Technical Memorandum

To: Doug Durden, Hydrologist IV, Resource Evaluation & Modeling
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Through: Tammy Bader, Technical Program Manager, Water Use Planning

Subject: Generating Alabama, Georgia and South Carolina Block Level Population

Water Demand Projections

Date: July 20, 2015

Introduction

The SJRWMD and SRWMD (Districts) develop water demand projections to satisfy the need to determine existing legal uses, anticipated future needs, and existing and reasonably anticipated sources of water and conservation efforts. Historically, the Districts typically only project future needs for areas within their jurisdictional boundaries. However, the North Florida Southeast Georgia groundwater flow model boundaries extend into Alabama, Georgia and South Carolina. At the time of this technical memorandum development, projections were unavailable for these areas outside of the Districts' jurisdictional boundary. An imperative part of projecting future water demands is to first project future population. This technical memorandum details the source and development of the population projections at the Census Block level for Alabama, Georgia and South Carolina.

Data Sources

- 1) County level projections from 2015 through 2040 were obtained from Woods and Poole.
 - a. Woods and Poole is an independent company that specializes in long term economic and demographic projections. Each year, the company publishes, for purchase, county-level population projections for all states in the United States.
 - b. Source 2014 Complete Economic and Demographic Data Source (CEDDS). CD-ROM. Woods & Poole Economics, Inc. Copyright 2014. Washington, DC. www.woodsandpoole.com.
- 2) 2010 Block-level and county-level total population were obtained from the Census¹.
 - a. Every ten years, upon completion of the U.S. Census, the U.S. Census Bureau publishes geodatabases that contain population estimates at the census block level.
 - b. Source United States Census Bureau. 2010 Census. U.S. Census Bureau. 2010. Web. February 13, 2015. http://www.census.gov/2010census/data.
- 3) 2010 County-level per capita consumption rates by source by category were calculated from the 2010 United States Geological Service (USGS) water use data.
 - a. The USGS publishes annual county-level water use every 5 years.

b. Source - Estimated Use of Water in the United States County-Level Data for 2010. http://water.usgs.gov/watuse/data/2010/index.html

Tasks

The following tasks were identified to assist in the development of water demand projections:

- 1) Need to estimate the share of the 2015 through 2040 Woods and Poole county-level population projections for census blocks in Alabama, Georgia, and South Carolina.
- 2) Calculate the per capita gallons per day by county by source by category from the 2010 USGS water use data.
- 3) Multiply the population share by the per capita gallons per day to obtain block-level water use projections by source by category.

Analytical Tools Used

Countywide per capita rates from USGS data were computed in Excel. The merge of the USGS-based per capita data and the 2010 Census block-level data and related calculations were done in SAS. Please see Appendix A for the script details.

Per capita rate is defined as total water use (including residential and non-residential uses) divided by estimated population. The per capita rate (in gallons per capita per day or gpcd) represents on average how much water one person would use in a day. The per capita water use rate is the factor applied to projected population to project water demand.

Distributing 2015-2040 Population Projections

Below is an example of the procedure used to distribute the population projections by county to each census block. Census block 1008, tract 10100 in Jefferson County, Alabama serves as the example.

- 1) Obtain the 2010 population for this block from the 2010 Census: 196 persons
- 2) Obtain the 2010 population for Jefferson County from the 2010 Census: 658,466 persons
- 3) Calculate the share of the county population residing in the Block 1008: 196 / 658,466 = 0.0298%.
- 4) Multiply the share of population by the county-level projection. See Table 1 below for details.

Table 1. Share of Population Projection in Block 1008, Tract 10100, in Jefferson County, Alabama.

mabama.													
	2010												
	Census	Woods and Poole Projections											
	Estimate		, and the second										
	2010	2015	2020	2025	2030	2035	2040						
Jefferson													
County,													
Alabama	658,466	665,859	673,365	678,678	681,154	680,776	678,034						
Share of													
the													
Estimated													
for Block													
1008, in													
Tract													
10100	196	198	200	202	203	203	202						

Calculating Block-Level Projected Water Demand by Source and Category

As discussed, a per capita water use rate is the factor applied to projected population to project water demand. Consumption rates in gallons per person per day were calculated by source by category from 2010 USGS published data. Consumption rates were calculated by dividing the estimated 2010 water use by the county total population.

For example, the 2010 consumption rate for groundwater in Jefferson County, Alabama, was calculated by dividing the 2010 estimated water use into the 2010 estimated population:

12,830,000 gallons per day/652,418 persons = 19.67 gallons per person per day

See Table 2 for per capita consumption rates by category by source for Jefferson County.

Table 2. Per capita consumption rates by category by source for Jefferson County, Alabama

Alaballia	T	ı	
		2010	
		Water	2010
		Use in	Water
		Millions	Use in
		of	Gallons
Variable	D 0 111	Gallons	per
Name	Definition	per day	Person
PS-WGWFr	Public Supply, groundwater withdrawals, fresh	8.45	12.83
PS-WGWTo	Public Supply, groundwater withdrawals, total	8.45	12.83
PS-WSWFr	Public Supply, surface-water withdrawals, fresh	67.41	102.37
PS-WSWTo	Public Supply, surface-water withdrawals, total	67.41	102.37
PS-WFrTo	Public Supply, total withdrawals, fresh	75.86	115.21
PS-Wtotl	Public Supply, total withdrawals, total (fresh+saline)	75.86	115.21
DO-WGWFr	Domestic, self-supplied groundwater withdrawals, fresh	0.46	0.70
DO-WFrTo	Domestic, total self-supplied withdrawals, fresh	0.46	0.70
DO-PSDel	Domestic, deliveries from Public Supply	56.28	85.47
DO-TOTAL	Domestic, total use (withdrawals + deliveries)	56.74	86.17
DOTOTAL	Industrial, self-supplied groundwater withdrawals,	30.71	00.17
IN-WGWFr	fresh	0.50	0.76
	Industrial, self-supplied groundwater withdrawals,		
IN-WGWTo	total	0.50	0.76
IN-WFrTo	Industrial, self-supplied total withdrawals, fresh	0.50	0.76
	Industrial, self-supplied total withdrawals, total		
IN-Wtotl	(fresh+saline)	0.50	0.76
IR-WGWFr	Irrigation, groundwater withdrawals, fresh	0.01	0.02
IR-WSWFr	Irrigation, surface-water withdrawals, fresh	2.47	3.75
IR-WFrTo	Irrigation, total withdrawals, fresh	2.48	3.77
IC-WGWFr	Irrigation-Crop, groundwater withdrawals, fresh	0.01	0.02
IC-WSWFr	Irrigation-Crop, surface-water withdrawals, fresh	0.09	0.14
IC-WFrTo	Irrigation-Crop, total withdrawals, fresh	0.10	0.15
IG-WSWFr	Irrigation-Golf, surface-water withdrawals, fresh	2.38	3.61
IG-WFrTo	Irrigation-Golf, total withdrawals, fresh	2.38	3.61
LI-WGWFr	Livestock, groundwater withdrawals, fresh	0.03	0.05
LI-WSWFr	Livestock, surface-water withdrawals, fresh	0.04	0.06
LI-WFrTo	Livestock, total withdrawals, fresh	0.07	0.11
AQ-WGWFr	Aquaculture, groundwater withdrawals, fresh	0.01	0.02
Q-WGWTo	Aquaculture, groundwater withdrawals, total	0.01	0.02
<u> </u>	11	0.01	3.02

Table 2, continued. Per capita consumption rates by category by source for Jefferson							
County, Alaba	ma I	2010					
		Water	2010				
		Use in	Water				
		Millions	Use in				
		of	Gallons				
Variable		Gallons	per				
Name	Definition	per day	Person				
AQ-WSWFr	Aquaculture, surface-water withdrawals, fresh	0.45	0.68				
AQ-WSWTo	Aquaculture, surface-water withdrawals, total	0.45	0.68				
AQ-WFrTo	Aquaculture, total withdrawals, fresh	0.46	0.70				
AQ-WTotl	Aquaculture, total withdrawals, total (fresh+saline)	0.46	0.70				
MI-WGWFr	Mining, groundwater withdrawals, fresh	0.85	1.29				
MI-WGWTo	Mining, groundwater withdrawals, total	0.85	1.29				
MI-WSWFr	Mining, surface-water withdrawals, fresh	0.65	0.99				
MI-WSWTo	Mining, surface-water withdrawals, total	0.65	0.99				
MI-WFrTo	Mining, total withdrawals, fresh	1.50	2.28				
MI-Wtotl	Mining, total withdrawals, total (fresh+saline)	1.50	2.28				
TO-WGWFr	Total groundwater withdrawals, fresh	10.31	15.66				
TO-WGWTo	Total groundwater withdrawals, total (fresh+saline)	10.31	15.66				
TO-WSWFr	Total surface-water withdrawals, fresh	71.02	107.86				
	Total surface-water withdrawals, total						
TO-WSWTo	(fresh+saline)	71.02	107.86				
TO-WFrTo	Total withdrawals, fresh	81.33	123.51				
TO-WTotl	Total withdrawals, total (fresh+saline)	81.33	123.51				

Per capita consumption rates obtained from Table 2 were then multiplied by the block-level projected population.

Example: 2040 projected public supply groundwater use is expected to be 2,591 gallons per day (202 persons times 12.83 gallons per day). See Table 3 for the 2015-2040 projected water use by category by source for Block 1008, Tract 10100, in Jefferson County, Alabama.

Table 3. Projected water use by category by source for Block 1008, Tract 10100, in Jefferson County, Alabama

,	ea water use by categor	2010	2010	Estimated			, , , , , , , , , , , , , , , , , , ,			
		Water	Estimated	Gallons		Pro	jected Ga	llons per	Day	
		Use	Water	Per Day						
Variable Name	Definition	(Millions	Use per							
		of	person	2010	2015	2020	2025	2030	2035	2040
		Gallons	(Gallons	2010	2013	2020	2023	2030	2033	2010
		per Day)	per Day)							
	Public Supply,									
	groundwater									
PS-WGWFr	withdrawals, fresh	8.45	12.83	2,515	2,543	2,572	2,592	2,602	2,600	2,590
	Public Supply,									
	surface-water									
PS-WSWFr	withdrawals, fresh	67.41	102.37	20,065	20,291	20,519	20,681	20,757	20,745	20,662
	Public Supply, total									
DO VIV.	withdrawals, total		44 704	00 = 04	20.004		00 0 = 4	000=0	22.246	00.000
PS-Wtotl	(fresh+saline)	75.86	115.21	22,581	22,834	23,092	23,274	23,359	23,346	23,252
	Domestic, total self-									
D 0 1117 F	supplied	0.16	0.50	40-	100	4.40		4.40	4.40	4.44
DO-WFrTo	withdrawals, fresh	0.46	0.70	137	138	140	141	142	142	141
Do Dan I	Domestic, deliveries	-	0-1-	46	46040	4 - 404	4-04-	4 = 000	4 - 000	4-0-0
DO-PSDel	from Public Supply	56.28	85.47	16,752	16,940	17,131	17,267	17,330	17,320	17,250
	Domestic, total use									
DO MOMAI	(withdrawals +		0645	46000	45.050	45.054	45 400	45.454	45.460	45.004
DO-TOTAL	deliveries)	56.74	86.17	16,889	17,079	17,271	17,408	17,471	17,462	17,391
	Industrial, self-									
	supplied total									
YNY YAY1	withdrawals, total	0.50	0.54	4.40	454	450	450	454	454	450
IN-Wtotl	(fresh+saline)	0.50	0.76	149	151	152	153	154	154	153
	Irrigation,									
ID MACHAE	groundwater	0.04	0.00		_	_	_	_		
IR-WGWFr	withdrawals, fresh	0.01	0.02	3	3	3	3	3	3	3

	Irrigation, surface-									
	water withdrawals,									
IR-WSWFr	fresh	2.47	3.75	735	743	752	758	761	760	757
	Irrigation, total									
IR-WFrTo	withdrawals, fresh	2.48	3.77	738	746	755	761	764	763	760
	Irrigation-Crop,									
	groundwater									
IC-WGWFr	withdrawals, fresh	0.01	0.02	3	3	3	3	3	3	3
	Irrigation-Crop, surface-water									
IC-WSWFr	withdrawals, fresh	0.09	0.14	27	27	27	28	28	28	28
	Irrigation-Crop, total									
IC-WFrTo	withdrawals, fresh	0.10	0.15	30	30	30	31	31	31	31
	Irrigation-Golf, total									
IG-WFrTo	withdrawals, fresh	2.38	3.61	708	716	724	730	733	732	729
	Livestock,									
	groundwater									
LI-WGWFr	withdrawals, fresh	0.03	0.05	9	9	9	9	9	9	9
	Livestock, surface-									
	water withdrawals,									
LI-WSWFr	fresh	0.04	0.06	12	12	12	12	12	12	12
	Livestock, total									
LI-WFrTo	withdrawals, fresh	0.07	0.11	21	21	21	21	22	22	21
	Aquaculture,									
	groundwater									
AQ-WGWTo	withdrawals, total	0.01	0.02	3	3	3	3	3	3	3
	Aquaculture,									
	surface-water									
AQ-WSWTo	withdrawals, total	0.45	0.68	134	135	137	138	139	138	138
	Aquaculture, total									
	withdrawals, total	_	_							
AQ-WTotl	(fresh+saline)	0.46	0.70	137	138	140	141	142	142	141

NAL VALCVALED	Mining, groundwater	0.05	1.00	252	25.0	250	261	262	262	261
MI-WGWTo	withdrawals, total	0.85	1.29	253	256	259	261	262	262	261
	Mining, surface-									
	water withdrawals,									
MI-WSWTo	total	0.65	0.99	193	196	198	199	200	200	199
	Mining, total									
	withdrawals, total									
MI-Wtotl	(fresh+saline)	1.50	2.28	446	452	457	460	462	462	460
	Total groundwater									
	withdrawals, total									
TO-WGWTo	(fresh+saline)	10.31	15.66	3,069	3,103	3,138	3,163	3,175	3,173	3,160
	Total surface-water									
	withdrawals, total									
TO-WSWTo	(fresh+saline)	71.02	107.86	21,140	21,377	21,618	21,789	21,868	21,856	21,768
	Total withdrawals,									
TO-WTotl	total (fresh+saline)	81.33	123.51	24,209	24,481	24,757	24,952	25,043	25,029	24,928

Quality Assurance

Quality assurance checks were performed to ensure that the sum of the block-level projections shares was equal to the county-level projection. Moreover, it was also checked that the sum of the water use shares added up to the county total for that category.

Creation of Geographic Information System Layers

Census block polygons for Alabama, Georgia and South Carolina were downloaded from the Census Bureau's internet site (2014 TIGER/Line® Shapefiles and TIGER/Line® Files, US Census Bureau) (ftp://ftp2.census.gov/geo/tiger/TIGER2014/TABBLOCK/). The excel file with the population estimates and projections was merged with the polygons downloaded using the unique Block identification number (GEOID10).

The following process occurred:

- 1. Initial issues with GEOID10 being converted to number in the case of Alabama, dropping the leading zero had to be resolved.
- 2. This issue lead to a Table to Table conversion.
- 3. During the conversion, the format of GEOID10 from text to numeric with 15 spaces was performed.
- 4. A leading zero was added to the GEOID10 of the census blocks in Alabama.
- 5. The corrected datasets were saved inside a geodatabase.
- 6. The Excel table was tied to the polygons and saved as a new geodatabase file.

Deliverables

Three GIS layers were created:

- 1) AL CensusBlocks 20102040 Population WaterUse
- 2) GA_CensusBlocks_20102040_Population_WaterUse
- 3) SC_CensusBlocks_20102040_Population_WaterUse

These files are found in this geodatabase:

H:\rm\WSM\NFRWSP\ALGASC_BlockLevel_Population_WaterUse_Projections_13JUL2015. gdb.

See Appendix B for a list of variables and their definitions. The table in this Appendix was also included in the metadata.

Appendices

Appendix A. SAS program used to calculate the AL GA SC Block Level Shares from Woods & Poole County Projections Published 2014

Appendix B. List of fields and definitions in the following GIS layer

Appendix A. SAS program used to calculate the AL GA SC Block Level Shares from Woods & Poole County Projections Published 2014 $\,$

Source file: H:\rm\WSM\NFRWSP\Data\Distributing Population and Water Use
Projections AL GA SC Census Blocks.sas
/**
/** Distributing Population and Water Use Projections AL GA SC Census Blocks.sas
 **
/*This program the percent of each county population that resides in each block*/ /*These shares are in turn multiplied by county-level population projections published by Woods and Poole in 2014 The projected population are then multiplied by per capita rates from the 2010 water use report to obtain water use projection by source by category*/
/*Importing Block Level Census Variables for Alabama*/ PROC IMPORT OUT = AL_P16P18P42P44H1H5
DATAFILE="H:\rm\WSM\NFRWSP\Data\AL_P16P18P42P44H1H5.xlsx" DBMS=EXCEL REPLACE; RUN;
/*Importing Block Level Census Variables for Georgia*/
PROC IMPORT OUT = GA_P16P18P42P44H1H5 DATAFILE="
H:\rm\WSM\NFRWSP\Data\GA_P16P18P42P44H1H5.xlsx" DBMS=EXCEL REPLACE; RUN/*Importing Block Level Census Variables for South Carolina*/
PROC IMPORT OUT = SC_P16P18P42P44H1H5 DATAFILE="
H:\rm\WSM\NFRWSP\Data\SC_P16P18P42P44H1H5.xlsx" DBMS=EXCEL REPLACE; RUN;
/*Importing 2014 Woods and Poole Total Population Projections by County*/
PROC IMPORT OUT = WP2014_POP DATAFILE=" H:\rm\WSM\NFRWSP\Data\2014
Woods Poole Total Population Projections by County AL GA SC.csv" DBMS=CSV REPLACE; RUN;
/*Per Capita consumption calculated from 2010 USGS County-level water use estimates*/
PROC IMPORT OUT = AL_USGS DATAFILE=" H:\rm\WSM\NFRWSP\Data\Alabama 2010
Per Capita Calculated from 2010 USGS Data.csv" DBMS=CSV REPLACE; RUN;
PROC IMPORT OUT = GA_USGS DATAFILE=" H:\rm\WSM\NFRWSP\Data\Georgia 2010
Per Capita Calculated from 2010 USGS Data.csv" DBMS=CSV REPLACE; RUN;
PROC IMPORT OUT = SC_USGS DATAFILE=" H:\rm\WSM\NFRWSP\Data\South Carolina
2010 Per Capita Calculated from 2010 USGS Data.csv" DBMS=CSV REPLACE; RUN;
/*Isolating Block-level 2010 Census data*/ DATA AL_BLOCK(where=(SUMLEV='101')); SET AL_P16P18P42P44H1H5;

```
/*Generating GEOID for merging with block polygons*/
GEOID10 = STATE||COUNTY||TRACT||BLOCK;
/*Generating Unique State County ID in preparation for later table mergers*/
CHAR STATECOUNTY=STATE||COUNTY;
STATECOUNTY=INPUT(CHAR_STATECOUNTY,6.);
/*Renaming population and housing variables*/
BLOCK POP100= POP100;
BLOCK_HU100= HU100;
KEEP
SUMLEV
            /*Block Summary Level = 101*/
                   /*Logical Record Number*/
LOGRECNO
             /*State ID*/
STATE
COUNTY
                  /*County ID*/
             /*Tract ID*/
TRACT
            /*Block ID*/
BLOCK
            /*ZIP Code ID*/
ZCTA5
                         /*Block-level Total Population*/
BLOCK_POP100
BLOCK HU100
                         /*Block-level Total Housing Units*/
STATECOUNTY
GEOID10;
RUN;
DATA GA_BLOCK(where=(SUMLEV='101'));
SET GA_P16P18P42P44H1H5;
/*Generating GEOID for merging with block polygons*/
GEOID10 = STATE||COUNTY||TRACT||BLOCK;
/*Generating Unique State County ID in preparation for later table mergers*/
CHAR_STATECOUNTY=STATE||COUNTY;
STATECOUNTY=INPUT(CHAR_STATECOUNTY, 6.);
/*Renaming population and housing variables*/
BLOCK_POP100= POP100;
BLOCK_HU100= HU100;
KEEP
            /*Block Summary Level = 101*/
SUMLEV
                  /*Logical Record Number*/
LOGRECNO
             /*State ID*/
STATE
                   /*County ID*/
COUNTY
             /*Tract ID*/
TRACT
            /*Block ID*/
BLOCK
            /*ZIP Code ID*/
ZCTA5
BLOCK_POP100
                         /*Block-level Total Population*/
                         /*Block-level Total Housing Units*/
BLOCK HU100
```

```
STATECOUNTY
GEOID10;
RUN;
DATA SC_BLOCK(where=(SUMLEV='101'));
SET SC P16P18P42P44H1H5;
/*Generating GEOID for merging with block polygons*/
GEOID10 = STATE||COUNTY||TRACT||BLOCK;
/*Generating Unique State County ID in preparation for later table mergers*/
CHAR_STATECOUNTY=STATE||COUNTY;
STATECOUNTY=INPUT(CHAR_STATECOUNTY,6.);
/*Renaming population and housing variables*/
BLOCK_POP100= POP100;
BLOCK_HU100= HU100;
KEEP
SUMLEV
            /*Block Summary Level = 101*/
                  /*Logical Record Number*/
LOGRECNO
STATE
             /*State ID*/
                  /*County ID*/
COUNTY
             /*Tract ID*/
TRACT
            /*Block ID*/
BLOCK
            /*ZIP Code ID*/
ZCTA5
                         /*Block-level Total Population*/
BLOCK POP100
BLOCK HU100
                         /*Block-level Total Housing Units*/
STATECOUNTY
GEOID10;
RUN:
/*Isolating County-level 2010 Census data*/
DATA AL_COUNTY(where=(SUMLEV='050'));
SET AL P16P18P42P44H1H5;
/*Generating Unique State County ID in preparation for later table mergers*/
CHAR STATECOUNTY=STATE||COUNTY:
STATECOUNTY=INPUT(CHAR_STATECOUNTY, 6.);
/*Renaming population and housing variables*/
COUNTY_POP100= POP100;
COUNTY HU100= HU100:
KEEP
            /*Block Summary Level = 101*/
SUMLEV
                  /*Logical Record Number*/
LOGRECNO
             /*State ID*/
STATE
COUNTY
                  /*County ID*/
COUNTY_POP100
                         /*County-level Total Population*/
                         /*County-level Total Housing Units*/
COUNTY HU100
```

```
STATECOUNTY;
RUN;
DATA GA_COUNTY(where=(SUMLEV='050'));
SET GA P16P18P42P44H1H5;
/*Generating Unique State County ID in preparation for later table mergers*/
CHAR STATECOUNTY=STATE||COUNTY;
STATECOUNTY=INPUT(CHAR_STATECOUNTY,6.);
/*Renaming population and housing variables*/
COUNTY POP100= POP100;
COUNTY_HU100= HU100;
KEEP
SUMLEV
           /*Block Summary Level = 101*/
                  /*Logical Record Number*/
LOGRECNO
            /*State ID*/
STATE
                  /*County ID*/
COUNTY
COUNTY_POP100
                        /*County-level Total Population*/
COUNTY HU100
                        /*County-level Total Housing Units*/
STATECOUNTY;
RUN:
DATA SC COUNTY(where=(SUMLEV='050'));
SET SC P16P18P42P44H1H5;
/*Generating Unique State County ID in preparation for later table mergers*/
CHAR_STATECOUNTY=STATE||COUNTY;
STATECOUNTY=INPUT(CHAR STATECOUNTY,6.);
/*Renaming population and housing variables*/
COUNTY POP100= POP100;
COUNTY_HU100= HU100;
KEEP
SUMLEV
            /*Block Summary Level = 101*/
                  /*Logical Record Number*/
LOGRECNO
            /*State ID*/
STATE
COUNTY
                  /*County ID*/
                        /*County-level Total Population*/
COUNTY POP100
COUNTY_HU100
                        /*County-level Total Housing Units*/
STATECOUNTY;
RUN;
```

```
/*Calculating projected population and water use by category by source for Alabama*/
PROC SQL NOPRINT;
CREATE TABLE AL SHARES AS
SELECT DISTINCT A.*, COUNTY_POP100, COUNTY_HU100,
/*Calculating the percent of total county population residing in each block*/
BLOCK POP100/COUNTY POP100 AS BLOCK POP SHARE,
BLOCK HU100/COUNTY HU100 AS BLOCK HU SHARE,
_2015, _2020, _2025, _2030, _2035, _2040,
/*Multiplying the share of population in the block times the Woods and Poole projections*/
CALCULATED BLOCK_POP_SHARE*_2015 AS BLOCK_PROJ_2015,
CALCULATED BLOCK POP SHARE* 2020 AS BLOCK PROJ 2020,
CALCULATED BLOCK_POP_SHARE*_2025 AS BLOCK_PROJ_2025,
CALCULATED BLOCK POP SHARE* 2030 AS BLOCK PROJ 2030.
CALCULATED BLOCK POP SHARE* 2035 AS BLOCK PROJ 2035,
CALCULATED BLOCK POP SHARE* 2040 AS BLOCK PROJ 2040,
/*Adding per capita consumption rates caculated from 2010 USGS County-level water use
estimates*/
                   Public Supply, total population served, in thousands
PS TOPop
PS WGWFr
                   Public Supply, groundwater withdrawals, fresh, in Mgal/d
PS WGWSa
                   Public Supply, groundwater withdrawals, saline, in Mgal/d
PS WGWTo
                   Public Supply, groundwater withdrawals, total, in Mgal/d
PS WSWFr
                   Public Supply, surface-water withdrawals, fresh, in Mgal/d
PS_WSWSa
                   Public Supply, surface-water withdrawals, saline, in Mgal/d
PS_WSWTo
                   Public Supply, surface-water withdrawals, total, in Mgal/d
                                                                             */
PS_WFrTo
                   Public Supply, total withdrawals, fresh, in Mgal/d*/
                   Public Supply, total withdrawals, saline, in Mgal/d
PS_WSaTo
PS_Wtotl
                   Public Supply, total withdrawals, total (fresh+saline), in Mgal/d
      */
DO_WGWFr
                   Domestic, self-supplied groundwater withdrawals, fresh, in Mgal/d
DO WSWFr
                   Domestic, self-supplied surface-water withdrawals, fresh, in Mgal/d
```

```
/*
                    Domestic, total self-supplied withdrawals, fresh, in Mgal/d
                                                                                   */
DO_WFrTo
DO PSDel
                    Domestic, deliveries from Public Supply, in Mgal/d
                    Domestic, publicly supplied per capita use, in gallons/day [DO-
DO_PSPCp
PSDel/PS-TOPopl
                    */
                    Domestic, total use (withdrawals + deliveries)
DO TOTAL
                    Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d
IN_WGWFr
                    Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d
IN_WGWSa
                    Industrial, self-supplied groundwater withdrawals, total, in Mgal/d
IN_WGWTo
IN_WSWFr
                    Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d
                    Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d
IN WSWSa
                    Industrial, self-supplied surface-water withdrawals, total, in Mgal/d
IN_WSWTo
                    Industrial, self-supplied total withdrawals, fresh, in Mgal/d
                                                                                   */
IN_WFrTo
IN_WSaTo
                    Industrial, self-supplied total withdrawals, saline, in Mgal/d
              /*
                                                                                   */
                    Industrial, self-supplied total withdrawals, total (fresh+saline), in
IN Wtotl
Mgal/d
IR_WGWFr
                    Irrigation, groundwater withdrawals, fresh, in Mgal/d
IR WSWFr
                    Irrigation, surface-water withdrawals, fresh, in Mgal/d */
                    Irrigation, total withdrawals, fresh, in Mgal/d
IR_WFrTo
              /*
                    Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d
IC_WGWFr
              /*
IC_WSWFr
                    Irrigation-Crop, surface-water withdrawals, fresh, in Mgal/d
                                                                                   */
IC_WFrTo
                    Irrigation-Crop, total withdrawals, fresh, in Mgal/d
              /*
                                                                           */
IG_WGWFr
                    Irrigation-Golf, groundwater withdrawals, fresh, in Mgal/d
              /*
                                                                                   */
IG_WSWFr
                    Irrigation-Golf, surface-water withdrawals, fresh, in Mgal/d
              /*
                                                                                   */
```

```
/*
                    Irrigation-Golf, total withdrawals, fresh, in Mgal/d
                                                                         */
IG_WFrTo
LI_WGWFr
                    Livestock, groundwater withdrawals, fresh, in Mgal/d
                    Livestock, surface-water withdrawals, fresh, in Mgal/d */
LI WSWFr
                    Livestock, total withdrawals, fresh, in Mgal/d
LI WFrTo
                    Aquaculture, groundwater withdrawals, fresh, in Mgal/d
AQ_WGWFr
AQ_WGWSa
                    Aquaculture, groundwater withdrawals, saline, in Mgal/d
AQ_WGWTo
                    Aquaculture, groundwater withdrawals, total, in Mgal/d*/
                    Aquaculture, surface-water withdrawals, fresh, in Mgal/d
AQ_WSWFr
AQ WSWSa
                    Aquaculture, surface-water withdrawals, saline, in Mgal/d
              /*
AQ_WSWTo
                    Aquaculture, surface-water withdrawals, total, in Mgal/d
                                                                                */
AQ WFrTo
                    Aquaculture, total withdrawals, fresh, in Mgal/d */
AQ_WSaTo
                    Aquaculture, total withdrawals, saline, in Mgal/d */
AQ_WTotl
                    Aquaculture, total withdrawals, total (fresh+saline), in Mgal/d */
                    Mining, groundwater withdrawals, fresh, in Mgal/d
MI WGWFr
                    Mining, groundwater withdrawals, saline, in Mgal/d
MI_WGWSa
                                                                         */
                    Mining, groundwater withdrawals, total, in Mgal/d
MI_WGWTo
MI WSWFr
                    Mining, surface-water withdrawals, fresh, in Mgal/d
                    Mining, surface-water withdrawals, saline, in Mgal/d
MI_WSWSa
                                                                         */
                    Mining, surface-water withdrawals, total, in Mgal/d
MI_WSWTo
MI_WFrTo
                    Mining, total withdrawals, fresh, in Mgal/d
                                                                   */
MI_WSaTo
                    Mining, total withdrawals, saline, in Mgal/d
                    Mining, total withdrawals, total (fresh+saline), in Mgal/d
                                                                                */
MI_Wtotl
PT_WGWFr
                    Thermoelectric, groundwater withdrawals, fresh, in Mgal/d
             /*
PT WGWSa
                    Thermoelectric, groundwater withdrawals, saline, in Mgal/d
                                                                                */
PT_WGWTo
                    Thermoelectric, groundwater withdrawals, total, in Mgal/d
                                                                                */
PT WSWFr
                    Thermoelectric, surface-water withdrawals, fresh, in Mgal/d
                                                                                */
PT_WSWSa
                    Thermoelectric, surface-water withdrawals, saline, in Mgal/d
                                                                                */
PT_WSWTo
                    Thermoelectric, surface-water withdrawals, total, in Mgal/d
                                                                                */
```

PT_WFrTo	/*	Thermoelectric, total withdrawals, fresh, in Mgal/d */ ,
PT_WSaTo	/*	Thermoelectric, total withdrawals, saline, in Mgal/d */ ,
PT_Wtotl	/*	Thermoelectric, total withdrawals, total (fresh+saline), in Mgal/d
*/	,	
PT_Power	/*	Thermoelectric, power generated, in gigawatt-hours */ ,
PO_WGWFr	/*	Thermoelectric once-through, groundwater withdrawals, fresh, in
Mgal/d	*/	,
PO_WGWSa	/*	Thermoelectric once-through, groundwater withdrawals, saline, in
Mgal/d	*/	,
PO_WGWTo	/*	Thermoelectric once-through, groundwater withdrawals, total, in
Mgal/d	*/	,
PO_WSWFr	/*	Thermoelectric once-through, surface-water withdrawals, fresh, in
Mgal/d	*/	,
PO_WSWSa	/*	Thermoelectric once-through, surface-water withdrawals, saline, in
Mgal/d	*/	,
PO_WSWTo	/*	Thermoelectric once-through, surface-water withdrawals, total, in
Mgal/d	*/	,
PO_WFrTo	/*	Thermoelectric once-through, total withdrawals, fresh, in Mgal/d
*/	,	
PO_WSaTo	/*	Thermoelectric once-through, total withdrawals, saline, in Mgal/d
*/	,	
PO_WTotl	/*	Thermoelectric once-through, total withdrawals, total, in Mgal/d
*/	,	
PO_Power	/*	Thermoelectric once-through, power generated, in gigawatt-hours
*/	,	
PC_WGWFr	/*	Thermoelectric recirculation, groundwater withdrawals, fresh, in
Mgal/d	*/	,
PC_WGWSa	/*	Thermoelectric recirculation, groundwater withdrawals, saline, in
Mgal/d	*/	,
PC_WGWTo	/*	Thermoelectric recirculation, groundwater withdrawals, total, in
Mgal/d	*/	,
PC_WSWFr	/*	Thermoelectric recirculation, surface-water withdrawals, fresh, in
Mgal/d	*/	,
PC_WSWSa	/*	Thermoelectric recirculation, surface-water withdrawals, saline, in
Mgal/d	*/	,
PC_WSWTo	/*	Thermoelectric recirculation, surface-water withdrawals, total, in
Mgal/d	*/	,
PC_WFrTo	/*	Thermoelectric recirculation, total withdrawals, fresh, in Mgal/d
*/	,	
PC_WSaTo	/*	Thermoelectric recirculation, total withdrawals, saline, in Mgal/d
*/	,	
PC_WTotl	/*	Thermoelectric recirculation, total withdrawals, total (fresh+saline),
in Mgal/d	*/	,
PC_Power	/*	Thermoelectric recirculation, power generated, in gigawatt-hours
*/	,	

```
/*
                   Total groundwater withdrawals, fresh, in Mgal/d*/
TO_WGWFr
TO WGWSa
                   Total groundwater withdrawals, saline, in Mgal/d
TO_WGWTo
             /*
                   Total groundwater withdrawals, total (fresh+saline), in Mgal/d*/
TO_WSWFr
                   Total surface-water withdrawals, fresh, in Mgal/d
TO WSWSa
                   Total surface-water withdrawals, saline, in Mgal/d
TO WSWTo
                   Total surface-water withdrawals, total (fresh+saline), in Mgal/d
      */
                   Total withdrawals, fresh, in Mgal/d
TO WFrTo
TO WSaTo
                   Total withdrawals, saline, in Mgal/d
             /*
                   Total withdrawals, total (fresh+saline), in Mgal/d
TO WTotl
/*Multiplying consumption rates times 2010 block-level population to obtain 2010 water
use estimates*/
BLOCK POP100*
                   PS_WGWFr
                                AS
                                       Est PS WGWFr 2010
                                                                        2010 Block-
level population estimate times
                                 Public Supply, groundwater withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PS WGWSa
                                       Est PS WGWSa 2010
                                AS
                                                                        2010 Block-
level population estimate times
                                 Public Supply, groundwater withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK_POP100*
                   PS_WGWTo
                                AS
                                       Est_PS_WGWTo_2010
                                                                        2010 Block-
level population estimate times
                                 Public Supply, groundwater withdrawals, total, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PS WSWFr
                                       Est PS WSWFr 2010
                                AS
                                                                        2010 Block-
                                 Public Supply, surface-water withdrawals, fresh, in
level population estimate times
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PS WSWSa
                                AS
                                       Est PS WSWSa 2010
                                                                        2010 Block-
level population estimate times
                                 Public Supply, surface-water withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK_POP100*
                   PS_WSWTo
                                AS
                                       Est_PS_WSWTo_2010
                                                                        2010 Block-
level population estimate times
                                 Public Supply, surface-water withdrawals, total, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   PS_WFrTo
                                       Est_PS_WFrTo_2010 /*
                                                                 2010 Block-level
                                AS
population estimate times Public Supply, total withdrawals, fresh, in Mgal/dDivided by
Total Population (PS-TOPop)
                                 */,
BLOCK POP100*
                   PS WSaTo
                                AS
                                       Est PS WSaTo 2010 /*
                                                                 2010 Block-level
population estimate times Public Supply, total withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   PS_Wtotl
                                AS
                                       Est_PS_Wtotl_2010 /*
                                                                 2010 Block-level
population estimate times Public Supply, total withdrawals, total (fresh+saline), in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   DO WGWFr AS
                                       Est DO WGWFr 2010
                                                                        2010 Block-
level population estimate times
                                Domestic, self-supplied groundwater withdrawals,
```

Divided by Total Population (PS-TOPop) */,

fresh. in Mgal/d

```
BLOCK POP100*
                   DO WSWFr
                                AS
                                       Est DO WSWFr 2010
                                                                 /*
                                                                        2010 Block-
level population estimate times
                                Domestic, self-supplied surface-water withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   DO WFrTo
                                AS
                                       Est DO WFrTo 2010/*
                                                                 2010 Block-level
population estimate times Domestic, total self-supplied withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
```

BLOCK_POP100* DO_PSDel AS Est_DO_PSDel_2010 /* 2010 Block-level population estimate times Domestic, deliveries from Public Supply, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK POP100* Est DO TOTAL 2010/* DO TOTAL AS 2010 Block-level population estimate times Domestic, total use (withdrawals + deliveries) Divided by Total Population (PS-TOPop) */, BLOCK POP100* IN WGWFr AS Est IN WGWFr 2010 2010 Blocklevel population estimate times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* IN WGWSa Est IN WGWSa 2010 AS 2010 Blocklevel population estimate times Industrial, self-supplied groundwater withdrawals, saline. in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK_POP100* IN_WGWTo AS Est_IN_WGWTo_2010 2010 Blocklevel population estimate times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* IN_WSWFr Est IN WSWFr 2010/* AS 2010 Block-level population estimate times Industrial, self-supplied surface-water withdrawals, fresh, in Divided by Total Population (PS-TOPop) */, Mgal/d BLOCK POP100* IN WSWSa AS Est IN WSWSa 2010/* 2010 Block-level population estimate times Industrial, self-supplied surface-water withdrawals, saline, in Divided by Total Population (PS-TOPop) */, Mgal/d BLOCK_POP100* IN_WSWTo AS Est_IN_WSWTo_2010 2010 Blocklevel population estimate times Industrial, self-supplied surface-water withdrawals. total, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK_POP100* IN_WFrTo Est_IN_WFrTo_2010 /* AS 2010 Block-level population estimate times Industrial, self-supplied total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IN_WSaTo AS Est_IN_WSaTo_2010 /* 2010 Block-level population estimate times Industrial, self-supplied total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IN_Wtotl AS Est_IN_Wtotl_2010 /* 2010 Block-level population estimate times Industrial, self-supplied total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IR_WGWFr AS Est_IR_WGWFr_2010 /* 2010 Block-level population estimate times Irrigation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

- BLOCK_POP100* IR_WSWFr AS Est_IR_WSWFr_2010 /* 2010 Block-level population estimate times Irrigation, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IR_WFrTo AS Est_IR_WFrTo_2010 /* 2010 Block-level population estimate times Irrigation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IC_WGWFr AS Est_IC_WGWFr_2010/* 2010 Block-level population estimate times Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IC_WSWFr AS Est_IC_WSWFr_2010 /* 2010 Block-level population estimate times Irrigation-Crop, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IC_WFrTo AS Est_IC_WFrTo_2010 /* 2010 Block-level population estimate times Irrigation-Crop, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IG_WGWFr AS Est_IG_WGWFr_2010 /* 2010 Block-level population estimate times Irrigation-Golf, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IG_WSWFr AS Est_IG_WSWFr_2010 /* 2010 Block-level population estimate times Irrigation-Golf, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IG_WFrTo AS Est_IG_WFrTo_2010 /* 2010 Block-level population estimate times Irrigation-Golf, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* LI_WGWFr AS Est_LI_WGWFr_2010/* 2010 Block-level population estimate times Livestock, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* LI_WSWFr AS Est_LI_WSWFr_2010 /* 2010 Block-level population estimate times Livestock, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* LI_WFrTo AS Est_LI_WFrTo_2010 /* 2010 Block-level population estimate times Livestock, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
BLOCK POP100*
                   AO WGWFr AS
                                      Est AO WGWFr 2010
                                                                      2010 Block-
level population estimate times
                                Aquaculture, groundwater withdrawals, fresh, in
Mgal/d
            Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   AO WGWSa AS
                                      Est AO WGWSa 2010
                                                                      2010 Block-
level population estimate times
                                Aquaculture, groundwater withdrawals, saline, in
Mgal/d
            Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   AQ WGWTo AS
                                      Est AQ WGWTo 2010
                                                                      2010 Block-
level population estimate times
                                Aquaculture, groundwater withdrawals, total, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   AO WSWFr
                                      Est_AQ_WSWFr_2010
                                                                      2010 Block-
                                AS
level population estimate times
                                Aquaculture, surface-water withdrawals, fresh, in
Mgal/d
            Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   AO WSWSa
                               AS
                                      Est AO WSWSa 2010
                                                                      2010 Block-
level population estimate times
                                Aquaculture, surface-water withdrawals, saline, in
Mgal/d
            Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   AQ WSWTo AS
                                      Est AQ WSWTo 2010
                                                                      2010 Block-
level population estimate times
                                Aquaculture, surface-water withdrawals, total, in
Mgal/d
            Divided by Total Population (PS-TOPop) */.
BLOCK POP100*
                   AQ WFrTo
                                AS
                                      Est AQ WFrTo 2010/*
                                                                2010 Block-level
population estimate times Aquaculture, total withdrawals, fresh, in Mgal/d Divided by
Total Population (PS-TOPop)
                                */,
BLOCK POP100*
                                      Est AO WSaTo 2010/*
                   AO WSaTo
                                AS
                                                                2010 Block-level
population estimate times Aquaculture, total withdrawals, saline, in Mgal/d Divided by
Total Population (PS-TOPop)
                                */,
BLOCK POP100*
                                      Est A0 WTotl 2010 /*
                   AO WTotl
                                AS
                                                                2010 Block-level
population estimate times Aquaculture, total withdrawals, total (fresh+saline), in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   MI WGWFr
                                      Est MI WGWFr 2010
                                AS
                                                                      2010 Block-
                                Mining, groundwater withdrawals, fresh, in Mgal/d
level population estimate times
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   MI WGWSa
                                AS
                                      Est MI WGWSa 2010
                                                                      2010 Block-
level population estimate times
                                Mining, groundwater withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   MI WGWTo
                                      Est MI WGWTo 2010
                               AS
                                                                      2010 Block-
level population estimate times
                                Mining, groundwater withdrawals, total, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   MI_WSWFr
                                      Est_MI_WSWFr_2010
                                AS
                                                                      2010 Block-
level population estimate times
                                Mining, surface-water withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   MI WSWSa
                                      Est MI WSWSa 2010
                                AS
                                                                      2010 Block-
level population estimate times
```

Divided by Total Population (PS-TOPop) */,

Divided by Total Population (PS-TOPop) */,

AS

MI WSWTo

BLOCK POP100*

level population estimate times

Mining, surface-water withdrawals, saline, in Mgal/d

Mining, surface-water withdrawals, total, in Mgal/d

2010 Block-

Est MI WSWTo 2010

```
BLOCK POP100*
                                       Est MI WFrTo 2010 /*
                   MI WFrTo
                                AS
                                                                 2010 Block-level
population estimate times Mining, total withdrawals, fresh, in Mgal/d
                                                                       Divided by
Total Population (PS-TOPop)
                                */,
BLOCK POP100*
                   MI WSaTo
                                       Est MI WSaTo 2010 /*
                                                                 2010 Block-level
                                AS
population estimate times Mining, total withdrawals, saline, in Mgal/d
                                                                       Divided by
Total Population (PS-TOPop)
                                */,
BLOCK POP100*
                   MI Wtotl
                                AS
                                       Est MI Wtotl 2010 /*
                                                                2010 Block-level
population estimate times Mining, total withdrawals, total (fresh+saline), in Mgal/d
      Divided by Total Population (PS-TOPop) */.
                                       Est_PT_WGWFr_2010
BLOCK POP100*
                   PT WGWFr
                                AS
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, groundwater withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WGWSa
                                AS
                                       Est PT WGWSa 2010
level population estimate times
                                Thermoelectric, groundwater withdrawals, saline, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WGWTo AS
                                       Est PT WGWTo 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, groundwater withdrawals, total, in
Mgal/d
             Divided by Total Population (PS-TOPop) */.
BLOCK POP100*
                   PT WSWFr
                                AS
                                       Est PT WSWFr 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, surface-water withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WSWSa
                                AS
                                       Est PT WSWSa 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, surface-water withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PT WSWTo
                                       Est PT WSWTo 2010
                                AS
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, surface-water withdrawals, total, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
                   PT WFrTo
BLOCK POP100*
                                AS
                                       Est PT WFrTo 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric, total withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WSaTo
                                AS
                                       Est PT WSaTo 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric, total withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT Wtotl
                                AS
                                       Est PT Wtotl 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric, total withdrawals, total (fresh+saline), in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK_POP100*
                   PT_Power
                                       Est_PT_Power_2010 /*
                                                                 2010 Block-level
                                AS
population estimate times Thermoelectric, power generated, in gigawatt-hours
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PO WGWFr
                                       Est PO WGWFr 2010
                                                                       2010 Block-
                                AS
level population estimate times
                                Thermoelectric once-through, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PO WGWSa
                                AS
                                       Est PO WGWSa 2010
                                                                       2010 Block-
                                Thermoelectric once-through, groundwater
level population estimate times
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
```

```
BLOCK POP100*
                   PO WGWTo
                                       Est PO WGWTo 2010
                                                                        2010 Block-
                                AS
level population estimate times
                                Thermoelectric once-through, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                                       Est PO WSWFr 2010
                   PO WSWFr
                                                                        2010 Block-
                                Thermoelectric once-through, surface-water
level population estimate times
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                                       Est PO WSWSa 2010
                   PO WSWSa
                                                                        2010 Block-
                                Thermoelectric once-through, surface-water
level population estimate times
                                Divided by Total Population (PS-TOPop)
withdrawals, saline, in Mgal/d
                                                                        */,
BLOCK POP100*
                                       Est PO WSWTo 2010
                   PO WSWTo
                                                                        2010 Block-
                                Thermoelectric once-through, surface-water
level population estimate times
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
                                       Est_PO_WFrTo_2010 /*
BLOCK POP100*
                   PO WFrTo
                                AS
                                                                 2010 Block-level
population estimate times Thermoelectric once-through, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
                   PO WSaTo
BLOCK POP100*
                                AS
                                       Est PO WSaTo 2010/*
                                                                 2010 Block-level
population estimate times Thermoelectric once-through, total withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PO WTotl
                                AS
                                       Est PO WTotl 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric once-through, total withdrawals, total, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
                   PO Power
                                       Est PO Power 2010 /*
                                                                 2010 Block-level
BLOCK POP100*
                                AS
population estimate times Thermoelectric once-through, power generated, in gigawatt-
hours Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PC WGWFr
                                       Est PC WGWFr 2010
                                                                        2010 Block-
                                AS
level population estimate times
                                Thermoelectric recirculation, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                                       Est PC WGWSa 2010
                   PC WGWSa
                                AS
                                                                        2010 Block-
level population estimate times
                                Thermoelectric recirculation, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                   PC WGWTo
                                AS
                                       Est PC WGWTo 2010
                                                                        2010 Block-
level population estimate times
                                Thermoelectric recirculation, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                                       Est PC WSWFr 2010
                   PC WSWFr
                                AS
                                                                        2010 Block-
level population estimate times
                                Thermoelectric recirculation, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK_POP100*
                   PC_WSWSa
                                       Est_PC_WSWSa_2010
                                                                        2010 Block-
                                AS
level population estimate times
                                Thermoelectric recirculation, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                   PC WSWTo
                                       Est PC WSWTo 2010
                                AS
                                                                        2010 Block-
level population estimate times
                                Thermoelectric recirculation, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PC WFrTo
                                AS
                                       Est PC WFrTo 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric recirculation, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
```

```
BLOCK POP100*
                   PC WSaTo
                                AS
                                       Est_PC_WSaTo_2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric recirculation, total withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PC WTotl
                                AS
                                       Est PC WTotl 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric recirculation, total withdrawals, total
                          Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
BLOCK POP100*
                   PC Power
                                AS
                                       Est PC Power 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric recirculation, power generated, in gigawatt-
hours Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   TO WGWFr AS
                                       Est_TO_WGWFr_2010
                                                                       2010 Block-
level population estimate times
                                Total groundwater withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
                                       Est TO WGWSa 2010
BLOCK POP100*
                   TO WGWSa AS
                                                                       2010 Block-
level population estimate times
                                Total groundwater withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   TO WGWTo AS
                                       Est TO WGWTo 2010
                                                                       2010 Block-
level population estimate times
                                Total groundwater withdrawals, total (fresh+saline), in
             Divided by Total Population (PS-TOPop) */.
Mgal/d
BLOCK POP100*
                   TO WSWFr
                                AS
                                       Est TO WSWFr 2010
                                                                       2010 Block-
                                Total surface-water withdrawals, fresh, in Mgal/d
level population estimate times
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                                       Est TO WSWSa 2010
                   TO WSWSa
                                AS
                                                                       2010 Block-
level population estimate times
                                Total surface-water withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   TO WSWTo AS
                                       Est TO WSWTo 2010
                                                                       2010 Block-
level population estimate times
                                Total surface-water withdrawals, total (fresh+saline), in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                                                                 2010 Block-level
                   TO WFrTo
                                AS
                                       Est TO WFrTo 2010/*
population estimate times Total withdrawals, fresh, in Mgal/d
                                                                 Divided by Total
Population (PS-TOPop)
                          */,
BLOCK POP100*
                   TO WSaTo
                                AS
                                       Est TO WSaTo 2010/*
                                                                 2010 Block-level
population estimate times Total withdrawals, saline, in Mgal/d
                                                                 Divided by Total
Population (PS-TOPop)
                          */,
BLOCK POP100*
                   TO WTotl
                                AS
                                                                2010 Block-level
                                       Est TO WTotl 2010 /*
population estimate times Total withdrawals, total (fresh+saline), in Mgal/d
      Divided by Total Population (PS-TOPop) */,
```

/*Multiplying consumption rates times 2015 block-level population projection to obtain 2015 water use projection*/

CALCULATED BLOCK_PROJ_2015* PS_WGWFr AS Proj_PS_WGWFr_2015 /* 2015 Block-level population projection share times Public Supply, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK PROJ 2015* PS WGWSa AS
                                                   Proj PS WGWSa 2015
      2015 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* PS WGWTo AS
                                                   Proj PS WGWTo 2015
      2015 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2015* PS WSWFr AS
                                                   Proj PS WSWFr 2015
      2015 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* PS_WSWSa
                                             AS
                                                   Proj_PS_WSWSa_2015
                                                                             /*
      2015 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* PS_WSWTo AS
                                                   Proj_PS_WSWTo_2015
                                                                             /*
      2015 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* PS WFrTo
                                             AS
                                                   Proj PS WFrTo 2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Public Supply, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* PS WSaTo
                                             AS
                                                   Proj PS WSaTo 2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PS Wtotl
                                             AS
                                                   Proj PS Wtotl 2015 /*
                                                                              2015
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* DO_WGWFr AS
                                                   Proj DO WGWFr 2015
      2015 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* DO_WSWFr
                                             AS
                                                    Proj_DO_WSWFr_2015
      2015 Block-level population projection share times
                                                          Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* DO WFrTo
                                             AS
                                                   Proj DO WFrTo 2015
      2015 Block-level population projection share times
                                                          Domestic, total self-
supplied withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* DO_PSDel
                                             AS
                                                   Proj DO PSDel 2015/*
                                                                              2015
Block-level population projection share times
                                             Domestic, deliveries from Public Supply,
            Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2015* DO_TOTAL
                                                   Proj_DO_TOTAL_2015
                                             AS
      2015 Block-level population projection share times
                                                          Domestic, total use
(withdrawals + deliveries) Divided by Total Population (PS-TOPop) */,
```

CALCULATED BLOCK PROJ 2015* IN WGWFr AS Proj_IN_WGWFr_2015 2015 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2015* IN_WGWSa AS Proj_IN_WGWSa_2015 2015 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* IN_WGWTo AS Proj_IN_WGWTo_2015 2015 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* IN_WSWFr Proj IN WSWFr 2015 AS 2015 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* IN_WSWSa AS Proj_IN_WSWSa_2015 2015 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* IN_WSWTo AS Proj_IN_WSWTo_2015 2015 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2015* IN WFrTo Proj IN WFrTo 2015 AS 2015 Block-level population projection share times Industrial, self-supplied total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2015* IN WSaTo Proj IN WSaTo 2015 AS 2015 Block-level population projection share times Industrial, self-supplied total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2015* IN Wtotl Proj IN Wtotl 2015 /* 2015 Block-level population projection share times Industrial, self-supplied total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* IR_WGWFr AS Proj_IR_WGWFr_2015 2015 Block-level population projection share times Irrigation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* IR_WSWFr Proj_IR_WSWFr_2015 AS 2015 Block-level population projection share times Irrigation, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2015* IR WFrTo Proj IR WFrTo 2015 /* AS 2015 Block-level population projection share times Irrigation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK_PROJ_2015* IC_WGWFr
                                             AS
                                                    Proj_IC_WGWFr_2015
      2015 Block-level population projection share times
                                                          Irrigation-Crop,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* IC WSWFr
                                             AS
                                                    Proj IC WSWFr 2015
      2015 Block-level population projection share times
                                                          Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* IC_WFrTo
                                             AS
                                                    Proj_IC_WFrTo_2015/*
                                                                              2015
Block-level population projection share times
                                             Irrigation-Crop, total withdrawals, fresh,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2015* IG_WGWFr
                                             AS
                                                    Proj_IG_WGWFr_2015
      2015 Block-level population projection share times
                                                          Irrigation-Golf.
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* IG_WSWFr
                                             AS
                                                    Proj_IG_WSWFr_2015
      2015 Block-level population projection share times
                                                          Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* IG WFrTo
                                                    Proj IG WFrTo 2015
                                             AS
      2015 Block-level population projection share times
                                                          Irrigation-Golf, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROI 2015* LI WGWFr
                                             AS
                                                    Proj LI WGWFr 2015
      2015 Block-level population projection share times
                                                          Livestock, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* LI WSWFr
                                             AS
                                                    Proj LI WSWFr 2015
      2015 Block-level population projection share times
                                                          Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* LI_WFrTo
                                             AS
                                                    Proj_LI_WFrTo_2015/*
                                                                              2015
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* AQ WGWFr AS
                                                    Proj AQ WGWFr 2015
      2015 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* AO WGWSa AS
                                                    Proj AO WGWSa 2015
      2015 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2015* AO WGWTo AS
                                                   Proj AO WGWTo 2015
      2015 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* AQ WSWFr AS
                                                   Proj AQ WSWFr 2015
      2015 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* AQ WSWSa AS
                                                   Proj AQ WSWSa 2015
      2015 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* AO WSWTo AS
                                                   Proj AO WSWTo 2015
      2015 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2015* AQ_WFrTo
                                            AS
                                                   Proj AO WFrTo 2015
                                                                             /*
      2015 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* AQ WSaTo
                                            AS
                                                   Proj AQ WSaTo 2015
      2015 Block-level population projection share times
                                                          Aquaculture, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* AQ WTotl
                                             AS
                                                   Proj AQ WTotl 2015
                                                          Aquaculture, total
      2015 Block-level population projection share times
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* MI_WGWFr
                                            AS
                                                   Proj_MI_WGWFr_2015
      2015 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_WGWSa AS
                                                   Proj_MI_WGWSa_2015
      2015 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* MI WGWTo AS
                                                   Proj MI WGWTo 2015
      2015 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* MI WSWFr
                                                   Proj MI WSWFr 2015
                                            AS
      2015 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* MI_WSWSa
                                                   Proj_MI_WSWSa_2015
                                            AS
      2015 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* MI_WSWTo AS
                                                   Proj_MI_WSWTo_2015
      2015 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_WFrTo
                                                   Proj MI WFrTo 2015
                                             AS
      2015 Block-level population projection share times
                                                          Mining, total withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2015* MI_WSaTo
                                             AS
                                                   Proj_MI_WSaTo_2015
      2015 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* MI Wtotl
                                                   Proj MI Wtotl 2015 /*
                                                                             2015
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PT WGWFr
                                             AS
                                                   Proj PT WGWFr 2015
      2015 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* PT WGWSa
                                            AS
                                                   Proj PT WGWSa 2015
      2015 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* PT_WGWTo AS
                                                   Proj PT WGWTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* PT WSWFr
                                             AS
                                                   Proj PT WSWFr 2015
      2015 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2015
      2015 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* PT WSWTo AS
                                                   Proj PT WSWTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* PT WFrTo
                                                   Proj PT WFrTo 2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* PT WSaTo
                                             AS
                                                   Proj PT WSaTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PT Wtotl
                                             AS
                                                   Proj PT Wtotl 2015 /*
                                                                             2015
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PT_Power
                                             AS
                                                   Proj_PT_Power_2015
      2015 Block-level population projection share times
                                                          Thermoelectric, power
generated, in gigawatt-hours
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PO WGWFr AS
                                                   Proj PO WGWFr 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2015* PO WGWSa AS
                                                   Proj PO WGWSa 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
```

```
through, groundwater withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2015* PO_WGWTo AS
                                                    Proj PO WGWTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
                                                    Divided by Total Population (PS-
through, groundwater withdrawals, total, in Mgal/d
TOPop)
             */,
CALCULATED BLOCK PROJ 2015* PO WSWFr AS
                                                    Proj PO WSWFr 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2015* PO WSWSa AS
                                                    Proj PO WSWSa 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
                                                                              /*
CALCULATED BLOCK_PROJ_2015* PO_WSWTo AS
                                                    Proj PO WSWTo 2015
                                                          Thermoelectric once-
      2015 Block-level population projection share times
through, surface-water withdrawals, total, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2015* PO WFrTo
                                             AS
                                                    Proj PO WFrTo 2015
                                                          Thermoelectric once-
      2015 Block-level population projection share times
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* PO_WSaTo
                                             AS
                                                    Proj_PO_WSaTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* PO WTotl
                                             AS
                                                    Proj PO WTotl 2015/*
                                                                              2015
Block-level population projection share times
                                             Thermoelectric once-through, total
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PO_Power
                                             AS
                                                    Proj_PO_Power_2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* PC WGWFr
                                                    Proj PC WGWFr 2015
                                                                              /*
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WGWSa AS
                                                    Proj_PC_WGWSa_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WGWTo AS
                                                    Proj_PC_WGWTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
```

```
/*
CALCULATED BLOCK PROJ 2015* PC WSWFr
                                                    Proj PC WSWFr 2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WSWSa
                                            AS
                                                    Proj_PC_WSWSa_2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WSWTo AS
                                                    Proj PC WSWTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WFrTo
                                             AS
                                                    Proj PC WFrTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* PC_WSaTo
                                                                              /*
                                             AS
                                                    Proj_PC_WSaTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
                                                    Divided by Total Population (PS-
recirculation, total withdrawals, saline, in Mgal/d
TOPop)
             */,
CALCULATED BLOCK_PROJ_2015* PC_WTotl
                                             AS
                                                    Proj_PC_WTotl_2015/*
                                                                              2015
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2015* PC Power
                                                    Proj PC Power 2015
                                                                              /*
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, power generated, in gigawatt-hours
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2015* TO WGWFr AS
                                                    Proj TO WGWFr 2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Total groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* TO WGWSa AS
                                                    Proj TO WGWSa 2015
      2015 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
                                                    Proj_TO_WGWTo_2015
CALCULATED BLOCK_PROJ_2015* TO_WGWTo AS
      2015 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* TO_WSWFr AS
                                                    Proj_TO_WSWFr_2015
      2015 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* TO_WSWSa AS
                                                    Proj_TO_WSWSa_2015
      2015 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2015* TO WSWTo AS
                                                    Proj TO WSWTo 2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* TO_WFrTo
                                                    Proj_TO_WFrTo_2015
                                             AS
      2015 Block-level population projection share times
                                                          Total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK_PROJ_2015* TO_WSaTo
                                                    Proj TO WSaTo 2015
      2015 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK PROJ 2015* TO WTotl
                                             AS
                                                    Proj TO WTotl 2015
      2015 Block-level population projection share times
                                                          Total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
/*Multiplying consumption rates times 2020 block-level population projection to obtain
2020 water use projection*/
CALCULATED BLOCK_PROJ_2020* PS_WGWFr
                                            AS
                                                    Proj_PS_WGWFr_2020
      2020 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* PS WGWSa AS
                                                    Proj PS WGWSa 2020
      2020 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2020* PS_WGWTo AS
                                                    Proj_PS_WGWTo_2020
      2020 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */.
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2020* PS_WSWFr
                                                    Proj_PS_WSWFr_2020
                                             AS
      2020 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                              */,
CALCULATED BLOCK PROJ 2020* PS WSWSa
                                             AS
                                                    Proj PS WSWSa 2020
      2020 Block-level population projection share times
                                                          Public Supply, surface-
                                                                              */,
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* PS_WSWTo
                                             AS
                                                    Proj PS WSWTo 2020
      2020 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                              */,
CALCULATED BLOCK_PROJ_2020* PS_WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2020
      2020 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PS_WSaTo
                                                    Proj_PS_WSaTo_2020
                                             AS
      2020 Block-level population projection share times
                                                          Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PS_Wtotl
                                                    Proj_PS_Wtotl_2020 /*
                                             AS
                                                                              2020
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
```

CALCULATED BLOCK PROJ 2020* DO WGWFr AS Proj DO WGWFr 2020 2020 Block-level population projection share times Domestic, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* DO_WSWFr AS Proj_DO_WSWFr_2020 2020 Block-level population projection share times Domestic, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* DO_WFrTo Proj DO WFrTo 2020 AS 2020 Block-level population projection share times Domestic, total selfsupplied withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* DO_PSDel AS Proj DO PSDel 2020/* 2020 Block-level population projection share times Domestic, deliveries from Public Supply, in Mgal/d Divided by Total Population (PS-TOPop) */, /* CALCULATED BLOCK_PROJ_2020* DO_TOTAL AS Proj_DO_TOTAL_2020 2020 Block-level population projection share times Domestic, total use (withdrawals + deliveries) Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2020* IN WGWFr Proj IN WGWFr 2020 AS 2020 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2020* IN WGWSa AS Proj IN WGWSa 2020 2020 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2020* IN WGWTo Proj IN WGWTo 2020 AS 2020 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IN WSWFr AS Proj IN WSWFr 2020 2020 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2020* IN WSWSa AS Proj IN WSWSa 2020 2020 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2020* IN WSWTo Proj IN WSWTo 2020 AS

Industrial, self-supplied

Divided by Total Population (PS-TOPop)

2020 Block-level population projection share times

surface-water withdrawals, total, in Mgal/d

*/,

```
CALCULATED BLOCK PROI 2020* IN WFrTo
                                              AS
                                                    Proj IN WFrTo 2020
      2020 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* IN_WSaTo
                                              AS
                                                    Proi IN WSaTo 2020
      2020 Block-level population projection share times
                                                           Industrial, self-supplied
                                       Divided by Total Population (PS-TOPop)
total withdrawals, saline, in Mgal/d
                                                                               */,
CALCULATED BLOCK PROJ 2020* IN Wtotl
                                              AS
                                                    Proj IN Wtotl 2020 /*
                                                                               2020
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* IR WGWFr
                                              AS
                                                    Proj IR WGWFr 2020
      2020 Block-level population projection share times
                                                           Irrigation, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* IR_WSWFr
                                                    Proj_IR_WSWFr_2020
                                              AS
      2020 Block-level population projection share times
                                                           Irrigation, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* IR_WFrTo
                                                    Proj_IR_WFrTo_2020
                                              AS
      2020 Block-level population projection share times
                                                           Irrigation, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* IC WGWFr
                                              AS
                                                    Proj IC WGWFr 2020
      2020 Block-level population projection share times
                                                           Irrigation-Crop.
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* IC WSWFr
                                              AS
                                                    Proj IC WSWFr 2020
      2020 Block-level population projection share times
                                                           Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROI 2020* IC WFrTo
                                              AS
                                                    Proj_IC_WFrTo_2020/*
                                                                               2020
Block-level population projection share times
                                              Irrigation-Crop, total withdrawals, fresh,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2020* IG_WGWFr
                                              AS
                                                    Proj_IG_WGWFr_2020
      2020 Block-level population projection share times
                                                           Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* IG_WSWFr
                                              AS
                                                    Proj_IG_WSWFr_2020
      2020 Block-level population projection share times
                                                           Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2020* IG_WFrTo AS Proj_IG_WFrTo_2020 /* 2020 Block-level population projection share times Irrigation-Golf, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROJ 2020* LI WGWFr
                                             AS
                                                   Proj LI WGWFr 2020
      2020 Block-level population projection share times
                                                          Livestock, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* LI WSWFr
                                             AS
                                                   Proj LI WSWFr 2020
      2020 Block-level population projection share times
                                                          Livestock, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* LI_WFrTo
                                                   Proj_LI_WFrTo_2020/*
                                             AS
                                                                             2020
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
                                                   Proj_AQ_WGWFr_2020
CALCULATED BLOCK_PROJ_2020* AQ_WGWFr AS
      2020 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* AQ WGWSa AS
                                                   Proj AQ WGWSa 2020
      2020 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2020* AQ_WGWTo AS
                                                   Proj_AQ_WGWTo_2020
      2020 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2020* AQ_WSWFr AS
                                                   Proj_AQ_WSWFr_2020
      2020 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* AQ_WSWSa AS
                                                   Proj AQ WSWSa 2020
      2020 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* AQ WSWTo AS
                                                   Proj AQ WSWTo 2020
      2020 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
CALCULATED BLOCK_PROJ_2020* AQ_WFrTo
                                                   Proj_AQ_WFrTo_2020
                                             AS
      2020 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* AQ_WSaTo
                                                   Proj_AQ_WSaTo_2020
                                             AS
      2020 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* AQ_WTotl
                                                   Proj AQ WTotl 2020
                                             AS
      2020 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
CALCULATED BLOCK PROJ 2020* MI WGWFr AS
                                                   Proj_MI_WGWFr_2020
                                                                             /*
      2020 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* MI WGWSa AS
                                                   Proi MI WGWSa 2020
      2020 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* MI WGWTo AS
                                                   Proj MI WGWTo 2020
      2020 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2020* MI_WSWFr AS
                                                   Proj MI WSWFr 2020
      2020 Block-level population projection share times
                                                         Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* MI_WSWSa AS
                                                   Proj MI WSWSa 2020
      2020 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* MI WSWTo AS
                                                   Proj MI WSWTo 2020
      2020 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2020* MI WFrTo
                                             AS
                                                   Proj MI WFrTo 2020
      2020 Block-level population projection share times
                                                         Mining, total withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* MI WSaTo
                                             AS
                                                   Proj MI WSaTo 2020
      2020 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* MI Wtotl
                                                   Proj MI Wtotl 2020 /*
                                                                             2020
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PT WGWFr
                                                   Proj PT WGWFr 2020
                                            AS
      2020 Block-level population projection share times
                                                         Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PT WGWSa
                                            AS
                                                   Proj PT WGWSa 2020
      2020 Block-level population projection share times
                                                         Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PT WGWTo AS
                                                   Proj PT WGWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PT WSWFr
                                                   Proj PT WSWFr 2020
                                            AS
      2020 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2020
      2020 Block-level population projection share times
                                                         Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROJ 2020* PT WSWTo AS
                                                   Proj_PT_WSWTo_2020
      2020 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* PT_WFrTo
                                             AS
                                                   Proj PT WFrTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* PT WSaTo
                                             AS
                                                   Proj PT WSaTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* PT Wtotl
                                             AS
                                                   Proj PT Wtotl 2020 /*
                                                                             2020
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK_PROJ_2020* PT_Power
                                                   Proj_PT_Power_2020
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric, power
generated, in gigawatt-hours
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PO WGWFr AS
                                                   Proj PO WGWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2020* PO WGWSa AS
                                                   Proj PO WGWSa 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
                                                                             /*
CALCULATED BLOCK PROJ 2020* PO WGWTo AS
                                                   Proj PO WGWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2020* PO WSWFr AS
                                                   Proj PO WSWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2020* PO WSWSa AS
                                                   Proj PO WSWSa 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
                                                                             /*
CALCULATED BLOCK PROJ 2020* PO WSWTo AS
                                                   Proj PO WSWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2020* PO WFrTo
                                                   Proj PO WFrTo 2020
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PO WSaTo
                                             AS
                                                   Proj PO WSaTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
```

```
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* PO_WTotl
                                             AS
                                                    Proj_PO_WTotl_2020/*
                                                                              2020
Block-level population projection share times
                                             Thermoelectric once-through, total
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PO Power
                                                    Proj PO Power 2020
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2020* PC WGWFr
                                                    Proj PC WGWFr 2020
                                             AS
                                                                              /*
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PC_WGWSa AS
                                                    Proj_PC_WGWSa_2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PC_WGWTo AS
                                                    Proj PC WGWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PC WSWFr AS
                                                    Proj PC WSWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK_PROJ_2020* PC_WSWSa
                                                    Proj_PC_WSWSa_2020
                                                                              /*
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PC_WSWTo AS
                                                    Proj_PC_WSWTo_2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PC WFrTo
                                                    Proj PC WFrTo 2020
                                             AS
                                                                              /*
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2020* PC_WSaTo
                                                    Proj_PC_WSaTo_2020
                                                                              /*
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric
                                                    Divided by Total Population (PS-
recirculation, total withdrawals, saline, in Mgal/d
TOPop)
CALCULATED BLOCK_PROJ_2020* PC_WTotl
                                                    Proj_PC_WTotl_2020/*
                                                                              2020
                                             AS
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
/*
CALCULATED BLOCK PROJ 2020* PC Power
                                             AS
                                                   Proj PC Power 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, power generated, in gigawatt-hours
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2020* TO_WGWFr AS
                                                   Proj_TO_WGWFr_2020
      2020 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* TO_WGWSa AS
                                                   Proj TO WGWSa 2020
      2020 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* TO WGWTo AS
                                                   Proj TO WGWTo 2020
      2020 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* TO WSWFr AS
                                                   Proj TO WSWFr 2020
      2020 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* TO WSWSa AS
                                                   Proj TO WSWSa 2020
      2020 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* TO_WSWTo AS
                                                   Proj_TO_WSWTo_2020
      2020 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* TO WFrTo
                                                   Proj TO WFrTo 2020
                                            AS
      2020 Block-level population projection share times
                                                          Total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK PROJ 2020* TO WSaTo
                                                   Proj TO WSaTo 2020
                                            AS
      2020 Block-level population projection share times
                                                          Total withdrawals, saline.
in Mgal/d
             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROI 2020* TO WTotl
                                            AS
                                                   Proj TO WTotl 2020
      2020 Block-level population projection share times
                                                          Total withdrawals, total
(fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
/*Multiplying consumption rates times 2025 block-level population projection to obtain
2025 water use projection*/
CALCULATED BLOCK_PROJ_2025* PS_WGWFr AS
                                                   Proj PS WGWFr 2025
      2025 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PS WGWSa AS
                                                   Proj PS WGWSa 2025
      2025 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
```

```
CALCULATED BLOCK PROJ 2025* PS WGWTo AS
                                                    Proj PS WGWTo 2025
      2025 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PS WSWFr AS
                                                    Proi PS WSWFr 2025
      2025 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* PS WSWSa
                                             AS
                                                    Proj PS WSWSa 2025
      2025 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROI 2025* PS WSWTo AS
                                                    Proj_PS_WSWTo_2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* PS_WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PS WSaTo
                                             AS
                                                    Proj PS WSaTo 2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Public Supply, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2025* PS Wtotl
                                             AS
                                                    Proj PS Wtotl 2025 /*
                                                                              2025
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* DO_WGWFr AS
                                                    Proj DO WGWFr 2025
      2025 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* DO WSWFr
                                             AS
                                                    Proj DO WSWFr 2025
      2025 Block-level population projection share times
                                                          Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2025* DO WFrTo
                                             AS
                                                    Proj DO WFrTo 2025
      2025 Block-level population projection share times
                                                          Domestic, total self-
supplied withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* DO_PSDel
                                                    Proj DO PSDel 2025/*
                                             AS
                                                                              2025
Block-level population projection share times
                                             Domestic, deliveries from Public Supply,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2025* DO_TOTAL
                                             AS
                                                    Proj_DO_TOTAL_2025
      2025 Block-level population projection share times
                                                          Domestic, total use
(withdrawals + deliveries) Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* IN_WGWFr
                                                    Proj_IN_WGWFr_2025
                                             AS
      2025 Block-level population projection share times
                                                          Industrial, self-supplied
                                             Divided by Total Population (PS-TOPop)
groundwater withdrawals, fresh, in Mgal/d
      */,
```

- CALCULATED BLOCK PROJ 2025* IN WGWSa AS Proj IN WGWSa 2025 2025 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2025* IN_WGWTo AS Proj_IN_WGWTo_2025 2025 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* IN_WSWFr Proj_IN_WSWFr_2025 AS 2025 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* IN_WSWSa Proj IN WSWSa 2025 AS 2025 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* IN_WSWTo AS Proj_IN_WSWTo_2025 2025 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* IN_WFrTo AS Proj_IN_WFrTo_2025 2025 Block-level population projection share times Industrial, self-supplied total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* IN WSaTo Proj IN WSaTo 2025 AS 2025 Block-level population projection share times Industrial, self-supplied total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2025* IN Wtotl AS Proj IN Wtotl 2025 /* 2025 Block-level population projection share times Industrial, self-supplied total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROI 2025* IR WGWFr AS Proj IR WGWFr 2025 2025 Block-level population projection share times Irrigation, groundwater Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK PROJ 2025* IR WSWFr AS Proj IR WSWFr 2025 Irrigation, surface-water 2025 Block-level population projection share times Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK_PROJ_2025* IR_WFrTo AS Proj_IR_WFrTo_2025 /* 2025 Block-level population projection share times Irrigation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- CALCULATED BLOCK_PROJ_2025* IC_WGWFr AS Proj_IC_WGWFr_2025 /* 2025 Block-level population projection share times Irrigation-Crop,

```
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* IC_WSWFr
                                             AS
                                                    Proj_IC_WSWFr_2025
      2025 Block-level population projection share times
                                                           Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* IC_WFrTo
                                             AS
                                                    Proj IC WFrTo 2025/*
                                                                               2025
Block-level population projection share times
                                              Irrigation-Crop, total withdrawals, fresh,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
```

```
CALCULATED BLOCK PROI 2025* IG WGWFr
                                              AS
                                                    Proj_IG_WGWFr_2025
                                                                               /*
      2025 Block-level population projection share times
                                                           Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* IG_WSWFr
                                              AS
                                                    Proj_IG_WSWFr_2025
      2025 Block-level population projection share times
                                                           Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                               */,
CALCULATED BLOCK_PROJ_2025* IG_WFrTo
                                                    Proj IG WFrTo 2025
                                              AS
      2025 Block-level population projection share times
                                                           Irrigation-Golf, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2025* LI WGWFr
                                            AS
                                                   Proj LI WGWFr 2025
      2025 Block-level population projection share times
                                                         Livestock, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2025* LI_WSWFr
                                             AS
                                                   Proj_LI_WSWFr_2025
      2025 Block-level population projection share times
                                                         Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* LI_WFrTo
                                                   Proj_LI_WFrTo_2025/*
                                             AS
                                                                             2025
Block-level population projection share times
                                            Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK PROJ 2025* AQ WGWFr AS
                                                   Proj AQ WGWFr 2025
      2025 Block-level population projection share times
                                                         Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2025* AQ_WGWSa AS
                                                   Proj_AQ_WGWSa_2025
      2025 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* AQ_WGWTo AS
                                                   Proj_AQ_WGWTo_2025
      2025 Block-level population projection share times
                                                         Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2025* AO WSWFr AS
                                                   Proj AO WSWFr 2025
      2025 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2025* AO WSWSa AS
                                                   Proj AQ WSWSa 2025
      2025 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2025* AQ WSWTo AS
                                                   Proj AQ WSWTo 2025
      2025 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2025* AO WFrTo
                                             AS
                                                   Proj AO WFrTo 2025
                                                                             /*
                                                          Aquaculture, total
      2025 Block-level population projection share times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2025* AQ_WSaTo
                                            AS
                                                   Proj_AQ_WSaTo_2025
      2025 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* AQ WTotl
                                             AS
                                                   Proj AQ WTotl 2025
      2025 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* MI WGWFr
                                            AS
                                                   Proj MI WGWFr 2025
      2025 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2025* MI WGWSa AS
                                                   Proj_MI_WGWSa_2025
      2025 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2025* MI_WGWTo AS
                                                   Proj_MI_WGWTo_2025
      2025 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2025* MI WSWFr
                                                   Proj MI WSWFr 2025
                                            AS
      2025 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* MI WSWSa
                                                   Proj MI WSWSa 2025
                                            AS
      2025 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2025* MI_WSWTo AS
                                                   Proj_MI_WSWTo_2025
      2025 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* MI_WFrTo
                                             AS
                                                   Proj_MI_WFrTo_2025
      2025 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop)
fresh, in Mgal/d
CALCULATED BLOCK PROJ 2025* MI WSaTo
                                                   Proi MI_WSaTo_2025
                                             AS
      2025 Block-level population projection share times
                                                          Mining, total withdrawals,
saline, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2025* MI_Wtotl
                                             AS
                                                    Proj_MI_Wtotl_2025 /*
                                                                              2025
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PT WGWFr
                                             AS
                                                    Proj PT WGWFr 2025
      2025 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* PT_WGWSa
                                                    Proj_PT_WGWSa_2025
                                             AS
      2025 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
                                                    Proj_PT_WGWTo_2025
CALCULATED BLOCK_PROJ_2025* PT_WGWTo AS
      2025 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* PT WSWFr
                                             AS
                                                    Proj PT WSWFr 2025
      2025 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                   Proj_PT_WSWSa_2025
CALCULATED BLOCK PROJ 2025* PT WSWSa
                                            AS
                                                          Thermoelectric, surface-
      2025 Block-level population projection share times
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* PT WSWTo AS
                                                    Proj PT WSWTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PT WFrTo
                                             AS
                                                    Proj_PT_WFrTo_2025
      2025 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PT WSaTo
                                             AS
                                                    Proj PT WSaTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PT_Wtotl
                                             AS
                                                    Proj_PT_Wtotl_2025 /*
                                                                              2025
                                             Thermoelectric, total withdrawals, total
Block-level population projection share times
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROI 2025* PT Power
                                             AS
                                                    Proj_PT_Power_2025
                                                          Thermoelectric, power
      2025 Block-level population projection share times
generated, in gigawatt-hours
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PO_WGWFr AS
                                                    Proj_PO_WGWFr_2025
      2025 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2025* PO WGWSa AS
                                                    Proj PO WGWSa 2025
      2025 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
```

```
CALCULATED BLOCK PROJ 2025* PO WGWTo AS
                                                   Proj PO WGWTo 2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2025* PO_WSWFr AS
                                                   Proj_PO_WSWFr_2025
      2025 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2025* PO_WSWSa AS
                                                   Proj PO WSWSa 2025
      2025 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2025* PO WSWTo AS
                                                   Proj PO WSWTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2025* PO_WFrTo
                                             AS
                                                   Proj_PO_WFrTo_2025
      2025 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* PO_WSaTo
                                             AS
                                                   Proj_PO_WSaTo_2025
      2025 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2025* PO WTotl
                                             AS
                                                   Proj PO WTotl 2025/*
                                                                              2025
Block-level population projection share times
                                             Thermoelectric once-through, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2025* PO Power
                                                   Proj PO Power 2025
                                             AS
      2025 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* PC_WGWFr
                                             AS
                                                   Proj PC WGWFr 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2025* PC WGWSa AS
                                                   Proj PC WGWSa 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2025* PC WGWTo AS
                                                   Proj PC WGWTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK PROJ 2025* PC WSWFr
                                                   Proj PC WSWFr 2025
                                             AS
      2025 Block-level population projection share times
                                                          Thermoelectric
```

```
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PC_WSWSa
                                             AS
                                                    Proj_PC_WSWSa_2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PC WSWTo AS
                                                    Proj PC WSWTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PC WFrTo
                                                    Proj PC WFrTo 2025
                                                                              /*
                                             AS
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* PC WSaTo
                                             AS
                                                    Proj PC WSaTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2025* PC WTotl
                                             AS
                                                    Proj PC WTotl 2025/*
                                                                              2025
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* PC_Power
                                             AS
                                                    Proj PC Power 2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Thermoelectric
                                                    Divided by Total Population (PS-
recirculation, power generated, in gigawatt-hours
TOPop)
CALCULATED BLOCK PROJ 2025* TO WGWFr AS
                                                    Proj TO WGWFr 2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2025* TO_WGWSa AS
                                                    Proj_TO_WGWSa_2025
      2025 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* TO_WGWTo AS
                                                    Proj_TO_WGWTo_2025
      2025 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* TO_WSWFr AS
                                                    Proj_TO_WSWFr_2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* TO WSWSa AS
                                                    Proj TO WSWSa 2025
      2025 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2025* TO WSWTo AS
                                                    Proj_TO_WSWTo_2025
      2025 Block-level population projection share times
                                                          Total surface-water
```

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withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* TO WFrTo
                                             AS
                                                   Proj TO WFrTo 2025
      2025 Block-level population projection share times
                                                          Total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* TO WSaTo
                                                   Proj TO WSaTo 2025
                                             AS
      2025 Block-level population projection share times
                                                          Total withdrawals, saline,
in Mgal/d
             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* TO_WTotl
                                                   Proj TO WTotl 2025
                                             AS
      2025 Block-level population projection share times
                                                          Total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
/*Multiplying consumption rates times 2030 block-level population projection to obtain
2030 water use projection*/
CALCULATED BLOCK PROJ 2030* PS WGWFr AS
                                                   Proj PS WGWFr 2030
      2030 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* PS WGWSa AS
                                                   Proj PS WGWSa 2030
      2030 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PS WGWTo AS
                                                   Proj PS WGWTo 2030
      2030 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PS WSWFr
                                                   Proj PS WSWFr 2030
                                           AS
      2030 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PS WSWSa
                                             AS
                                                   Proj PS WSWSa 2030
                                                                             /*
                                                          Public Supply, surface-
      2030 Block-level population projection share times
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROI 2030* PS WSWTo AS
                                                   Proj PS WSWTo 2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PS WFrTo
                                             AS
                                                   Proj PS WFrTo 2030
                                                                              /*
      2030 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PS_WSaTo
                                             AS
                                                   Proj_PS_WSaTo_2030
                                                                              /*
      2030 Block-level population projection share times
                                                          Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PS Wtotl
                                             AS
                                                   Proj PS Wtotl 2030 /*
                                                                              2030
Block-level population projection share times
                                             Public Supply, total withdrawals, total
                        Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2030* DO WGWFr AS
                                                   Proj DO WGWFr 2030
      2030 Block-level population projection share times
                                                          Domestic, self-supplied
```

groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2030* DO_WSWFr AS Proj_DO_WSWFr_2030 2030 Block-level population projection share times Domestic, self-supplied Divided by Total Population (PS-TOPop) surface-water withdrawals, fresh, in Mgal/d */, CALCULATED BLOCK PROJ 2030* DO WFrTo AS Proj DO WFrTo 2030 2030 Block-level population projection share times Domestic, total self-Divided by Total Population (PS-TOPop) supplied withdrawals, fresh, in Mgal/d CALCULATED BLOCK PROJ 2030* DO PSDel AS Proj DO PSDel 2030/* 2030 Block-level population projection share times Domestic, deliveries from Public Supply, Divided by Total Population (PS-TOPop) */, in Mgal/d Proj_DO_TOTAL_2030 CALCULATED BLOCK PROJ 2030* DO TOTAL AS 2030 Block-level population projection share times Domestic, total use (withdrawals + deliveries) Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2030* IN_WGWFr Proj IN WGWFr 2030 AS 2030 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROI 2030* IN WGWSa Proj IN WGWSa 2030 AS 2030 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2030* IN_WGWTo AS Proj_IN_WGWTo_2030 2030 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2030* IN_WSWFr AS Proj_IN_WSWFr_2030 2030 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* IN WSWSa Proj IN WSWSa 2030 AS 2030 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2030* IN_WSWTo AS Proj_IN_WSWTo_2030 2030 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2030* IN_WFrTo AS Proj_IN_WFrTo_2030 2030 Block-level population projection share times Industrial, self-supplied

total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK PROI 2030* IN WSaTo
                                              AS
                                                    Proj IN WSaTo 2030
                                                                               /*
      2030 Block-level population projection share times
                                                           Industrial, self-supplied
                                       Divided by Total Population (PS-TOPop)
total withdrawals, saline, in Mgal/d
                                                                               */,
CALCULATED BLOCK PROJ 2030* IN Wtotl
                                                    Proi IN Wtotl 2030 /*
                                                                               2030
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* IR WGWFr
                                              AS
                                                    Proj IR WGWFr 2030
      2030 Block-level population projection share times
                                                           Irrigation, groundwater
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* IR WSWFr
                                              AS
                                                    Proj IR WSWFr 2030
      2030 Block-level population projection share times
                                                           Irrigation, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* IR_WFrTo
                                                    Proj_IR_WFrTo_2030
                                              AS
      2030 Block-level population projection share times
                                                           Irrigation, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* IC_WGWFr
                                              AS
                                                    Proj_IC_WGWFr_2030
      2030 Block-level population projection share times
                                                           Irrigation-Crop.
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* IC WSWFr
                                                    Proj IC WSWFr 2030
                                              AS
      2030 Block-level population projection share times
                                                           Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* IC WFrTo
                                                    Proj IC WFrTo 2030/*
                                              AS
                                                                               2030
Block-level population projection share times
                                              Irrigation-Crop, total withdrawals, fresh.
in Mgal/d
             Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* IG_WGWFr
                                              AS
                                                    Proj IG WGWFr 2030
      2030 Block-level population projection share times
                                                           Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* IG_WSWFr
                                              AS
                                                    Proj_IG_WSWFr_2030
      2030 Block-level population projection share times
                                                           Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* IG_WFrTo
                                              AS
                                                    Proj_IG_WFrTo_2030
                                                                               /*
      2030 Block-level population projection share times
                                                           Irrigation-Golf, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2030* LI WGWFr
                                             AS
                                                   Proj LI WGWFr 2030
                                                          Livestock, groundwater
      2030 Block-level population projection share times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* LI WSWFr
                                             AS
                                                   Proj LI WSWFr 2030
      2030 Block-level population projection share times
                                                          Livestock, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* LI_WFrTo
                                             AS
                                                   Proj_LI_WFrTo_2030/*
                                                                             2030
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
CALCULATED BLOCK_PROJ_2030* AQ_WGWFr AS
                                                   Proj_AQ_WGWFr_2030
      2030 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* AQ WGWSa AS
                                                   Proj AQ WGWSa 2030
      2030 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2030* AQ WGWTo AS
                                                   Proj AQ WGWTo 2030
      2030 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AO WSWFr AS
                                                   Proj AO WSWFr 2030
      2030 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* AO WSWSa AS
                                                   Proj AO WSWSa 2030
      2030 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AQ WSWTo AS
                                                   Proj AQ WSWTo 2030
      2030 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2030* AO WFrTo
                                             AS
                                                   Proj_AQ_WFrTo_2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Aquaculture, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROI 2030* AO WSaTo
                                            AS
                                                   Proj AO WSaTo 2030
      2030 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* AQ_WTotl
                                             AS
                                                   Proj_AQ_WTotl_2030
      2030 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* MI WGWFr
                                            AS
                                                   Proj MI WGWFr 2030
      2030 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
```

```
Proj MI_WGWSa_2030
CALCULATED BLOCK PROJ 2030* MI WGWSa AS
                                                                             /*
      2030 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2030* MI WGWTo AS
                                                   Proi MI WGWTo 2030
      2030 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2030* MI WSWFr AS
                                                   Proj MI WSWFr 2030
      2030 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* MI WSWSa AS
                                                   Proj MI WSWSa 2030
      2030 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2030* MI WSWTo AS
                                                   Proj MI WSWTo 2030
      2030 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* MI WFrTo
                                             AS
                                                   Proj MI WFrTo 2030
      2030 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop)
fresh, in Mgal/d
                                                         */.
CALCULATED BLOCK PROJ 2030* MI WSaTo
                                             AS
                                                   Proj MI WSaTo 2030
      2030 Block-level population projection share times
                                                          Mining, total withdrawals,
saline, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* MI Wtotl
                                                   Proj_MI_Wtotl_2030 /*
                                                                             2030
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PT WGWFr
                                                   Proj PT WGWFr 2030
                                            AS
      2030 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* PT WGWSa
                                            AS
                                                   Proj PT WGWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* PT_WGWTo AS
                                                   Proj_PT_WGWTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2030* PT_WSWFr
                                             AS
                                                   Proj_PT_WSWFr_2030
      2030 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PT WSWTo AS
                                                   Proj PT WSWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROJ 2030* PT WFrTo
                                             AS
                                                    Proj_PT_WFrTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PT WSaTo
                                             AS
                                                    Proj PT WSaTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2030* PT Wtotl
                                             AS
                                                    Proj PT Wtotl 2030 /*
                                                                              2030
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PT_Power
                                             AS
                                                    Proj_PT_Power_2030
      2030 Block-level population projection share times
                                                          Thermoelectric, power
generated, in gigawatt-hours
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PO_WGWFr AS
                                                    Proj PO WGWFr 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2030* PO_WGWSa AS
                                                    Proj_PO_WGWSa_2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2030* PO_WGWTo AS
                                                    Proj_PO_WGWTo_2030
                                                                              /*
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2030* PO WSWFr AS
                                                    Proj PO WSWFr 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2030* PO_WSWSa
                                                    Proj PO WSWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
                                                                              /*
CALCULATED BLOCK_PROJ_2030* PO_WSWTo AS
                                                    Proj_PO_WSWTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2030* PO_WFrTo
                                             AS
                                                    Proj_PO_WFrTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* PO WSaTo
                                             AS
                                                    Proj PO WSaTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
CALCULATED BLOCK_PROJ_2030* PO_WTotl
                                             AS
                                                    Proj_PO_WTotl_2030/*
                                                                              2030
                                             Thermoelectric once-through, total
Block-level population projection share times
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PO Power
                                                    Proj PO Power 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* PC WGWFr
                                             AS
                                                    Proj_PC_WGWFr_2030
      2030 Block-level population projection share times
                                                           Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                           Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK_PROJ_2030* PC_WGWSa AS
                                                    Proj_PC_WGWSa_2030
      2030 Block-level population projection share times
                                                           Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                           Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2030* PC WGWTo AS
                                                    Proj_PC_WGWTo 2030
      2030 Block-level population projection share times
                                                           Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PC WSWFr
                                                    Proj PC WSWFr 2030
                                             AS
      2030 Block-level population projection share times
                                                           Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK_PROJ_2030* PC_WSWSa
                                                    Proj PC WSWSa 2030
                                             AS
      2030 Block-level population projection share times
                                                           Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                           Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2030* PC WSWTo AS
                                                    Proj PC WSWTo 2030
      2030 Block-level population projection share times
                                                           Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                           Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2030* PC WFrTo
                                             AS
                                                    Proj PC WFrTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PC WSaTo
                                                    Proj PC WSaTo 2030
                                             AS
      2030 Block-level population projection share times
                                                           Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2030* PC WTotl
                                                    Proj PC WTotl 2030/*
                                             AS
                                                                              2030
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
                                                    Proj_PC_Power_2030
CALCULATED BLOCK PROJ 2030* PC Power
                                             AS
      2030 Block-level population projection share times
                                                          Thermoelectric
```

```
recirculation, power generated, in gigawatt-hours
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2030* TO_WGWFr AS
                                                   Proj_TO_WGWFr_2030
      2030 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* TO WGWSa AS
                                                   Proj_TO_WGWSa_2030
      2030 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* TO_WGWTo AS
                                                   Proj TO WGWTo 2030
      2030 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* TO WSWFr AS
                                                   Proj TO WSWFr 2030
      2030 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* TO WSWSa AS
                                                   Proj TO WSWSa 2030
      2030 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* TO WSWTo AS
                                                   Proj TO WSWTo 2030
      2030 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* TO WFrTo
                                             AS
                                                   Proj TO WFrTo 2030
      2030 Block-level population projection share times
                                                          Total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK_PROJ_2030* TO_WSaTo
                                                   Proj_TO_WSaTo_2030
      2030 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop)
in Mgal/d
                                                   */,
CALCULATED BLOCK_PROJ_2030* TO_WTotl
                                                   Proj TO WTotl 2030
                                             AS
      2030 Block-level population projection share times
                                                         Total withdrawals, total
                        Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
```

```
/*Multiplying consumption rates times 2035 block-level population projection to obtain 2035 water use projection*/
CALCULATED BLOCK_PROJ_2035* PS_WGWFr AS Proj_PS_WGWFr_2035 /* 2035 Block-level population projection share times Public Supply, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PS_WGWSa AS Proj_PS_WGWSa_2035 /* 2035 Block-level population projection share times Public Supply, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROI 2035* PS WGWTo AS
                                                    Proj PS WGWTo 2035
      2035 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PS WSWFr AS
                                                    Proi PS WSWFr 2035
      2035 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* PS WSWSa
                                             AS
                                                    Proj PS WSWSa 2035
      2035 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* PS WSWTo AS
                                                    Proj_PS_WSWTo_2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* PS_WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PS WSaTo
                                             AS
                                                    Proj PS WSaTo 2035
                                                                              /*
                                                          Public Supply, total
      2035 Block-level population projection share times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2035* PS Wtotl
                                             AS
                                                    Proj PS Wtotl 2035 /*
                                                                              2035
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* DO_WGWFr AS
                                                    Proj DO WGWFr 2035
      2035 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* DO WSWFr
                                             AS
                                                    Proj DO WSWFr 2035
      2035 Block-level population projection share times
                                                          Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2035* DO WFrTo
                                             AS
                                                    Proj DO WFrTo 2035
      2035 Block-level population projection share times
                                                          Domestic, total self-
supplied withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* DO_PSDel
                                             AS
                                                    Proj DO PSDel 2035/*
                                                                              2035
Block-level population projection share times
                                             Domestic, deliveries from Public Supply,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2035* DO_TOTAL
                                             AS
                                                    Proj_DO_TOTAL_2035
      2035 Block-level population projection share times
                                                          Domestic, total use
(withdrawals + deliveries) Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* IN_WGWFr
                                                    Proj_IN_WGWFr_2035
                                             AS
      2035 Block-level population projection share times
                                                          Industrial, self-supplied
                                             Divided by Total Population (PS-TOPop)
groundwater withdrawals, fresh, in Mgal/d
      */,
```

- CALCULATED BLOCK PROJ 2035* IN WGWSa AS Proj IN WGWSa 2035 2035 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2035* IN_WGWTo AS Proj_IN_WGWTo_2035 2035 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2035* IN_WSWFr Proj_IN_WSWFr_2035 AS 2035 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2035* IN_WSWSa Proj IN WSWSa 2035 AS 2035 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2035* IN_WSWTo AS Proj_IN_WSWTo_2035 2035 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2035* IN_WFrTo AS Proj_IN_WFrTo_2035 2035 Block-level population projection share times Industrial, self-supplied total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2035* IN WSaTo Proj IN WSaTo 2035 AS 2035 Block-level population projection share times Industrial, self-supplied total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2035* IN Wtotl AS Proj IN Wtotl 2035 /* 2035 Block-level population projection share times Industrial, self-supplied total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROI 2035* IR WGWFr AS Proj IR WGWFr 2035 2035 Block-level population projection share times Irrigation, groundwater Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK PROJ 2035* IR WSWFr AS Proj IR WSWFr 2035 2035 Block-level population projection share times Irrigation, surface-water Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK_PROJ_2035* IR_WFrTo AS Proj_IR_WFrTo_2035 /* 2035 Block-level population projection share times Irrigation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- CALCULATED BLOCK_PROJ_2035* IC_WGWFr AS Proj_IC_WGWFr_2035 /* 2035 Block-level population projection share times Irrigation-Crop,

```
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* IC_WSWFr
                                             AS
                                                    Proj_IC_WSWFr_2035
      2035 Block-level population projection share times
                                                           Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* IC_WFrTo
                                             AS
                                                    Proj IC WFrTo 2035/*
                                                                               2035
Block-level population projection share times
                                             Irrigation-Crop, total withdrawals, fresh,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
```

```
CALCULATED BLOCK PROI 2035* IG WGWFr
                                              AS
                                                    Proj_IG_WGWFr_2035
                                                                               /*
      2035 Block-level population projection share times
                                                           Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* IG_WSWFr
                                             AS
                                                    Proj_IG_WSWFr_2035
      2035 Block-level population projection share times
                                                           Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                               */,
CALCULATED BLOCK_PROJ_2035* IG_WFrTo
                                                    Proj IG WFrTo 2035
                                              AS
      2035 Block-level population projection share times
                                                           Irrigation-Golf, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2035* LI WGWFr
                                            AS
                                                   Proj LI WGWFr 2035
      2035 Block-level population projection share times
                                                          Livestock, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* LI_WSWFr
                                             AS
                                                   Proj_LI_WSWFr_2035
      2035 Block-level population projection share times
                                                         Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* LI_WFrTo
                                                   Proj_LI_WFrTo_2035/*
                                             AS
                                                                             2035
Block-level population projection share times
                                            Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK PROJ 2035* AQ WGWFr AS
                                                   Proj AQ WGWFr 2035
      2035 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* AQ_WGWSa AS
                                                   Proj_AQ_WGWSa_2035
      2035 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* AQ_WGWTo AS
                                                   Proj_AQ_WGWTo_2035
      2035 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2035* AO WSWFr AS
                                                   Proj AO WSWFr 2035
      2035 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2035* AO WSWSa AS
                                                   Proj AQ WSWSa 2035
      2035 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2035* AQ WSWTo AS
                                                   Proj AQ WSWTo 2035
      2035 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2035* AO WFrTo
                                             AS
                                                   Proj_AQ_WFrTo_2035
                                                                             /*
                                                          Aquaculture, total
      2035 Block-level population projection share times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* AQ_WSaTo
                                            AS
                                                   Proj_AQ_WSaTo_2035
      2035 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* AQ WTotl
                                             AS
                                                   Proj AQ WTotl 2035
      2035 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* MI WGWFr
                                            AS
                                                   Proj MI WGWFr 2035
      2035 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_WGWSa AS
                                                   Proj_MI_WGWSa_2035
      2035 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_WGWTo AS
                                                   Proj_MI_WGWTo_2035
      2035 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2035* MI WSWFr
                                                   Proj MI WSWFr 2035
                                            AS
      2035 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* MI WSWSa
                                                   Proj MI WSWSa 2035
                                            AS
      2035 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_WSWTo AS
                                                   Proj_MI_WSWTo_2035
      2035 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* MI_WFrTo
                                             AS
                                                   Proj_MI_WFrTo_2035
      2035 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop)
fresh, in Mgal/d
                                                   Proi MI_WSaTo_2035
CALCULATED BLOCK PROJ 2035* MI WSaTo
                                             AS
      2035 Block-level population projection share times
                                                          Mining, total withdrawals,
saline, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2035* MI_Wtotl
                                             AS
                                                    Proj_MI_Wtotl_2035 /*
                                                                              2035
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PT WGWFr
                                             AS
                                                    Proj PT WGWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* PT_WGWSa
                                                    Proj_PT_WGWSa_2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
                                                    Proj_PT_WGWTo_2035
CALCULATED BLOCK_PROJ_2035* PT_WGWTo AS
      2035 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* PT WSWFr
                                             AS
                                                    Proj PT WSWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                   Proj_PT_WSWSa_2035
CALCULATED BLOCK PROJ 2035* PT WSWSa
                                            AS
                                                          Thermoelectric, surface-
      2035 Block-level population projection share times
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* PT WSWTo AS
                                                    Proj_PT_WSWTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PT WFrTo
                                             AS
                                                    Proj_PT_WFrTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PT WSaTo
                                             AS
                                                    Proj PT WSaTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PT_Wtotl
                                             AS
                                                    Proj_PT_Wtotl_2035 /*
                                                                              2035
                                             Thermoelectric, total withdrawals, total
Block-level population projection share times
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROI 2035* PT Power
                                             AS
                                                    Proj_PT_Power_2035
                                                          Thermoelectric, power
      2035 Block-level population projection share times
generated, in gigawatt-hours
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PO_WGWFr AS
                                                    Proj_PO_WGWFr_2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2035* PO WGWSa AS
                                                    Proj PO WGWSa 2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
```

```
CALCULATED BLOCK PROI 2035* PO WGWTo AS
                                                   Proj PO WGWTo 2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2035* PO_WSWFr AS
                                                   Proj_PO_WSWFr_2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2035* PO_WSWSa AS
                                                   Proj PO WSWSa 2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2035* PO WSWTo AS
                                                   Proj PO WSWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2035* PO_WFrTo
                                             AS
                                                   Proj_PO_WFrTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* PO_WSaTo
                                             AS
                                                   Proj_PO_WSaTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2035* PO WTotl
                                             AS
                                                   Proj PO WTotl 2035/*
                                                                              2035
Block-level population projection share times
                                             Thermoelectric once-through, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2035* PO Power
                                                   Proj PO Power 2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* PC_WGWFr
                                             AS
                                                   Proj PC WGWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2035* PC WGWSa AS
                                                   Proj PC WGWSa 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2035* PC WGWTo AS
                                                   Proj PC WGWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK PROJ 2035* PC WSWFr
                                                   Proj PC WSWFr 2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric
```

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recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PC_WSWSa
                                             AS
                                                    Proj_PC_WSWSa_2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PC WSWTo AS
                                                    Proj PC WSWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PC WFrTo
                                                    Proj PC WFrTo 2035
                                                                              /*
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* PC WSaTo
                                             AS
                                                    Proj PC WSaTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2035* PC WTotl
                                             AS
                                                    Proj PC WTotl 2035/*
                                                                              2035
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* PC_Power
                                             AS
                                                    Proj PC Power 2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Thermoelectric
                                                    Divided by Total Population (PS-
recirculation, power generated, in gigawatt-hours
TOPop)
CALCULATED BLOCK PROJ 2035* TO WGWFr AS
                                                    Proj TO WGWFr 2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* TO_WGWSa AS
                                                    Proj_TO_WGWSa_2035
      2035 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* TO_WGWTo AS
                                                    Proj_TO_WGWTo_2035
      2035 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* TO_WSWFr AS
                                                    Proj_TO_WSWFr_2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* TO WSWSa AS
                                                    Proj TO WSWSa 2035
      2035 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROI 2035* TO WSWTo AS
                                                    Proj_TO_WSWTo_2035
      2035 Block-level population projection share times
                                                          Total surface-water
```

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withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* TO WFrTo
                                             AS
                                                    Proj TO WFrTo 2035
      2035 Block-level population projection share times
                                                          Total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* TO WSaTo
                                                    Proj TO WSaTo 2035
                                             AS
      2035 Block-level population projection share times
                                                          Total withdrawals, saline,
in Mgal/d
             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* TO_WTotl
                                                    Proj TO WTotl 2035
                                             AS
      2035 Block-level population projection share times
                                                          Total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
/*Multiplying consumption rates times 2035 block-level population projection to obtain
2040 water use projection*/
CALCULATED BLOCK_PROJ_2040* PS_WGWFr
                                             AS
                                                    Proj_PS_WGWFr_2040
      2040 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2040* PS WGWSa AS
                                                    Proj PS WGWSa 2040
      2040 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2040* PS_WGWTo AS
                                                    Proj_PS_WGWTo_2040
      2040 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */.
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2040* PS_WSWFr
                                                    Proj_PS_WSWFr_2040
                                             AS
      2040 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                              */,
CALCULATED BLOCK_PROJ_2040* PS_WSWSa
                                             AS
                                                    Proj PS WSWSa 2040
      2040 Block-level population projection share times
                                                          Public Supply, surface-
                                                                              */,
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* PS_WSWTo
                                             AS
                                                    Proj PS WSWTo 2040
      2040 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                              */,
CALCULATED BLOCK_PROJ_2040* PS_WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2040
      2040 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PS_WSaTo
                                                    Proj_PS_WSaTo_2040
                                             AS
      2040 Block-level population projection share times
                                                          Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PS_Wtotl
                                             AS
                                                    Proj_PS_Wtotl_2040 /*
                                                                              2040
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d
                        Divided by Total Population (PS-TOPop) */,
```

CALCULATED BLOCK PROJ 2040* DO WGWFr AS Proj DO WGWFr 2040 2040 Block-level population projection share times Domestic, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2040* DO_WSWFr AS Proj_DO_WSWFr_2040 2040 Block-level population projection share times Domestic, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2040* DO_WFrTo Proj DO WFrTo 2040 AS 2040 Block-level population projection share times Domestic, total selfsupplied withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2040* DO_PSDel AS Proj DO PSDel 2040/* 2040 Block-level population projection share times Domestic, deliveries from Public Supply, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2040* DO_TOTAL /* AS Proj_DO_TOTAL_2040 2040 Block-level population projection share times Domestic, total use (withdrawals + deliveries) Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2040* IN WGWFr Proj IN WGWFr 2040 AS 2040 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2040* IN WGWSa AS Proj IN WGWSa 2040 2040 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2040* IN WGWTo Proj IN WGWTo 2040 AS 2040 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2040* IN WSWFr AS Proj IN WSWFr 2040 2040 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2040* IN WSWSa AS Proj IN WSWSa 2040 2040 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2040* IN WSWTo Proj IN WSWTo 2040 AS

Industrial, self-supplied

Divided by Total Population (PS-TOPop)

2040 Block-level population projection share times

surface-water withdrawals, total, in Mgal/d

*/,

```
CALCULATED BLOCK PROI 2040* IN WFrTo
                                              AS
                                                    Proj IN WFrTo 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* IN_WSaTo
                                              AS
                                                    Proi IN WSaTo 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
                                       Divided by Total Population (PS-TOPop)
total withdrawals, saline, in Mgal/d
                                                                               */,
CALCULATED BLOCK PROJ 2040* IN Wtotl
                                              AS
                                                    Proj IN Wtotl 2040 /*
                                                                               2040
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
                                              AS
CALCULATED BLOCK PROJ 2040* IR WGWFr
                                                    Proj IR WGWFr 2040
      2040 Block-level population projection share times
                                                           Irrigation, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2040* IR_WSWFr
                                                    Proj_IR_WSWFr_2040
                                              AS
      2040 Block-level population projection share times
                                                           Irrigation, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2040* IR_WFrTo
                                                    Proj_IR_WFrTo_2040
                                              AS
      2040 Block-level population projection share times
                                                           Irrigation, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* IC WGWFr
                                              AS
                                                    Proj IC WGWFr 2040
      2040 Block-level population projection share times
                                                           Irrigation-Crop.
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* IC WSWFr
                                                    Proj IC WSWFr 2040
                                              AS
      2040 Block-level population projection share times
                                                           Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROI 2040* IC WFrTo
                                              AS
                                                    Proj_IC_WFrTo_2040/*
                                                                               2040
Block-level population projection share times
                                              Irrigation-Crop, total withdrawals, fresh,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2040* IG_WGWFr
                                              AS
                                                    Proj_IG_WGWFr_2040
      2040 Block-level population projection share times
                                                           Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* IG_WSWFr
                                              AS
                                                    Proj_IG_WSWFr_2040
      2040 Block-level population projection share times
                                                           Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2040* IG_WFrTo AS Proj_IG_WFrTo_2040 /* 2040 Block-level population projection share times Irrigation-Golf, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROJ 2040* LI WGWFr
                                             AS
                                                   Proj LI WGWFr 2040
      2040 Block-level population projection share times
                                                          Livestock, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* LI WSWFr
                                             AS
                                                   Proj LI WSWFr 2040
      2040 Block-level population projection share times
                                                          Livestock, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2040* LI_WFrTo
                                                   Proj_LI_WFrTo_2040/*
                                             AS
                                                                             2040
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
                                                   Proj_AQ_WGWFr_2040
CALCULATED BLOCK_PROJ_2040* AQ_WGWFr AS
      2040 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* AQ WGWSa AS
                                                   Proj AQ WGWSa 2040
      2040 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2040* AQ_WGWTo AS
                                                   Proj_AQ_WGWTo_2040
      2040 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2040* AQ_WSWFr AS
                                                   Proj_AQ_WSWFr_2040
      2040 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* AQ_WSWSa AS
                                                   Proj AQ WSWSa 2040
      2040 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* AQ WSWTo AS
                                                   Proj AQ WSWTo 2040
      2040 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* AQ_WFrTo
                                                   Proj_AQ_WFrTo_2040
                                             AS
      2040 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* AQ_WSaTo
                                                   Proj_AQ_WSaTo_2040
                                             AS
      2040 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* AQ_WTotl
                                                   Proj AQ WTotl 2040
                                             AS
      2040 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
CALCULATED BLOCK PROJ 2040* MI WGWFr AS
                                                   Proj_MI_WGWFr_2040
                                                                             /*
      2040 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI WGWSa AS
                                                   Proi MI WGWSa 2040
      2040 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2040* MI WGWTo AS
                                                   Proj MI WGWTo 2040
      2040 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2040* MI WSWFr AS
                                                   Proj MI WSWFr 2040
      2040 Block-level population projection share times
                                                         Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2040* MI_WSWSa AS
                                                   Proj MI WSWSa 2040
      2040 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI WSWTo AS
                                                   Proj MI WSWTo 2040
      2040 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2040* MI WFrTo
                                             AS
                                                   Proj MI WFrTo 2040
      2040 Block-level population projection share times
                                                         Mining, total withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI WSaTo
                                             AS
                                                   Proj MI WSaTo 2040
      2040 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK PROJ 2040* MI Wtotl
                                                   Proj MI Wtotl 2040 /*
                                                                             2040
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PT WGWFr
                                                   Proj PT WGWFr 2040
                                            AS
                                                                             /*
      2040 Block-level population projection share times
                                                         Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* PT WGWSa
                                            AS
                                                   Proj PT WGWSa 2040
      2040 Block-level population projection share times
                                                         Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PT WGWTo AS
                                                   Proj PT WGWTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* PT WSWFr
                                                   Proj PT WSWFr 2040
                                            AS
      2040 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2040
      2040 Block-level population projection share times
                                                         Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROI 2040* PT WSWTo AS
                                                   Proj_PT_WSWTo_2040
      2040 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* PT_WFrTo
                                             AS
                                                   Proj PT WFrTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2040* PT WSaTo
                                             AS
                                                   Proj PT WSaTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2040* PT Wtotl
                                             AS
                                                   Proj PT Wtotl 2040 /*
                                                                             2040
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK_PROJ_2040* PT_Power
                                                   Proj_PT_Power_2040
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric, power
generated, in gigawatt-hours
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PO WGWFr AS
                                                   Proj PO WGWFr 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2040* PO WGWSa AS
                                                   Proj PO WGWSa 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
                                                                             /*
CALCULATED BLOCK PROJ 2040* PO WGWTo AS
                                                   Proj PO WGWTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2040* PO WSWFr AS
                                                   Proj PO WSWFr 2040
                                                          Thermoelectric once-
      2040 Block-level population projection share times
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2040* PO WSWSa AS
                                                   Proj PO WSWSa 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
                                                                             /*
CALCULATED BLOCK PROJ 2040* PO WSWTo AS
                                                   Proj PO WSWTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2040* PO WFrTo
                                                   Proj PO WFrTo 2040
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* PO WSaTo
                                             AS
                                                   Proj PO WSaTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
```

```
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* PO_WTotl
                                             AS
                                                    Proj_PO_WTotl_2040/*
                                                                              2040
Block-level population projection share times
                                             Thermoelectric once-through, total
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PO_Power
                                                    Proj PO Power 2040
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* PC WGWFr
                                                    Proj PC WGWFr 2040
                                             AS
                                                                              /*
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PC_WGWSa AS
                                                    Proj_PC_WGWSa_2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PC_WGWTo AS
                                                    Proj PC WGWTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PC WSWFr AS
                                                    Proj PC WSWFr 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK_PROJ_2040* PC_WSWSa
                                                    Proj_PC_WSWSa_2040
                                                                              /*
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PC_WSWTo AS
                                                    Proj_PC_WSWTo_2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PC WFrTo
                                                    Proj PC WFrTo 2040
                                             AS
                                                                              /*
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* PC_WSaTo
                                                    Proj_PC_WSaTo_2040
                                                                              /*
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric
                                                    Divided by Total Population (PS-
recirculation, total withdrawals, saline, in Mgal/d
TOPop)
CALCULATED BLOCK_PROJ_2040* PC_WTotl
                                                    Proj_PC_WTotl_2040 /*
                                                                              2040
                                             AS
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
/*
CALCULATED BLOCK PROJ 2040* PC Power
                                          AS
                                                Proj PC Power 2040
      2040 Block-level population projection share times
                                                      Thermoelectric
recirculation, power generated, in gigawatt-hours
                                                Divided by Total Population (PS-
TOPop)
            */,
CALCULATED BLOCK_PROJ_2040* TO_WGWFr AS
                                                Proj_TO_WGWFr_2040
      2040 Block-level population projection share times
                                                      Total groundwater
                              Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2040* TO_WGWSa AS
                                                Proj TO WGWSa 2040
      2040 Block-level population projection share times
                                                      Total groundwater
withdrawals, saline, in Mgal/d
                              Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* TO WGWTo AS
                                                Proj TO WGWTo 2040
      2040 Block-level population projection share times
                                                      Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                          Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* TO WSWFr AS
                                                Proj TO WSWFr 2040
      2040 Block-level population projection share times
                                                      Total surface-water
                              Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2040* TO WSWSa AS
                                                Proj TO WSWSa 2040
      2040 Block-level population projection share times
                                                      Total surface-water
                              Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2040* TO_WSWTo AS
                                                Proj_TO_WSWTo_2040
      2040 Block-level population projection share times
                                                      Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                          Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* TO WFrTo
                                                Proj TO WFrTo 2040
                                          AS
      2040 Block-level population projection share times
                                                      Total withdrawals, fresh, in
Mgal/d
            Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* TO WSaTo
                                                Proj TO WSaTo 2040
                                         AS
      2040 Block-level population projection share times
                                                      Total withdrawals, saline.
in Mgal/d
            Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* TO WTotl
                                          AS
                                                Proj TO WTotl 2040
      2040 Block-level population projection share times
                                                      Total withdrawals, total
(fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */
FROM AL BLOCK A
LEFT JOIN AL_COUNTY B ON A.STATECOUNTY=B.STATECOUNTY
LEFT JOIN WP2014 POP C ON A.STATECOUNTY=C.STATECOUNTY
LEFT JOIN AL_USGS D ON A.STATECOUNTY=D.FIPS
;
quit;
/*########### GEORGIA
######*/
```

/*Calculating projected population and water use by category by source for Georgia*/

```
PROC SQL NOPRINT;
CREATE TABLE GA SHARES AS
SELECT DISTINCT A.*, COUNTY POP100, COUNTY HU100,
/*Calculating the percent of total county population residing in each block*/
BLOCK_POP100/COUNTY_POP100 AS BLOCK_POP_SHARE,
BLOCK_HU100/COUNTY_HU100 AS BLOCK_HU_SHARE,
2015, 2020, 2025, 2030, 2035, 2040,
/*Multiplying the share of population in the block times the Woods and Poole projections*/
CALCULATED BLOCK_POP_SHARE*_2015 AS BLOCK_PROJ_2015,
CALCULATED BLOCK POP SHARE* 2020 AS BLOCK PROJ 2020,
CALCULATED BLOCK_POP_SHARE*_2025 AS BLOCK_PROJ_2025,
CALCULATED BLOCK_POP_SHARE*_2030 AS BLOCK_PROJ_2030,
CALCULATED BLOCK POP SHARE* 2035 AS BLOCK PROJ 2035.
CALCULATED BLOCK POP SHARE* 2040 AS BLOCK PROJ 2040,
/*Adding per capita consumption rates caculated from 2010 USGS County-level water use
estimates*/
PS_TOPop
                   Public Supply, total population served, in thousands
                   Public Supply, groundwater withdrawals, fresh, in Mgal/d
PS WGWFr
PS_WGWSa
                   Public Supply, groundwater withdrawals, saline, in Mgal/d
PS_WGWTo
                   Public Supply, groundwater withdrawals, total, in Mgal/d
             /*
PS_WSWFr
                   Public Supply, surface-water withdrawals, fresh, in Mgal/d
PS_WSWSa
                   Public Supply, surface-water withdrawals, saline, in Mgal/d
PS WSWTo
                   Public Supply, surface-water withdrawals, total, in Mgal/d
                                                                             */
PS WFrTo
                   Public Supply, total withdrawals, fresh, in Mgal/d*/
PS_WSaTo
                   Public Supply, total withdrawals, saline, in Mgal/d
                   Public Supply, total withdrawals, total (fresh+saline), in Mgal/d
PS_Wtotl
      */
DO WGWFr
                   Domestic, self-supplied groundwater withdrawals, fresh, in Mgal/d
DO WSWFr
                   Domestic, self-supplied surface-water withdrawals, fresh, in Mgal/d
      */
```

```
/*
                    Domestic, total self-supplied withdrawals, fresh, in Mgal/d
                                                                                  */
DO_WFrTo
DO PSDel
                    Domestic, deliveries from Public Supply, in Mgal/d
                    Domestic, publicly supplied per capita use, in gallons/day [DO-
DO_PSPCp
PSDel/PS-TOPopl
                    */
                    Domestic, total use (withdrawals + deliveries)
DO TOTAL
                    Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d
IN_WGWFr
                    Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d
IN_WGWSa
                    Industrial, self-supplied groundwater withdrawals, total, in Mgal/d
IN_WGWTo
IN_WSWFr
                    Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d
                    Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d
IN WSWSa
                    Industrial, self-supplied surface-water withdrawals, total, in Mgal/d
IN_WSWTo
                    Industrial, self-supplied total withdrawals, fresh, in Mgal/d
                                                                                  */
IN_WFrTo
IN_WSaTo
                    Industrial, self-supplied total withdrawals, saline, in Mgal/d
              /*
                                                                                  */
                    Industrial, self-supplied total withdrawals, total (fresh+saline), in
IN Wtotl
Mgal/d
IR_WGWFr
                    Irrigation, groundwater withdrawals, fresh, in Mgal/d
IR WSWFr
                    Irrigation, surface-water withdrawals, fresh, in Mgal/d */
                    Irrigation, total withdrawals, fresh, in Mgal/d
IR_WFrTo
              /*
                    Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d
IC_WGWFr
              /*
IC_WSWFr
                    Irrigation-Crop, surface-water withdrawals, fresh, in Mgal/d
                                                                                  */
IC_WFrTo
                    Irrigation-Crop, total withdrawals, fresh, in Mgal/d
              /*
                                                                           */
IG_WGWFr
                    Irrigation-Golf, groundwater withdrawals, fresh, in Mgal/d
              /*
                                                                                  */
IG_WSWFr
                    Irrigation-Golf, surface-water withdrawals, fresh, in Mgal/d
              /*
                                                                                  */
```

```
/*
                    Irrigation-Golf, total withdrawals, fresh, in Mgal/d
                                                                         */
IG_WFrTo
LI_WGWFr
                    Livestock, groundwater withdrawals, fresh, in Mgal/d
                    Livestock, surface-water withdrawals, fresh, in Mgal/d */
LI WSWFr
                    Livestock, total withdrawals, fresh, in Mgal/d
LI WFrTo
                    Aquaculture, groundwater withdrawals, fresh, in Mgal/d
AQ_WGWFr
AQ_WGWSa
                    Aquaculture, groundwater withdrawals, saline, in Mgal/d
AQ_WGWTo
                    Aquaculture, groundwater withdrawals, total, in Mgal/d*/
                    Aquaculture, surface-water withdrawals, fresh, in Mgal/d
AQ_WSWFr
AQ WSWSa
                    Aquaculture, surface-water withdrawals, saline, in Mgal/d
              /*
AQ_WSWTo
                    Aquaculture, surface-water withdrawals, total, in Mgal/d
                                                                                */
AQ WFrTo
                    Aquaculture, total withdrawals, fresh, in Mgal/d */
AQ_WSaTo
                    Aquaculture, total withdrawals, saline, in Mgal/d */
AQ_WTotl
                    Aquaculture, total withdrawals, total (fresh+saline), in Mgal/d */
                    Mining, groundwater withdrawals, fresh, in Mgal/d
MI WGWFr
                    Mining, groundwater withdrawals, saline, in Mgal/d
MI_WGWSa
                                                                         */
                    Mining, groundwater withdrawals, total, in Mgal/d
MI_WGWTo
MI WSWFr
                    Mining, surface-water withdrawals, fresh, in Mgal/d
                    Mining, surface-water withdrawals, saline, in Mgal/d
MI_WSWSa
                                                                         */
                    Mining, surface-water withdrawals, total, in Mgal/d
MI_WSWTo
MI_WFrTo
                    Mining, total withdrawals, fresh, in Mgal/d
                                                                   */
MI_WSaTo
                    Mining, total withdrawals, saline, in Mgal/d
                    Mining, total withdrawals, total (fresh+saline), in Mgal/d
                                                                                */
MI_Wtotl
PT_WGWFr
                    Thermoelectric, groundwater withdrawals, fresh, in Mgal/d
             /*
PT WGWSa
                    Thermoelectric, groundwater withdrawals, saline, in Mgal/d
                                                                                */
PT_WGWTo
                    Thermoelectric, groundwater withdrawals, total, in Mgal/d
                                                                                */
PT WSWFr
                    Thermoelectric, surface-water withdrawals, fresh, in Mgal/d
                                                                                */
PT_WSWSa
                    Thermoelectric, surface-water withdrawals, saline, in Mgal/d
                                                                                */
PT_WSWTo
                    Thermoelectric, surface-water withdrawals, total, in Mgal/d
                                                                                */
```

DT ME T	/*	The constant is read table on the Constant March 1 W.
PT_WFrTo	/* /*	Thermoelectric, total withdrawals, fresh, in Mgal/d */, Thermoelectric total with drawals asking in Mgal/d */
PT_WSaTo	/* /*	Thermoelectric, total withdrawals, saline, in Mgal/d */ , Thermoelectric total with drawals total (freely calling) in Mgal/d
PT_Wtotl */	/* ,	Thermoelectric, total withdrawals, total (fresh+saline), in Mgal/d
PT_Power	/*	Thermoelectric, power generated, in gigawatt-hours */ ,
PO_WGWFr	/*	Thermoelectric once-through, groundwater withdrawals, fresh, in
Mgal/d	*/	,
PO_WGWSa	/*	Thermoelectric once-through, groundwater withdrawals, saline, in
Mgal/d	*/	,
PO_WGWTo	/*	Thermoelectric once-through, groundwater withdrawals, total, in
Mgal/d	*/	,
PO_WSWFr	/*	Thermoelectric once-through, surface-water withdrawals, fresh, in
Mgal/d	*/	,
PO_WSWSa	/*	Thermoelectric once-through, surface-water withdrawals, saline, in
Mgal/d	*/	,
PO_WSWTo	/*	Thermoelectric once-through, surface-water withdrawals, total, in
Mgal/d	*/	,
PO_WFrTo	/*	Thermoelectric once-through, total withdrawals, fresh, in Mgal/d
*/	,	
PO_WSaTo	/*	Thermoelectric once-through, total withdrawals, saline, in Mgal/d
*/	,	
PO_WTotl	/*	Thermoelectric once-through, total withdrawals, total, in Mgal/d
*/	,	
PO_Power	/*	Thermoelectric once-through, power generated, in gigawatt-hours
*/	,	
PC_WGWFr	/*	Thermoelectric recirculation, groundwater withdrawals, fresh, in
Mgal/d	*/	,
PC_WGWSa	/*	Thermoelectric recirculation, groundwater withdrawals, saline, in
Mgal/d	*/	,
PC_WGWTo	/*	Thermoelectric recirculation, groundwater withdrawals, total, in
Mgal/d	*/	,
PC_WSWFr	/*	Thermoelectric recirculation, surface-water withdrawals, fresh, in
Mgal/d	*/	,
PC_WSWSa	/*	Thermoelectric recirculation, surface-water withdrawals, saline, in
Mgal/d	*/	,
PC_WSWTo	/*	Thermoelectric recirculation, surface-water withdrawals, total, in
Mgal/d	*/	,
PC_WFrTo	/*	Thermoelectric recirculation, total withdrawals, fresh, in Mgal/d
*/	,	
PC_WSaTo	/*	Thermoelectric recirculation, total withdrawals, saline, in Mgal/d
*/	,	
PC_WTotl	/*	Thermoelectric recirculation, total withdrawals, total (fresh+saline),
in Mgal/d	*/	,
PC_Power	/*	Thermoelectric recirculation, power generated, in gigawatt-hours
*/	,	

```
/*
                   Total groundwater withdrawals, fresh, in Mgal/d*/
TO_WGWFr
TO WGWSa
                   Total groundwater withdrawals, saline, in Mgal/d
TO_WGWTo
             /*
                   Total groundwater withdrawals, total (fresh+saline), in Mgal/d*/
TO_WSWFr
                   Total surface-water withdrawals, fresh, in Mgal/d
TO WSWSa
                   Total surface-water withdrawals, saline, in Mgal/d
TO WSWTo
                   Total surface-water withdrawals, total (fresh+saline), in Mgal/d
      */
                   Total withdrawals, fresh, in Mgal/d
TO WFrTo
TO WSaTo
                   Total withdrawals, saline, in Mgal/d
             /*
                   Total withdrawals, total (fresh+saline), in Mgal/d
TO WTotl
/*Multiplying consumption rates times 2010 block-level population to obtain 2010 water
use estimates*/
BLOCK POP100*
                   PS_WGWFr
                                AS
                                       Est PS WGWFr 2010
                                                                        2010 Block-
level population estimate times
                                 Public Supply, groundwater withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PS WGWSa
                                       Est_PS_WGWSa_2010
                                AS
                                                                        2010 Block-
level population estimate times
                                 Public Supply, groundwater withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK_POP100*
                   PS_WGWTo
                                AS
                                       Est_PS_WGWTo_2010
                                                                        2010 Block-
level population estimate times
                                 Public Supply, groundwater withdrawals, total, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PS WSWFr
                                       Est PS WSWFr 2010
                                AS
                                                                        2010 Block-
                                 Public Supply, surface-water withdrawals, fresh, in
level population estimate times
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PS WSWSa
                                AS
                                       Est PS WSWSa 2010
                                                                        2010 Block-
level population estimate times
                                 Public Supply, surface-water withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK_POP100*
                   PS_WSWTo
                                AS
                                       Est_PS_WSWTo_2010
                                                                        2010 Block-
level population estimate times
                                 Public Supply, surface-water withdrawals, total, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   PS_WFrTo
                                       Est_PS_WFrTo_2010 /*
                                                                 2010 Block-level
                                AS
population estimate times Public Supply, total withdrawals, fresh, in Mgal/dDivided by
Total Population (PS-TOPop)
                                 */,
BLOCK POP100*
                   PS WSaTo
                                AS
                                       Est PS WSaTo 2010 /*
                                                                 2010 Block-level
population estimate times Public Supply, total withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   PS_Wtotl
                                AS
                                       Est_PS_Wtotl_2010 /*
                                                                 2010 Block-level
population estimate times Public Supply, total withdrawals, total (fresh+saline), in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   DO WGWFr AS
                                       Est DO WGWFr 2010
                                                                        2010 Block-
level population estimate times
                                Domestic, self-supplied groundwater withdrawals,
```

Divided by Total Population (PS-TOPop) */,

fresh. in Mgal/d

```
BLOCK POP100*
                   DO WSWFr
                                AS
                                       Est DO WSWFr 2010
                                                                 /*
                                                                        2010 Block-
level population estimate times
                                Domestic, self-supplied surface-water withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   DO WFrTo
                                AS
                                       Est DO WFrTo 2010/*
                                                                 2010 Block-level
population estimate times Domestic, total self-supplied withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
```

BLOCK_POP100* DO_PSDel AS Est_DO_PSDel_2010 /* 2010 Block-level population estimate times Domestic, deliveries from Public Supply, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK POP100* 2010 Block-IN_WGWFr AS Est IN WGWFr 2010 level population estimate times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* IN WGWSa AS Est IN WGWSa 2010 2010 Blocklevel population estimate times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK_POP100* IN WGWTo Est IN WGWTo 2010 AS 2010 Blocklevel population estimate times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK_POP100* IN_WSWFr AS Est_IN_WSWFr_2010/* 2010 Block-level population estimate times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* IN WSWSa Est IN WSWSa 2010/* AS 2010 Block-level population estimate times Industrial, self-supplied surface-water withdrawals, saline, in Divided by Total Population (PS-TOPop) */, Mgal/d BLOCK POP100* IN WSWTo AS Est IN WSWTo 2010 2010 Blocklevel population estimate times Industrial, self-supplied surface-water withdrawals, total. in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK_POP100* IN_WFrTo AS Est_IN_WFrTo_2010 /* 2010 Block-level population estimate times Industrial, self-supplied total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, Est_IN_WSaTo_2010 /* BLOCK_POP100* IN_WSaTo AS 2010 Block-level population estimate times Industrial, self-supplied total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* IN Wtotl AS Est IN Wtotl 2010 /* 2010 Block-level population estimate times Industrial, self-supplied total withdrawals, total (fresh+saline), Divided by Total Population (PS-TOPop) */, in Mgal/d BLOCK_POP100* IR_WGWFr AS Est_IR_WGWFr_2010 2010 Blocklevel population estimate times Irrigation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK_POP100* IR_WSWFr AS Est_IR_WSWFr_2010 /* 2010 Block-level

population estimate times Irrigation, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IR_WFrTo AS Est_IR_WFrTo_2010 /* 2010 Block-level population estimate times Irrigation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IC_WGWFr AS Est_IC_WGWFr_2010/* 2010 Block-level population estimate times Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IC_WSWFr AS Est_IC_WSWFr_2010 /* 2010 Block-level population estimate times Irrigation-Crop, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IC_WFrTo AS Est_IC_WFrTo_2010 /* 2010 Block-level population estimate times Irrigation-Crop, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IG_WGWFr AS Est_IG_WGWFr_2010 /* 2010 Block-level population estimate times Irrigation-Golf, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IG_WSWFr AS Est_IG_WSWFr_2010 /* 2010 Block-level population estimate times Irrigation-Golf, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* IG_WFrTo AS Est_IG_WFrTo_2010 /* 2010 Block-level population estimate times Irrigation-Golf, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* LI_WGWFr AS Est_LI_WGWFr_2010/* 2010 Block-level population estimate times Livestock, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* LI_WSWFr AS Est_LI_WSWFr_2010 /* 2010 Block-level population estimate times Livestock, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* LI_WFrTo AS Est_LI_WFrTo_2010 /* 2010 Block-level population estimate times Livestock, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* AQ_WGWFr AS Est_AQ_WGWFr_2010 /* 2010 Block-level population estimate times Aquaculture, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

- BLOCK_POP100* AQ_WGWSa AS Est_AQ_WGWSa_2010 /* 2010 Block-level population estimate times Aquaculture, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WGWTo AS Est_AQ_WGWTo_2010 /* 2010 Block-level population estimate times Aquaculture, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WSWFr AS Est_AQ_WSWFr_2010 /* 2010 Block-level population estimate times Aquaculture, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WSWSa AS Est_AQ_WSWSa_2010 /* 2010 Block-level population estimate times Aquaculture, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WSWTo AS Est_AQ_WSWTo_2010 /* 2010 Block-level population estimate times Aquaculture, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WFrTo AS Est_AQ_WFrTo_2010/* 2010 Block-level population estimate times Aquaculture, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WSaTo AS Est_AQ_WSaTo_2010/* 2010 Block-level population estimate times Aquaculture, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WTotl AS Est_AQ_WTotl_2010 /* 2010 Block-level population estimate times Aquaculture, total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI_WGWFr AS Est_MI_WGWFr_2010 /* 2010 Block-level population estimate times Mining, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI_WGWSa AS Est_MI_WGWSa_2010 /* 2010 Block-level population estimate times Mining, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI_WGWTo AS Est_MI_WGWTo_2010 /* 2010 Block-level population estimate times Mining, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI_WSWFr AS Est_MI_WSWFr_2010 /* 2010 Block-level population estimate times Mining, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI_WSWSa AS Est_MI_WSWSa_2010 /* 2010 Block-level population estimate times Mining, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI_WSWTo AS Est_MI_WSWTo_2010 /* 2010 Block-level population estimate times Mining, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI_WFrTo AS Est_MI_WFrTo_2010 /* 2010 Block-level population estimate times Mining, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
2010 Block-level
BLOCK POP100*
                   MI_WSaTo
                                       Est MI WSaTo 2010 /*
                                AS
population estimate times Mining, total withdrawals, saline, in Mgal/d
                                                                       Divided by
Total Population (PS-TOPop)
                                */,
BLOCK POP100*
                   MI Wtotl
                                AS
                                       Est MI Wtotl 2010 /*
                                                                2010 Block-level
population estimate times Mining, total withdrawals, total (fresh+saline), in Mgal/d
      Divided by Total Population (PS-TOPop) */,
                                       Est_PT_WGWFr_2010
BLOCK POP100*
                   PT WGWFr
                                AS
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, groundwater withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PT WGWSa
                                AS
                                       Est PT WGWSa 2010
level population estimate times
                                Thermoelectric, groundwater withdrawals, saline, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WGWTo AS
                                       Est PT WGWTo 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, groundwater withdrawals, total, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WSWFr
                                AS
                                       Est PT WSWFr 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, surface-water withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */.
BLOCK POP100*
                   PT WSWSa
                                AS
                                       Est PT WSWSa 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, surface-water withdrawals, saline, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WSWTo
                                AS
                                       Est PT WSWTo 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, surface-water withdrawals, total, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
                   PT WFrTo
                                       Est PT WFrTo 2010 /*
                                                                 2010 Block-level
BLOCK POP100*
                                AS
population estimate times Thermoelectric, total withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
                   PT WSaTo
BLOCK POP100*
                                AS
                                       Est PT WSaTo 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric, total withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT Wtotl
                                AS
                                       Est PT Wtotl 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric, total withdrawals, total (fresh+saline), in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PO WGWFr
                                       Est PO WGWFr 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric once-through, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                       */,
BLOCK POP100*
                                       Est PO_WGWSa_2010
                   PO_WGWSa
                                AS
                                                                       2010 Block-
level population estimate times
                                Thermoelectric once-through, groundwater
```

Divided by Total Population (PS-TOPop)

Thermoelectric once-through, groundwater

Divided by Total Population (PS-TOPop) */,

Est PO WGWTo 2010

*/,

2010 Block-

withdrawals, saline, in Mgal/d

level population estimate times

withdrawals, total, in Mgal/d

PO WGWTo

AS

BLOCK POP100*

```
BLOCK POP100*
                   PO WSWFr
                                       Est PO WSWFr 2010
                                                                        2010 Block-
                                AS
level population estimate times
                                Thermoelectric once-through, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
BLOCK POP100*
                                       Est PO WSWSa 2010
                   PO WSWSa
                                                                        2010 Block-
                                Thermoelectric once-through, surface-water
level population estimate times
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                       */,
BLOCK POP100*
                                       Est PO WSWTo 2010
                   PO WSWTo
                                                                        2010 Block-
                                Thermoelectric once-through, surface-water
level population estimate times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
                                       Est PO WFrTo 2010/*
BLOCK POP100*
                   PO WFrTo
                                AS
                                                                 2010 Block-level
population estimate times Thermoelectric once-through, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
                   PO WSaTo
BLOCK POP100*
                                AS
                                       Est PO WSaTo 2010/*
                                                                 2010 Block-level
population estimate times Thermoelectric once-through, total withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
                                                                 2010 Block-level
BLOCK POP100*
                   PO WTotl
                                AS
                                       Est PO WTotl 2010 /*
population estimate times Thermoelectric once-through, total withdrawals, total, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PO Power
                                AS
                                       Est PO Power 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric once-through, power generated, in gigawatt-
hours Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PC WGWFr
                                       Est PC WGWFr 2010
                                AS
                                                                        2010 Block-
level population estimate times
                                Thermoelectric recirculation, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                                       Est PC WGWSa 2010
                   PC WGWSa
                                AS
                                                                        2010 Block-
level population estimate times
                                Thermoelectric recirculation, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                                       Est PC WGWTo 2010
                   PC WGWTo
                                AS
                                                                        2010 Block-
                                Thermoelectric recirculation, groundwater
level population estimate times
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                   PC WSWFr
                                AS
                                       Est PC WSWFr 2010
                                                                        2010 Block-
level population estimate times
                                Thermoelectric recirculation, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK POP100*
                                       Est PC WSWSa 2010
                   PC WSWSa
                                AS
                                                                        2010 Block-
level population estimate times
                                Thermoelectric recirculation, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop)
                                                                        */,
BLOCK_POP100*
                   PC_WSWTo
                                       Est_PC_WSWTo_2010
                                                                        2010 Block-
                                AS
level population estimate times
                                Thermoelectric recirculation, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PC WFrTo
                                       Est PC WFrTo 2010 /*
                                AS
                                                                 2010 Block-level
population estimate times Thermoelectric recirculation, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PC WSaTo
                                AS
                                       Est PC WSaTo 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric recirculation, total withdrawals, saline, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
```

```
BLOCK POP100*
                   PC WTotl
                                AS
                                       Est_PC_WTotl_2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric recirculation, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   TO WGWFr
                                AS
                                       Est_TO_WGWFr_2010
                                                                       2010 Block-
level population estimate times
                                Total groundwater withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   TO WGWSa
                                AS
                                       Est TO WGWSa 2010
                                                                       2010 Block-
level population estimate times
                                Total groundwater withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   TO WGWTo
                                AS
                                       Est TO WGWTo 2010
                                                                       2010 Block-
                                Total groundwater withdrawals, total (fresh+saline). in
level population estimate times
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   TO_WSWFr
                                       Est_TO_WSWFr_2010
                                AS
                                                                       2010 Block-
level population estimate times
                                Total surface-water withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   TO_WSWSa
                                AS
                                       Est_TO_WSWSa_2010
                                                                       2010 Block-
level population estimate times
                                Total surface-water withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
                                       Est TO WSWTo_2010
BLOCK POP100*
                   TO WSWTo
                                AS
                                                                       2010 Block-
level population estimate times
                                Total surface-water withdrawals, total (fresh+saline), in
             Divided by Total Population (PS-TOPop) */.
Mgal/d
BLOCK POP100*
                   TO_WFrTo
                                AS
                                       Est TO WFrTo 2010/*
                                                                 2010 Block-level
population estimate times Total withdrawals, fresh, in Mgal/d
                                                                 Divided by Total
Population (PS-TOPop)
                          */,
                                       Est TO WSaTo 2010/*
BLOCK_POP100*
                   TO_WSaTo
                                                                 2010 Block-level
                                AS
population estimate times Total withdrawals, saline, in Mgal/d
                                                                 Divided by Total
Population (PS-TOPop)
                          */,
BLOCK POP100*
                   TO_WTotl
                                       Est TO WTotl 2010 /*
                                                                 2010 Block-level
                                AS
population estimate times Total withdrawals, total (fresh+saline), in Mgal/d
      Divided by Total Population (PS-TOPop) */,
```

/*Multiplying consumption rates times 2015 block-level population projection to obtain 2015 water use projection*/

CALCULATED BLOCK_PROJ_2015* PS_WGWFr AS Proj_PS_WGWFr_2015 /*
2015 Block-level population projection share times Public Supply, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PS_WGWSa AS Proj_PS_WGWSa_2015 /*

2015 Block-level population projection share times Public Supply, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* PS_WGWTo AS Proj_PS_WGWTo_2015 /*

2015 Block-level population projection share times Public Supply, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK PROJ 2015* PS WSWFr
                                             AS
                                                    Proj_PS_WSWFr_2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Public Supply, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* PS WSWSa
                                             AS
                                                    Proj PS WSWSa 2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                    Proj PS WSWTo 2015
CALCULATED BLOCK PROJ 2015* PS WSWTo
                                            AS
                                                                              /*
      2015 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* PS_WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PS_WSaTo
                                             AS
                                                    Proj_PS_WSaTo_2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PS Wtotl
                                             AS
                                                    Proj PS Wtotl 2015 /*
                                                                              2015
Block-level population projection share times
                                             Public Supply, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2015* DO WGWFr
                                            AS
                                                    Proi DO WGWFr 2015
      2015 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* DO WSWFr
                                                    Proj DO WSWFr 2015
                                             AS
      2015 Block-level population projection share times
                                                          Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* DO WFrTo
                                             AS
                                                    Proj DO WFrTo 2015
                                                          Domestic, total self-
      2015 Block-level population projection share times
supplied withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* DO PSDel
                                             AS
                                                    Proj DO PSDel 2015/*
                                                                              2015
Block-level population projection share times
                                             Domestic, deliveries from Public Supply,
            Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK PROJ 2015* IN WGWFr
                                                    Proj IN WGWFr 2015
                                             AS
      2015 Block-level population projection share times
                                                          Industrial, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* IN WGWSa
                                                    Proj IN WGWSa 2015
                                             AS
      2015 Block-level population projection share times
                                                          Industrial, self-supplied
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* IN WGWTo
                                             AS
                                                    Proj IN WGWTo 2015
      2015 Block-level population projection share times
                                                          Industrial, self-supplied
```

```
groundwater withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* IN_WSWFr
                                              AS
                                                    Proj_IN_WSWFr_2015
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
       */,
CALCULATED BLOCK PROJ 2015* IN WSWSa
                                              AS
                                                    Proj IN WSWSa 2015
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* IN WSWTo
                                              AS
                                                    Proj IN WSWTo 2015
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
                                              Divided by Total Population (PS-TOPop)
surface-water withdrawals, total, in Mgal/d
      */,
                                                    Proj_IN_WFrTo_2015
CALCULATED BLOCK_PROJ_2015* IN_WFrTo
                                              AS
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* IN WSaTo
                                                     Proj IN WSaTo 2015
                                              AS
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* IN_Wtotl
                                              AS
                                                     Proj_IN_Wtotl_2015 /*
                                                                               2015
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2015* IR WGWFr
                                                    Proj IR WGWFr 2015
                                              AS
      2015 Block-level population projection share times
                                                           Irrigation, groundwater
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* IR WSWFr
                                                    Proj IR WSWFr 2015
                                              AS
      2015 Block-level population projection share times
                                                           Irrigation, surface-water
                                 Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* IR WFrTo
                                              AS
                                                    Proj IR WFrTo 2015
                                                                               /*
      2015 Block-level population projection share times
                                                           Irrigation, total
                                 Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* IC_WGWFr
                                              AS
                                                    Proj_IC_WGWFr_2015
      2015 Block-level population projection share times
                                                           Irrigation-Crop,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* IC_WSWFr
                                              AS
                                                    Proj_IC_WSWFr_2015
```

2015 Block-level population projection share times

water withdrawals, fresh, in Mgal/d

Irrigation-Crop, surface-

Divided by Total Population (PS-TOPop) */,

CALCULATED BLOCK_PROJ_2015* IC_WFrTo AS Proj_IC_WFrTo_2015/* 2015 Block-level population projection share times Irrigation-Crop, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK PROJ 2015* IG WGWFr
                                              AS
                                                    Proj IG WGWFr 2015
      2015 Block-level population projection share times
                                                           Irrigation-Golf.
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* IG_WSWFr
                                              AS
                                                    Proj IG WSWFr 2015
      2015 Block-level population projection share times
                                                           Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* IG WFrTo
                                              AS
                                                    Proj_IG_WFrTo_2015
      2015 Block-level population projection share times
                                                           Irrigation-Golf, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK PROI 2015* LI WGWFr
                                            AS
                                                   Proj LI WGWFr 2015
      2015 Block-level population projection share times
                                                         Livestock, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* LI WSWFr
                                            AS
                                                   Proj LI WSWFr 2015
      2015 Block-level population projection share times
                                                         Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* LI WFrTo
                                            AS
                                                   Proj LI WFrTo 2015/*
                                                                             2015
Block-level population projection share times
                                            Livestock, total withdrawals, fresh, in
Mgal/d
            Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* AO WGWFr AS
                                                   Proj AO WGWFr 2015
      2015 Block-level population projection share times
                                                         Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* AO WGWSa AS
                                                   Proj AO WGWSa 2015
      2015 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* AQ_WGWTo AS
                                                   Proj_AQ_WGWTo_2015
      2015 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* AQ WSWFr AS
                                                   Proj AQ WSWFr 2015
      2015 Block-level population projection share times
                                                         Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* AO WSWSa AS
                                                   Proj AO WSWSa 2015
      2015 Block-level population projection share times
                                                         Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2015* AO WSWTo AS
                                                   Proj AO WSWTo 2015
                                                                             /*
      2015 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* AQ WFrTo
                                             AS
                                                   Proj AQ WFrTo 2015
                                                                             /*
      2015 Block-level population projection share times
                                                          Aquaculture, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* AQ WSaTo
                                             AS
                                                   Proj AQ WSaTo 2015
                                                          Aquaculture, total
      2015 Block-level population projection share times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROI 2015* AO WTotl
                                             AS
                                                   Proj AO WTotl 2015
                                                          Aquaculture, total
      2015 Block-level population projection share times
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* MI_WGWFr
                                            AS
                                                   Proj_MI_WGWFr_2015
      2015 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_WGWSa AS
                                                   Proj_MI_WGWSa_2015
      2015 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* MI WGWTo AS
                                                   Proj MI WGWTo 2015
      2015 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */.
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_WSWFr
                                             AS
                                                   Proj MI WSWFr 2015
      2015 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* MI WSWSa
                                                   Proj_MI_WSWSa_2015
                                            AS
      2015 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* MI WSWTo AS
                                                   Proj MI WSWTo 2015
      2015 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
CALCULATED BLOCK_PROJ_2015* MI_WFrTo
                                                   Proj MI WFrTo 2015
                                             AS
      2015 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_WSaTo
                                                   Proj_MI_WSaTo_2015
                                             AS
      2015 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_Wtotl
                                                   Proj_MI_Wtotl_2015 /*
                                                                             2015
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PT_WGWFr
                                                   Proj_PT_WGWFr 2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
/*
CALCULATED BLOCK PROJ 2015* PT WGWSa
                                             AS
                                                   Proj_PT_WGWSa_2015
      2015 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* PT_WGWTo AS
                                                   Proj_PT_WGWTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* PT_WSWFr
                                                   Proj PT WSWFr 2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* PT_WSWSa
                                                   Proj_PT_WSWSa_2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* PT_WSWTo AS
                                                   Proj_PT_WSWTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric, surface-
                                      Divided by Total Population (PS-TOPop)
water withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2015* PT_WFrTo
                                                   Proj_PT_WFrTo_2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* PT_WSaTo
                                             AS
                                                   Proj_PT_WSaTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* PT Wtotl
                                                   Proj PT Wtotl 2015 /*
                                             AS
                                                                             2015
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2015* PO WGWFr AS
                                                   Proj PO WGWFr 2015
                                                          Thermoelectric once-
      2015 Block-level population projection share times
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2015* PO WGWSa AS
                                                   Proj PO WGWSa 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
                                                                             /*
CALCULATED BLOCK PROJ 2015* PO WGWTo AS
                                                   Proj PO WGWTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2015* PO WSWFr AS
                                                   Proj PO WSWFr 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2015* PO WSWSa AS
                                                   Proj PO WSWSa 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
```

```
through, surface-water withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2015* PO_WSWTo AS
                                                    Proj PO WSWTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
                                                    Divided by Total Population (PS-
through, surface-water withdrawals, total, in Mgal/d
TOPop)
             */,
CALCULATED BLOCK PROJ 2015* PO WFrTo
                                             AS
                                                    Proj PO WFrTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* PO WSaTo
                                             AS
                                                    Proj PO WSaTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* PO WTotl
                                             AS
                                                    Proj PO WTotl 2015/*
                                                                              2015
Block-level population projection share times
                                             Thermoelectric once-through, total
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PO Power
                                                    Proj PO Power 2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* PC WGWFr
                                                    Proj PC WGWFr 2015
                                            AS
                                                                              /*
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK_PROJ_2015* PC_WGWSa AS
                                                    Proj_PC_WGWSa_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WGWTo AS
                                                    Proj_PC_WGWTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PC WSWFr AS
                                                    Proj PC WSWFr 2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WSWSa
                                                    Proj_PC_WSWSa_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WSWTo AS
                                                    Proj_PC_WSWTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
```

```
/*
CALCULATED BLOCK PROJ 2015* PC WFrTo
                                             AS
                                                   Proj_PC_WFrTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* PC_WSaTo
                                             AS
                                                   Proj_PC_WSaTo_2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2015* PC_WTotl
                                                   Proj PC WTotl 2015/*
                                             AS
                                                                              2015
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* TO_WGWFr AS
                                                   Proj_TO_WGWFr_2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* TO_WGWSa AS
                                                   Proj_TO_WGWSa_2015
      2015 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* TO WGWTo AS
                                                   Proj TO WGWTo 2015
      2015 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* TO WSWFr AS
                                                   Proj TO WSWFr 2015
      2015 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* TO WSWSa AS
                                                   Proj TO WSWSa 2015
      2015 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* TO_WSWTo AS
                                                   Proj_TO_WSWTo_2015
      2015 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* TO WFrTo
                                                   Proj TO WFrTo 2015
                                             AS
                                                          Total withdrawals, fresh, in
      2015 Block-level population projection share times
Mgal/d
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK_PROJ_2015* TO_WSaTo
                                                   Proj_TO_WSaTo_2015
                                             AS
      2015 Block-level population projection share times
                                                          Total withdrawals, saline,
in Mgal/d
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK PROJ 2015* TO WTotl
                                             AS
                                                   Proj TO WTotl 2015
      2015 Block-level population projection share times
                                                          Total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
```

/*Multiplying consumption rates times 2020 block-level population projection to obtain 2020 water use projection*/

```
CALCULATED BLOCK PROJ 2020* PS WGWFr AS
                                                    Proj PS WGWFr 2020
      2020 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* PS WGWSa AS
                                                    Proj PS WGWSa 2020
      2020 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* PS WGWTo AS
                                                    Proj PS WGWTo 2020
      2020 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROI 2020* PS WSWFr
                                            AS
                                                    Proj_PS_WSWFr_2020
      2020 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                   Proj_PS_WSWSa_2020
CALCULATED BLOCK_PROJ_2020* PS_WSWSa
                                            AS
      2020 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PS WSWTo AS
                                                    Proj PS WSWTo 2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PS WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PS WSaTo
                                             AS
                                                    Proj PS WSaTo 2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PS Wtotl
                                             AS
                                                    Proj PS Wtotl 2020 /*
                                                                              2020
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
                                                    Proj DO WGWFr 2020
CALCULATED BLOCK PROJ 2020* DO WGWFr
                                            AS
      2020 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* DO_WSWFr
                                             AS
                                                    Proj_DO_WSWFr_2020
      2020 Block-level population projection share times
                                                          Domestic, self-supplied
                                             Divided by Total Population (PS-TOPop)
surface-water withdrawals, fresh, in Mgal/d
      */,
CALCULATED BLOCK_PROJ_2020* DO_WFrTo
                                             AS
                                                    Proj_DO_WFrTo_2020
      2020 Block-level population projection share times
                                                          Domestic, total self-
supplied withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* DO PSDel
                                             AS
                                                    Proj DO PSDel 2020/*
                                                                              2020
Block-level population projection share times
                                             Domestic, deliveries from Public Supply,
in Mgal/d
            Divided by Total Population (PS-TOPop) */,
```

CALCULATED BLOCK PROJ 2020* IN WGWFr AS Proj IN WGWFr 2020 2020 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2020* IN_WGWSa AS Proj_IN_WGWSa_2020 2020 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IN_WGWTo Proj_IN_WGWTo_2020 AS 2020 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IN_WSWFr Proj IN WSWFr 2020 AS 2020 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IN_WSWSa AS Proj_IN_WSWSa_2020 2020 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IN_WSWTo AS Proj_IN_WSWTo_2020 2020 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2020* IN WFrTo Proj IN WFrTo 2020 AS 2020 Block-level population projection share times Industrial, self-supplied total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2020* IN WSaTo Proj IN WSaTo 2020 AS 2020 Block-level population projection share times Industrial, self-supplied total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2020* IN Wtotl Proj IN Wtotl 2020 /* 2020 Block-level population projection share times Industrial, self-supplied total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IR_WGWFr AS Proj_IR_WGWFr_2020 2020 Block-level population projection share times Irrigation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IR_WSWFr Proj_IR_WSWFr_2020 AS 2020 Block-level population projection share times Irrigation, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2020* IR WFrTo Proj IR WFrTo 2020 /* AS 2020 Block-level population projection share times Irrigation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK_PROJ_2020* IC_WGWFr
                                             AS
                                                   Proj_IC_WGWFr_2020
      2020 Block-level population projection share times
                                                          Irrigation-Crop,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* IC WSWFr
                                             AS
                                                   Proj IC WSWFr 2020
      2020 Block-level population projection share times
                                                          Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* IC_WFrTo
                                             AS
                                                   Proj_IC_WFrTo_2020/*
                                                                              2020
Block-level population projection share times
                                             Irrigation-Crop, total withdrawals, fresh,
            Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2020* IG_WGWFr
                                             AS
                                                   Proj_IG_WGWFr_2020
      2020 Block-level population projection share times
                                                          Irrigation-Golf.
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2020* IG_WSWFr
                                             AS
                                                   Proj_IG_WSWFr_2020
      2020 Block-level population projection share times
                                                          Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* IG WFrTo
                                                   Proj IG WFrTo 2020
                                             AS
      2020 Block-level population projection share times
                                                          Irrigation-Golf, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* LI WGWFr
                                             AS
                                                   Proj LI WGWFr 2020
      2020 Block-level population projection share times
                                                          Livestock, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* LI WSWFr
                                             AS
                                                   Proj LI WSWFr 2020
      2020 Block-level population projection share times
                                                          Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* LI_WFrTo
                                             AS
                                                   Proj_LI_WFrTo_2020/*
                                                                              2020
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* AQ WGWFr AS
                                                   Proj AQ WGWFr 2020
      2020 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* AO WGWSa AS
                                                   Proj AO WGWSa 2020
      2020 Block-level population projection share times
                                                          Aquaculture, groundwater
```

withdrawals, saline, in Mgal/d

Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK PROJ 2020* AO WGWTo AS
                                                   Proj AO WGWTo 2020
      2020 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2020* AQ WSWFr AS
                                                   Proj AQ WSWFr 2020
      2020 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* AQ WSWSa AS
                                                   Proj AQ WSWSa 2020
      2020 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROI 2020* AO WSWTo AS
                                                   Proj AO WSWTo 2020
      2020 Block-level population projection share times
                                                         Aquaculture, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* AQ_WFrTo
                                            AS
                                                   Proj AO WFrTo 2020
                                                                             /*
      2020 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* AQ WSaTo
                                            AS
                                                   Proj AQ WSaTo 2020
      2020 Block-level population projection share times
                                                          Aquaculture, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* AQ WTotl
                                             AS
                                                   Proj AQ WTotl 2020
                                                         Aquaculture, total
      2020 Block-level population projection share times
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* MI WGWFr
                                            AS
                                                   Proj MI WGWFr 2020
      2020 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* MI_WGWSa AS
                                                   Proj_MI_WGWSa_2020
      2020 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* MI WGWTo AS
                                                   Proj MI WGWTo 2020
      2020 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* MI WSWFr
                                                   Proj MI WSWFr 2020
                                            AS
      2020 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* MI_WSWSa
                                                   Proj_MI_WSWSa_2020
                                            AS
      2020 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* MI_WSWTo AS
                                                   Proj_MI_WSWTo_2020
      2020 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2020* MI WFrTo
                                                   Proj MI WFrTo 2020
                                             AS
      2020 Block-level population projection share times
                                                          Mining, total withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2020* MI_WSaTo
                                             AS
                                                   Proj MI WSaTo 2020
      2020 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* MI Wtotl
                                                   Proj MI Wtotl 2020 /*
                                                                              2020
Block-level population projection share times
                                             Mining, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2020* PT WGWFr
                                             AS
                                                   Proj PT WGWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PT WGWSa
                                             AS
                                                   Proj PT WGWSa 2020
      2020 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PT WGWTo AS
                                                   Proj PT WGWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PT WSWFr
                                             AS
                                                   Proj PT WSWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2020
      2020 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PT WSWTo AS
                                                   Proj PT WSWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PT WFrTo
                                                   Proj PT WFrTo 2020
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PT WSaTo
                                             AS
                                                   Proj PT WSaTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PT Wtotl
                                             AS
                                                   Proj PT Wtotl 2020 /*
                                                                              2020
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK_PROJ_2020* PO_WGWFr AS
                                                   Proj PO WGWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
                                                                             /*
CALCULATED BLOCK_PROJ_2020* PO_WGWSa AS
                                                   Proj_PO_WGWSa_2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
```

```
CALCULATED BLOCK PROI 2020* PO WGWTo AS
                                                   Proj PO WGWTo 2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2020* PO_WSWFr AS
                                                   Proj_PO_WSWFr_2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2020* PO_WSWSa AS
                                                   Proj PO WSWSa 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2020* PO WSWTo AS
                                                   Proj PO WSWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2020* PO_WFrTo
                                             AS
                                                   Proj_PO_WFrTo_2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2020* PO_WSaTo
                                             AS
                                                   Proj_PO_WSaTo_2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2020* PO WTotl
                                             AS
                                                   Proj PO WTotl 2020/*
                                                                              2020
Block-level population projection share times
                                             Thermoelectric once-through, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2020* PO Power
                                                   Proj PO Power 2020
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PC WGWFr
                                             AS
                                                   Proj PC WGWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2020* PC WGWSa AS
                                                   Proj PC WGWSa 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2020* PC WGWTo AS
                                                   Proj PC WGWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK PROJ 2020* PC WSWFr
                                                   Proj PC WSWFr 2020
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric
```

```
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PC_WSWSa
                                             AS
                                                    Proj_PC_WSWSa_2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PC WSWTo AS
                                                    Proj PC WSWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
                                                          Divided by Total Population
recirculation, surface-water withdrawals, total, in Mgal/d
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PC WFrTo
                                                    Proj PC WFrTo 2020
                                                                              /*
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PC WSaTo
                                             AS
                                                    Proj PC WSaTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2020* PC WTotl
                                             AS
                                                    Proj PC WTotl 2020/*
                                                                              2020
                                             Thermoelectric recirculation, total
Block-level population projection share times
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* TO WGWFr AS
                                                    Proj TO WGWFr 2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* TO WGWSa AS
                                                    Proj TO WGWSa 2020
      2020 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* TO_WGWTo AS
                                                    Proj_TO_WGWTo_2020
      2020 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* TO WSWFr AS
                                                    Proj TO WSWFr 2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* TO_WSWSa AS
                                                    Proj_TO_WSWSa_2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* TO WSWTo AS
                                                    Proj TO WSWTo 2020
      2020 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
CALCULATED BLOCK PROJ 2020* TO WFrTo
                                             AS
                                                   Proj_TO_WFrTo_2020
      2020 Block-level population projection share times
                                                          Total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK_PROJ_2020* TO WSaTo
                                                   Proj TO WSaTo 2020
      2020 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop)
in Mgal/d
                                                   */,
CALCULATED BLOCK PROJ 2020* TO WTotl
                                             AS
                                                   Proj TO WTotl 2020
      2020 Block-level population projection share times
                                                          Total withdrawals, total
                         Divided by Total Population (PS-TOPop) */.
(fresh+saline), in Mgal/d
/*Multiplying consumption rates times 2025 block-level population projection to obtain
2025 water use projection*/
CALCULATED BLOCK_PROJ_2025* PS_WGWFr AS
                                                   Proj PS WGWFr 2025
      2025 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PS WGWSa AS
                                                   Proj PS WGWSa 2025
      2025 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2025* PS WGWTo AS
                                                   Proj PS WGWTo 2025
      2025 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2025* PS WSWFr
                                           AS
                                                   Proj PS WSWFr 2025
      2025 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROI 2025* PS WSWSa
                                            AS
                                                   Proj PS WSWSa 2025
                                                                             /*
                                                          Public Supply, surface-
      2025 Block-level population projection share times
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* PS WSWTo AS
                                                   Proj PS WSWTo 2025
                                                                             /*
      2025 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* PS WFrTo
                                             AS
                                                   Proj_PS_WFrTo_2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PS WSaTo
                                             AS
                                                   Proj PS WSaTo 2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PS_Wtotl
                                             AS
                                                   Proj_PS_Wtotl_2025 /*
                                                                              2025
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* DO WGWFr AS
                                                   Proj DO WGWFr 2025
      2025 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

- CALCULATED BLOCK PROJ 2025* DO WSWFr AS Proj DO WSWFr 2025 2025 Block-level population projection share times Domestic, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* DO_WFrTo AS Proj_DO_WFrTo_2025 2025 Block-level population projection share times Domestic, total selfsupplied withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* DO_PSDel Proj DO PSDel 2025/* AS 2025 Block-level population projection share times Domestic, deliveries from Public Supply, Divided by Total Population (PS-TOPop) */, in Mgal/d CALCULATED BLOCK_PROJ_2025* IN_WGWFr AS Proj_IN_WGWFr_2025 2025 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2025* IN_WGWSa Proj IN WGWSa 2025 AS 2025 Block-level population projection share times Industrial, self-supplied Divided by Total Population (PS-TOPop) groundwater withdrawals, saline, in Mgal/d */, CALCULATED BLOCK PROI 2025* IN WGWTo Proj IN WGWTo 2025 AS 2025 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* IN_WSWFr AS Proj IN WSWFr 2025 2025 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* IN_WSWSa AS Proj_IN_WSWSa_2025 2025 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROI 2025* IN WSWTo Proj IN WSWTo 2025 AS 2025 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
- 2025 Block-level population projection share times Industrial, self-supplied total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* IN WSaTo Proj IN WSaTo 2025 AS 2025 Block-level population projection share times Industrial, self-supplied total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* IN_Wtotl Proj_IN_Wtotl_2025 /* 2025 Block-level population projection share times Industrial, self-supplied total

AS

Proj_IN_WFrTo_2025

CALCULATED BLOCK_PROJ_2025* IN_WFrTo

```
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* IR WGWFr
                                              AS
                                                    Proj_IR_WGWFr_2025
      2025 Block-level population projection share times
                                                           Irrigation, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2025* IR WSWFr
                                              AS
                                                    Proj_IR_WSWFr_2025
      2025 Block-level population projection share times
                                                           Irrigation, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2025* IR_WFrTo
                                              AS
                                                    Proj_IR_WFrTo_2025
      2025 Block-level population projection share times
                                                           Irrigation, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* IC WGWFr
                                              AS
                                                    Proj IC WGWFr 2025
                                                                               /*
      2025 Block-level population projection share times
                                                           Irrigation-Crop,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
                                              AS
CALCULATED BLOCK PROJ 2025* IC WSWFr
                                                    Proj IC WSWFr 2025
      2025 Block-level population projection share times
                                                           Irrigation-Crop, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
                                                                               */,
CALCULATED BLOCK PROJ 2025* IC WFrTo
                                              AS
                                                    Proj_IC_WFrTo_2025/*
                                                                               2025
Block-level population projection share times
                                              Irrigation-Crop, total withdrawals, fresh,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2025* IG_WGWFr
                                              AS
                                                    Proj_IG_WGWFr_2025
      2025 Block-level population projection share times
                                                           Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
```

AS

AS

Proj IG WSWFr 2025

Proj_IG_WFrTo_2025

Divided by Total Population (PS-TOPop)

Divided by Total Population (PS-TOPop) */,

Irrigation-Golf, surface-

Irrigation-Golf, total

/*

CALCULATED BLOCK PROJ 2025* IG WSWFr

CALCULATED BLOCK_PROJ_2025* IG_WFrTo

water withdrawals, fresh, in Mgal/d

withdrawals, fresh, in Mgal/d

2025 Block-level population projection share times

2025 Block-level population projection share times

```
CALCULATED BLOCK PROJ 2025* LI WGWFr
                                             AS
                                                   Proj LI WGWFr 2025
      2025 Block-level population projection share times
                                                          Livestock, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* LI WSWFr
                                             AS
                                                   Proi LI WSWFr 2025
      2025 Block-level population projection share times
                                                          Livestock, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2025* LI WFrTo
                                             AS
                                                   Proj LI WFrTo 2025/*
                                                                             2025
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
CALCULATED BLOCK PROJ 2025* AO WGWFr AS
                                                   Proj_AQ_WGWFr_2025
      2025 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* AQ_WGWSa AS
                                                   Proj AO WGWSa 2025
      2025 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* AQ WGWTo AS
                                                   Proj AQ WGWTo 2025
      2025 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2025* AQ WSWFr AS
                                                   Proj AQ WSWFr 2025
      2025 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* AO WSWSa AS
                                                   Proj AO WSWSa 2025
      2025 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2025* AO WSWTo AS
                                                   Proj AO WSWTo 2025
                                                          Aquaculture, surface-water
      2025 Block-level population projection share times
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* AQ WFrTo
                                            AS
                                                   Proj AQ WFrTo 2025
                                                                             /*
      2025 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* AO WSaTo
                                            AS
                                                   Proj AO WSaTo 2025
      2025 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2025* AO WTotl
                                                   Proj AO WTotl 2025
                                             AS
      2025 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* MI_WGWFr AS
                                                   Proj_MI_WGWFr_2025
      2025 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* MI_WGWSa AS
                                                   Proj MI WGWSa 2025
      2025 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
```

```
Proj MI_WGWTo_2025
CALCULATED BLOCK PROJ 2025* MI WGWTo AS
                                                                             /*
      2025 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* MI WSWFr AS
                                                   Proi MI WSWFr 2025
      2025 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2025* MI WSWSa AS
                                                   Proj MI WSWSa 2025
      2025 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2025* MI WSWTo AS
                                                   Proj MI WSWTo 2025
      2025 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2025* MI_WFrTo
                                             AS
                                                   Proj MI WFrTo 2025
      2025 Block-level population projection share times
                                                          Mining, total withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* MI WSaTo
                                             AS
                                                   Proj MI WSaTo 2025
                                                          Mining, total withdrawals,
      2025 Block-level population projection share times
                   Divided by Total Population (PS-TOPop)
saline, in Mgal/d
                                                          */.
CALCULATED BLOCK PROJ 2025* MI Wtotl
                                                   Proj MI Wtotl 2025 /*
                                                                             2025
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PT WGWFr
                                                   Proj PT WGWFr 2025
                                            AS
      2025 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* PT WGWSa
                                            AS
                                                   Proj_PT_WGWSa_2025
      2025 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* PT_WGWTo AS
                                                   Proj_PT_WGWTo_2025
      2025 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2025* PT WSWFr
                                                   Proj PT WSWFr 2025
                                             AS
      2025 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* PT_WSWSa
                                            AS
                                                   Proj_PT_WSWSa_2025
      2025 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* PT WSWTo AS
                                                   Proj PT WSWTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PT WFrTo
                                             AS
                                                   Proj PT WFrTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
```

CALCULATED BLOCK PROJ 2025* PT WSaTo AS Proj_PT_WSaTo_2025 2025 Block-level population projection share times Thermoelectric, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* PT Wtotl AS Proj PT Wtotl 2025 /* 2025 Block-level population projection share times Thermoelectric, total withdrawals, total Divided by Total Population (PS-TOPop) */, (fresh+saline), in Mgal/d CALCULATED BLOCK PROJ 2025* PO WGWFr Proj PO WGWFr 2025 2025 Block-level population projection share times Thermoelectric oncethrough, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* PO_WGWSa AS Proj_PO_WGWSa_2025 /* 2025 Block-level population projection share times Thermoelectric oncethrough, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* PO WGWTo AS Proj PO WGWTo 2025 2025 Block-level population projection share times Thermoelectric oncethrough, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2025* PO WSWFr Proj PO WSWFr 2025 2025 Block-level population projection share times Thermoelectric oncethrough, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* PO WSWSa AS Proj PO WSWSa 2025 2025 Block-level population projection share times Thermoelectric oncethrough, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* PO WSWTo AS Proj PO WSWTo 2025 Thermoelectric once-2025 Block-level population projection share times through, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2025* PO_WFrTo AS Proj PO WFrTo 2025 2025 Block-level population projection share times Thermoelectric oncethrough, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2025* PO WSaTo AS Proj PO WSaTo 2025 2025 Block-level population projection share times Thermoelectric oncethrough, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* PO WTotl Proj PO WTotl 2025/* AS 2025 Block-level population projection share times Thermoelectric once-through, total withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* PO Power AS Proj PO Power 2025 2025 Block-level population projection share times Thermoelectric once-

```
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* PC_WGWFr AS
                                                   Proj_PC_WGWFr_2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PC WGWSa AS
                                                   Proj PC WGWSa 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PC WGWTo AS
                                                   Proj PC WGWTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
                                                          Divided by Total Population
recirculation, groundwater withdrawals, total, in Mgal/d
(PS-TOPop)
            */,
CALCULATED BLOCK_PROJ_2025* PC_WSWFr
                                             AS
                                                   Proj PC WSWFr 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */.
CALCULATED BLOCK PROJ 2025* PC WSWSa AS
                                                   Proj PC WSWSa 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PC_WSWTo AS
                                                   Proj_PC_WSWTo_2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PC WFrTo
                                             AS
                                                   Proj PC WFrTo 2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* PC WSaTo
                                             AS
                                                   Proj PC WSaTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */.
CALCULATED BLOCK_PROJ_2025* PC_WTotl
                                             AS
                                                   Proj PC WTotl 2025/*
                                                                              2025
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* TO WGWFr AS
                                                   Proj TO WGWFr 2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2025* TO WGWSa AS
                                                   Proj TO WGWSa 2025
      2025 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
```

```
CALCULATED BLOCK PROI 2025* TO WGWTo AS
                                                   Proj TO WGWTo 2025
                                                                             /*
      2025 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* TO_WSWFr
                                            AS
                                                   Proj_TO_WSWFr_2025
      2025 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2025* TO_WSWSa AS
                                                   Proj TO WSWSa 2025
      2025 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2025* TO WSWTo AS
                                                   Proj TO WSWTo 2025
      2025 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* TO WFrTo
                                             AS
                                                   Proj TO WFrTo 2025
      2025 Block-level population projection share times
                                                          Total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
Mgal/d
CALCULATED BLOCK PROJ 2025* TO WSaTo
                                                   Proj TO WSaTo 2025
                                             AS
      2025 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop)
in Mgal/d
CALCULATED BLOCK_PROJ_2025* TO_WTotl
                                             AS
                                                   Proj_TO_WTotl_2025
      2025 Block-level population projection share times
                                                          Total withdrawals, total
(fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
/*Multiplying consumption rates times 2030 block-level population projection to obtain
2030 water use projection*/
CALCULATED BLOCK PROJ 2030* PS WGWFr
                                            AS
                                                   Proj PS WGWFr 2030
      2030 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* PS_WGWSa AS
                                                   Proj_PS_WGWSa_2030
      2030 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PS_WGWTo AS
                                                   Proj_PS_WGWTo_2030
      2030 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PS WSWFr
                                                   Proj PS WSWFr 2030
                                             AS
      2030 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* PS_WSWSa
                                             AS
                                                   Proj_PS_WSWSa_2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* PS_WSWTo
                                             AS
                                                   Proj_PS_WSWTo_2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
```

CALCULATED BLOCK_PROJ_2030* PS_WFrTo AS Proj_PS_WFrTo_2030 /* 2030 Block-level population projection share times Public Supply, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* PS WSaTo AS Proj PS WSaTo 2030 2030 Block-level population projection share times Public Supply, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* PS Wtotl AS Proj PS Wtotl 2030 /* 2030 Block-level population projection share times Public Supply, total withdrawals, total Divided by Total Population (PS-TOPop) */, (fresh+saline), in Mgal/d CALCULATED BLOCK PROJ 2030* DO WGWFr AS Proj DO WGWFr 2030 2030 Block-level population projection share times Domestic, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* DO WSWFr AS Proj DO WSWFr 2030 2030 Block-level population projection share times Domestic, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* DO WFrTo AS Proj DO WFrTo 2030 Domestic, total self-2030 Block-level population projection share times supplied withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2030* DO_PSDel AS Proj DO PSDel 2030/* 2030 Block-level population projection share times Domestic, deliveries from Public Supply, Divided by Total Population (PS-TOPop) */, in Mgal/d CALCULATED BLOCK PROJ 2030* IN WGWFr AS Proj IN WGWFr 2030 2030 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2030* IN WGWSa AS Proj IN WGWSa 2030 2030 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2030* IN WGWTo AS Proj IN WGWTo 2030 2030 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* IN WSWFr Proj IN WSWFr 2030 AS 2030 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* IN WSWSa AS Proj IN WSWSa 2030 2030 Block-level population projection share times Industrial, self-supplied

```
surface-water withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* IN_WSWTo
                                              AS
                                                     Proj_IN_WSWTo_2030
      2030 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* IN WFrTo
                                              AS
                                                     Proj IN WFrTo 2030
      2030 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* IN WSaTo
                                              AS
                                                     Proj IN WSaTo 2030
      2030 Block-level population projection share times
                                                           Industrial, self-supplied
                                       Divided by Total Population (PS-TOPop)
total withdrawals, saline, in Mgal/d
                                                                               */,
CALCULATED BLOCK_PROJ_2030* IN_Wtotl
                                                     Proj IN Wtotl 2030 /*
                                                                               2030
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* IR_WGWFr
                                              AS
                                                     Proj_IR_WGWFr_2030
      2030 Block-level population projection share times
                                                           Irrigation, groundwater
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* IR WSWFr
                                                     Proj IR WSWFr 2030
                                              AS
      2030 Block-level population projection share times
                                                           Irrigation, surface-water
                                 Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* IR_WFrTo
                                              AS
                                                     Proj_IR_WFrTo_2030
      2030 Block-level population projection share times
                                                           Irrigation, total
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
```

CALCULATED BLOCK_PROJ_2030* IC_WGWFr AS Proj_IC_WGWFr_2030 2030 Block-level population projection share times Irrigation-Crop. groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* IC WSWFr Proj IC WSWFr 2030 AS 2030 Block-level population projection share times Irrigation-Crop, surfacewater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2030* IC_WFrTo AS Proj_IC_WFrTo_2030/* 2030 Block-level population projection share times Irrigation-Crop, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* IG_WSWFr
                                              AS
                                                    Proj IG WSWFr 2030
      2030 Block-level population projection share times
                                                           Irrigation-Golf, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* IG WFrTo
                                              AS
                                                    Proj_IG_WFrTo_2030
      2030 Block-level population projection share times
                                                           Irrigation-Golf, total
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROJ 2030* LI WGWFr
                                            AS
                                                   Proj LI WGWFr 2030
      2030 Block-level population projection share times
                                                          Livestock, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* LI WSWFr
                                             AS
                                                   Proj LI WSWFr 2030
      2030 Block-level population projection share times
                                                          Livestock, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* LI WFrTo
                                             AS
                                                   Proj LI WFrTo 2030/*
                                                                             2030
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
Mgal/d
            Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AO WGWFr AS
                                                   Proj AO WGWFr 2030
      2030 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AO WGWSa AS
                                                   Proj AO WGWSa 2030
      2030 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AQ WGWTo AS
                                                   Proj AQ WGWTo 2030
      2030 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AO WSWFr AS
                                                   Proj AO WSWFr 2030
      2030 Block-level population projection share times
                                                         Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* AO WSWSa AS
                                                   Proj AO WSWSa 2030
      2030 Block-level population projection share times
                                                         Aquaculture, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* AQ_WSWTo AS
                                                   Proj_AQ_WSWTo_2030
      2030 Block-level population projection share times
                                                         Aquaculture, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AQ WFrTo
                                            AS
                                                   Proj AQ WFrTo 2030
                                                                             /*
      2030 Block-level population projection share times
                                                         Aquaculture, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROI 2030* AO WSaTo
                                            AS
                                                   Proj AO WSaTo 2030
      2030 Block-level population projection share times
                                                         Aquaculture, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
```

```
CALCULATED BLOCK PROI 2030* AO WTotl
                                             AS
                                                   Proj_AQ_WTotl_2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2030* MI_WGWFr
                                            AS
                                                   Proj_MI_WGWFr_2030
      2030 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* MI WGWSa AS
                                                   Proj MI WGWSa 2030
      2030 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* MI WGWTo AS
                                                   Proj MI WGWTo 2030
      2030 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2030* MI_WSWFr
                                                   Proj_MI_WSWFr_2030
                                            AS
      2030 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* MI_WSWSa
                                                   Proj_MI_WSWSa_2030
                                            AS
      2030 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* MI WSWTo AS
                                                   Proj MI WSWTo 2030
      2030 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2030* MI_WFrTo
                                             AS
                                                   Proj_MI_WFrTo_2030
      2030 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* MI_WSaTo
                                                   Proj_MI_WSaTo_2030
                                             AS
      2030 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK PROJ 2030* MI Wtotl
                                                   Proj MI Wtotl 2030 /*
                                                                             2030
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PT WGWFr
                                             AS
                                                   Proj PT WGWFr 2030
      2030 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PT WGWSa
                                             AS
                                                   Proj PT WGWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* PT WGWTo AS
                                                   Proj PT WGWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
CALCULATED BLOCK PROJ 2030* PT WSWFr
                                            AS
                                                   Proj_PT_WSWFr_2030
      2030 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PT WSWSa AS
                                                   Proj PT WSWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric, surface-
                                      Divided by Total Population (PS-TOPop)
water withdrawals, saline, in Mgal/d
                                                   Proj PT WSWTo 2030
CALCULATED BLOCK PROJ 2030* PT WSWTo AS
      2030 Block-level population projection share times
                                                          Thermoelectric, surface-
                                      Divided by Total Population (PS-TOPop)
water withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2030* PT_WFrTo
                                             AS
                                                   Proj_PT_WFrTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PT_WSaTo
                                             AS
                                                   Proj_PT_WSaTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PT Wtotl
                                             AS
                                                   Proj PT Wtotl 2030 /*
                                                                             2030
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2030* PO WGWFr
                                                   Proi PO WGWFr 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
                                                                             /*
CALCULATED BLOCK PROJ 2030* PO WGWSa AS
                                                   Proj PO WGWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2030* PO WGWTo AS
                                                   Proj PO WGWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2030* PO WSWFr
                                                   Proj PO WSWFr 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2030* PO WSWSa AS
                                                   Proj PO WSWSa 2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2030* PO WSWTo AS
                                                   Proj PO WSWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2030* PO WFrTo
                                                   Proj PO WFrTo 2030
                                             AS
      2030 Block-level population projection share times
                                                          Thermoelectric once-
```

```
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* PO_WSaTo
                                             AS
                                                    Proj_PO_WSaTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
                                             Divided by Total Population (PS-TOPop)
through, total withdrawals, saline, in Mgal/d
      */,
CALCULATED BLOCK PROJ 2030* PO WTotl
                                             AS
                                                    Proj PO WTotl 2030/*
                                                                              2030
                                             Thermoelectric once-through, total
Block-level population projection share times
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PO Power
                                                    Proj PO Power 2030
                                             AS
                                                          Thermoelectric once-
      2030 Block-level population projection share times
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2030* PC_WGWFr
                                             AS
                                                    Proj_PC_WGWFr_2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PC_WGWSa AS
                                                    Proj PC WGWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PC WGWTo AS
                                                    Proj PC WGWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK_PROJ_2030* PC_WSWFr
                                                    Proj_PC_WSWFr_2030
                                                                              /*
                                             AS
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PC_WSWSa
                                             AS
                                                    Proj_PC_WSWSa_2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PC WSWTo AS
                                                    Proj PC WSWTo 2030
                                                                              /*
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PC_WFrTo
                                                    Proj PC WFrTo 2030
                                             AS
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* PC_WSaTo
                                                    Proj_PC_WSaTo_2030
                                             AS
      2030 Block-level population projection share times
                                                          Thermoelectric
                                                    Divided by Total Population (PS-
recirculation, total withdrawals, saline, in Mgal/d
TOPop)
             */,
```

```
CALCULATED BLOCK PROI 2030* PC WTotl
                                             AS
                                                   Proj_PC_WTotl_2030 /*
                                                                             2030
                                             Thermoelectric recirculation, total
Block-level population projection share times
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* TO WGWFr AS
                                                   Proj TO WGWFr 2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* TO_WGWSa AS
                                                   Proj_TO_WGWSa_2030
      2030 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
                                                   Proj_TO_WGWTo_2030
CALCULATED BLOCK_PROJ_2030* TO_WGWTo AS
      2030 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* TO WSWFr AS
                                                   Proj TO WSWFr 2030
      2030 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
CALCULATED BLOCK PROJ 2030* TO WSWSa AS
                                                   Proj TO WSWSa 2030
      2030 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2030* TO WSWTo AS
                                                   Proj TO WSWTo 2030
      2030 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2030* TO_WFrTo
                                             AS
                                                   Proj_TO_WFrTo_2030
      2030 Block-level population projection share times
                                                          Total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK_PROJ_2030* TO_WSaTo
                                                   Proj TO WSaTo 2030
      2030 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop)
                                                   */,
in Mgal/d
CALCULATED BLOCK PROJ 2030* TO WTotl
                                                   Proj TO WTotl 2030
                                             AS
      2030 Block-level population projection share times
                                                          Total withdrawals, total
                        Divided by Total Population (PS-TOPop) */.
(fresh+saline), in Mgal/d
/*Multiplying consumption rates times 2035 block-level population projection to obtain
2035 water use projection*/
CALCULATED BLOCK_PROJ_2035* PS_WGWFr AS
                                                   Proj PS_WGWFr_2035
      2035 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PS WGWSa AS
                                                   Proj PS WGWSa 2035
      2035 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
```

```
CALCULATED BLOCK PROI 2035* PS WGWTo AS
                                                   Proj PS WGWTo 2035
      2035 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PS WSWFr AS
                                                   Proi PS WSWFr 2035
      2035 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* PS WSWSa
                                             AS
                                                   Proj PS WSWSa 2035
                                                                             /*
      2035 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROI 2035* PS WSWTo AS
                                                   Proj_PS_WSWTo_2035
                                                                             /*
      2035 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* PS_WFrTo
                                             AS
                                                   Proj_PS_WFrTo_2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PS WSaTo
                                             AS
                                                   Proj PS WSaTo 2035
                                                                              /*
                                                          Public Supply, total
      2035 Block-level population projection share times
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PS Wtotl
                                             AS
                                                   Proj PS Wtotl 2035 /*
                                                                              2035
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* DO_WGWFr AS
                                                   Proj DO WGWFr 2035
      2035 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* DO WSWFr
                                             AS
                                                   Proj DO WSWFr 2035
      2035 Block-level population projection share times
                                                          Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2035* DO WFrTo
                                             AS
                                                   Proj DO WFrTo 2035
      2035 Block-level population projection share times
                                                          Domestic, total self-
supplied withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* DO_PSDel
                                                   Proj DO PSDel 2035/*
                                             AS
                                                                              2035
Block-level population projection share times
                                             Domestic, deliveries from Public Supply,
            Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK PROJ 2035* IN WGWFr
                                                   Proj IN WGWFr 2035
                                             AS
      2035 Block-level population projection share times
                                                          Industrial, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* IN WGWSa
                                             AS
                                                   Proj IN WGWSa 2035
      2035 Block-level population projection share times
                                                          Industrial, self-supplied
```

```
groundwater withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* IN_WGWTo
                                              AS
                                                     Proj_IN_WGWTo_2035
      2035 Block-level population projection share times
                                                           Industrial, self-supplied
                                              Divided by Total Population (PS-TOPop)
groundwater withdrawals, total, in Mgal/d
      */,
CALCULATED BLOCK PROJ 2035* IN WSWFr
                                              AS
                                                     Proj IN WSWFr 2035
      2035 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* IN WSWSa
                                              AS
                                                     Proj IN WSWSa 2035
      2035 Block-level population projection share times
                                                           Industrial, self-supplied
                                              Divided by Total Population (PS-TOPop)
surface-water withdrawals, saline, in Mgal/d
      */,
CALCULATED BLOCK PROJ 2035* IN WSWTo
                                              AS
                                                     Proj IN WSWTo 2035
      2035 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* IN WFrTo
                                              AS
                                                     Proj IN WFrTo 2035
      2035 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* IN WSaTo
                                              AS
                                                     Proj IN WSaTo 2035
      2035 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                               */,
CALCULATED BLOCK PROJ 2035* IN Wtotl
                                                     Proj IN Wtotl 2035 /*
                                                                               2035
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
                                              AS
CALCULATED BLOCK PROJ 2035* IR WGWFr
                                                     Proj IR WGWFr 2035
      2035 Block-level population projection share times
                                                           Irrigation, groundwater
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* IR WSWFr
                                                     Proj IR WSWFr 2035
                                              AS
      2035 Block-level population projection share times
                                                           Irrigation, surface-water
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* IR_WFrTo
                                                     Proj_IR_WFrTo_2035
                                              AS
      2035 Block-level population projection share times
                                                           Irrigation, total
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
```

CALCULATED BLOCK_PROJ_2035* IC_WGWFr AS Proj_IC_WGWFr_2035 /*
2035 Block-level population projection share times Irrigation-Crop,
groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
*/,

```
CALCULATED BLOCK PROJ 2035* IC WSWFr
                                             AS
                                                    Proj IC WSWFr 2035
                                                                              /*
      2035 Block-level population projection share times
                                                           Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* IC WFrTo
                                             AS
                                                    Proj IC WFrTo 2035/*
                                                                              2035
Block-level population projection share times
                                              Irrigation-Crop, total withdrawals, fresh,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
```

```
CALCULATED BLOCK PROJ 2035* IG WGWFr
                                             AS
                                                    Proj IG WGWFr 2035
      2035 Block-level population projection share times
                                                           Irrigation-Golf,
                                              Divided by Total Population (PS-TOPop)
groundwater withdrawals, fresh, in Mgal/d
      */,
CALCULATED BLOCK PROJ 2035* IG WSWFr
                                             AS
                                                    Proj IG WSWFr 2035
      2035 Block-level population projection share times
                                                           Irrigation-Golf, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2035* IG WFrTo
                                             AS
                                                    Proj_IG_WFrTo_2035
      2035 Block-level population projection share times
                                                           Irrigation-Golf, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2035* LI WGWFr
                                            AS
                                                   Proj LI WGWFr 2035
      2035 Block-level population projection share times
                                                         Livestock, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* LI WSWFr
                                            AS
                                                   Proj LI WSWFr 2035
      2035 Block-level population projection share times
                                                         Livestock, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROI 2035* LI WFrTo
                                            AS
                                                   Proj LI WFrTo 2035/*
                                                                             2035
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
            Divided by Total Population (PS-TOPop) */,
Mgal/d
CALCULATED BLOCK PROJ 2035* AO WGWFr AS
                                                   Proj AO WGWFr 2035
      2035 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* AQ_WGWSa AS
                                                   Proj_AQ_WGWSa_2035
      2035 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* AQ WGWTo AS
                                                   Proj AQ WGWTo 2035
      2035 Block-level population projection share times
                                                         Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2035* AO WSWFr AS
                                                   Proj AO WSWFr 2035
      2035 Block-level population projection share times
                                                         Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2035* AO WSWSa AS
                                                   Proj AO WSWSa 2035
      2035 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2035* AO WSWTo AS
                                                   Proj AQ WSWTo 2035
      2035 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2035* AQ WFrTo
                                             AS
                                                   Proj AQ WFrTo 2035
                                                                             /*
      2035 Block-level population projection share times
                                                          Aquaculture, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2035* AO WSaTo
                                            AS
                                                   Proj AO WSaTo 2035
                                                          Aquaculture, total
      2035 Block-level population projection share times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROI 2035* AO WTotl
                                             AS
                                                   Proj AO WTotl 2035
      2035 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* MI_WGWFr AS
                                                   Proj_MI_WGWFr_2035
      2035 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* MI WGWSa AS
                                                   Proj MI WGWSa 2035
      2035 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2035* MI WGWTo AS
                                                   Proj_MI_WGWTo_2035
      2035 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */.
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_WSWFr
                                                   Proj_MI_WSWFr_2035
                                            AS
      2035 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2035* MI WSWSa
                                                   Proj MI WSWSa 2035
                                            AS
      2035 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
CALCULATED BLOCK PROJ 2035* MI WSWTo AS
                                                   Proj MI WSWTo 2035
      2035 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */.
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_WFrTo
                                                   Proj_MI_WFrTo_2035
                                             AS
      2035 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_WSaTo
                                                   Proj MI WSaTo 2035
                                             AS
      2035 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_Wtotl
                                             AS
                                                   Proj MI Wtotl 2035 /*
                                                                             2035
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PT_WGWFr AS
                                                   Proj PT WGWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric.
```

```
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* PT_WGWSa
                                             AS
                                                   Proj_PT_WGWSa_2035
      2035 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* PT WGWTo
                                            AS
                                                   Proj PT WGWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* PT WSWFr
                                             AS
                                                   Proj PT WSWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric, surface-
                                      Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* PT_WSWSa
                                             AS
                                                   Proj_PT_WSWSa_2035
      2035 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* PT_WSWTo AS
                                                   Proj_PT_WSWTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* PT_WFrTo
                                                   Proj PT WFrTo 2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* PT_WSaTo
                                             AS
                                                   Proj_PT_WSaTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
CALCULATED BLOCK_PROJ_2035* PT_Wtotl
                                                   Proj_PT_Wtotl_2035 /*
                                             AS
                                                                             2035
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
                        Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
                                                                             /*
CALCULATED BLOCK_PROJ_2035* PO_WGWFr AS
                                                   Proj_PO_WGWFr_2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2035* PO WGWSa AS
                                                   Proj PO WGWSa 2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2035* PO_WGWTo AS
                                                   Proj_PO_WGWTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
                                                                             /*
CALCULATED BLOCK_PROJ_2035* PO_WSWFr AS
                                                   Proj_PO_WSWFr_2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
```

```
CALCULATED BLOCK PROJ 2035* PO WSWSa AS
                                                   Proj PO WSWSa 2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2035* PO_WSWTo AS
                                                   Proj_PO_WSWTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2035* PO_WFrTo
                                                   Proj PO WFrTo 2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* PO WSaTo
                                                   Proj_PO_WSaTo_2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* PO_WTotl
                                             AS
                                                   Proj_PO_WTotl_2035/*
                                                                              2035
Block-level population projection share times
                                             Thermoelectric once-through, total
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PO Power
                                                   Proj PO Power 2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* PC WGWFr
                                                   Proj PC WGWFr 2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PC WGWSa AS
                                                   Proj PC WGWSa 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PC WGWTo AS
                                                   Proj PC WGWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2035* PC WSWFr
                                                   Proj PC WSWFr 2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2035* PC WSWSa
                                                   Proj PC WSWSa 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */.
CALCULATED BLOCK PROJ 2035* PC WSWTo AS
                                                   Proj PC WSWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
```

```
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PC_WFrTo
                                             AS
                                                    Proj PC WFrTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* PC WSaTo
                                             AS
                                                    Proj PC WSaTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2035* PC WTotl
                                             AS
                                                    Proj PC WTotl 2035/*
                                                                              2035
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* TO_WGWFr AS
                                                    Proj TO WGWFr 2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Total groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* TO WGWSa AS
                                                    Proj TO WGWSa 2035
      2035 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* TO WGWTo AS
                                                    Proj TO WGWTo 2035
      2035 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* TO_WSWFr AS
                                                    Proj_TO_WSWFr_2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* TO_WSWSa AS
                                                    Proj TO WSWSa 2035
      2035 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* TO_WSWTo AS
                                                    Proj TO WSWTo 2035
      2035 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* TO WFrTo
                                             AS
                                                    Proj TO WFrTo 2035
      2035 Block-level population projection share times
                                                          Total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* TO_WSaTo
                                             AS
                                                    Proj_TO_WSaTo_2035
      2035 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* TO_WTotl
                                                    Proj_TO_WTotl_2035
                                             AS
      2035 Block-level population projection share times
                                                          Total withdrawals, total
(fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
```

```
/*Multiplying consumption rates times 2040 block-level population projection to obtain
2040 water use projection*/
CALCULATED BLOCK_PROJ_2040* PS_WGWFr
                                           AS
                                                    Proj PS WGWFr 2040
      2040 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PS WGWSa AS
                                                    Proj PS WGWSa 2040
      2040 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PS WGWTo AS
                                                    Proj PS WGWTo 2040
                                                          Public Supply, groundwater
      2040 Block-level population projection share times
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PS WSWFr
                                             AS
                                                    Proj PS WSWFr 2040
      2040 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                              /*
CALCULATED BLOCK PROJ 2040* PS WSWSa
                                             AS
                                                    Proj_PS_WSWSa_2040
      2040 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PS WSWTo
                                                    Proj PS WSWTo 2040
                                                                              /*
                                             AS
      2040 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* PS_WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2040
                                                                              /*
      2040 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PS WSaTo
                                                    Proj PS WSaTo 2040
                                             AS
      2040 Block-level population projection share times
                                                          Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PS Wtotl
                                             AS
                                                    Proj PS Wtotl 2040 /*
                                                                              2040
Block-level population projection share times
                                             Public Supply, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2040* DO WGWFr AS
                                                    Proj DO WGWFr 2040
      2040 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* DO_WSWFr
                                             AS
                                                    Proj DO WSWFr 2040
      2040 Block-level population projection share times
                                                          Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* DO_WFrTo
                                             AS
                                                    Proj_DO_WFrTo_2040
      2040 Block-level population projection share times
                                                          Domestic, total self-
                                       Divided by Total Population (PS-TOPop)
supplied withdrawals, fresh, in Mgal/d
                                                                              */,
CALCULATED BLOCK PROI 2040* DO PSDel
                                             AS
                                                    Proj DO PSDel 2040/*
                                                                              2040
Block-level population projection share times
                                             Domestic, deliveries from Public Supply,
in Mgal/d
             Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2040* IN_WGWFr
                                              AS
                                                    Proj_IN_WGWFr_2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
                                              Divided by Total Population (PS-TOPop)
groundwater withdrawals, fresh, in Mgal/d
      */,
CALCULATED BLOCK PROJ 2040* IN WGWSa
                                                    Proj_IN_WGWSa_2040
                                              AS
                                                           Industrial, self-supplied
      2040 Block-level population projection share times
groundwater withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
                                              AS
CALCULATED BLOCK PROJ 2040* IN WGWTo
                                                    Proj IN WGWTo 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
                                              Divided by Total Population (PS-TOPop)
groundwater withdrawals, total, in Mgal/d
      */,
CALCULATED BLOCK PROJ 2040* IN WSWFr
                                              AS
                                                    Proj IN WSWFr 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* IN WSWSa
                                              AS
                                                    Proj IN WSWSa 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* IN_WSWTo
                                              AS
                                                    Proj_IN_WSWTo_2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* IN WFrTo
                                              AS
                                                    Proj IN WFrTo 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* IN_WSaTo
                                              AS
                                                     Proj_IN_WSaTo_2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* IN_Wtotl
                                                     Proj_IN_Wtotl_2040 /*
                                              AS
                                                                               2040
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* IR_WGWFr
                                              AS
                                                    Proj_IR_WGWFr_2040
      2040 Block-level population projection share times
                                                           Irrigation, groundwater
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* IR WSWFr
                                              AS
                                                    Proj IR WSWFr 2040
      2040 Block-level population projection share times
                                                           Irrigation, surface-water
                                 Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROI 2040* IR WFrTo
                                              AS
                                                    Proj IR WFrTo 2040
                                                                               /*
      2040 Block-level population projection share times
                                                           Irrigation, total
                                 Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK_PROJ_2040* IC_WGWFr
                                             AS
                                                    Proj_IC_WGWFr_2040
      2040 Block-level population projection share times
                                                          Irrigation-Crop,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* IC_WSWFr
                                                    Proj_IC_WSWFr_2040
                                             AS
      2040 Block-level population projection share times
                                                          Irrigation-Crop, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
                                                                              */,
                                                    Proj_IC_WFrTo_2040/*
CALCULATED BLOCK_PROJ_2040* IC_WFrTo
                                             AS
                                                                              2040
Block-level population projection share times
                                             Irrigation-Crop, total withdrawals, fresh,
            Divided by Total Population (PS-TOPop) */,
in Mgal/d
```

```
CALCULATED BLOCK PROJ 2040* IG WGWFr
                                              AS
                                                    Proj IG WGWFr 2040
                                                                               /*
      2040 Block-level population projection share times
                                                           Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* IG_WSWFr
                                             AS
                                                    Proj IG WSWFr 2040
      2040 Block-level population projection share times
                                                           Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* IG_WFrTo
                                                    Proj_IG_WFrTo_2040
                                              AS
      2040 Block-level population projection share times
                                                           Irrigation-Golf, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2040* LI_WGWFr
                                                   Proj_LI_WGWFr_2040
                                             AS
      2040 Block-level population projection share times
                                                          Livestock, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* LI WSWFr
                                             AS
                                                   Proj LI WSWFr 2040
      2040 Block-level population projection share times
                                                         Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* LI_WFrTo
                                             AS
                                                   Proj_LI_WFrTo_2040/*
                                                                             2040
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
            Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* AQ_WGWFr AS
                                                   Proj_AQ_WGWFr_2040
      2040 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2040* AO WGWSa AS
                                                   Proj AO WGWSa 2040
      2040 Block-level population projection share times
                                                         Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROI 2040* AO WGWTo AS
                                                   Proi AO WGWTo 2040
      2040 Block-level population projection share times
                                                         Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2040* AQ WSWFr AS
                                                   Proj AQ WSWFr 2040
      2040 Block-level population projection share times
                                                         Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2040* AO WSWSa AS
                                                   Proj AO WSWSa 2040
      2040 Block-level population projection share times
                                                         Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2040* AO WSWTo AS
                                                   Proj AO WSWTo 2040
      2040 Block-level population projection share times
                                                         Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2040* AQ WFrTo
                                            AS
                                                   Proj AQ WFrTo 2040
                                                                             /*
      2040 Block-level population projection share times
                                                         Aquaculture, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2040* AQ WSaTo
                                            AS
                                                   Proj AQ WSaTo 2040
      2040 Block-level population projection share times
                                                         Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2040* AO WTotl
                                             AS
                                                   Proj AO WTotl 2040
      2040 Block-level population projection share times
                                                         Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                            Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* MI_WGWFr AS
                                                   Proj MI_WGWFr_2040
      2040 Block-level population projection share times
                                                         Mining, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI WGWSa AS
                                                   Proj MI WGWSa 2040
      2040 Block-level population projection share times
                                                         Mining, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI WGWTo AS
                                                   Proj MI WGWTo 2040
      2040 Block-level population projection share times
                                                         Mining, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* MI_WSWFr
                                                   Proj_MI_WSWFr_2040
                                            AS
      2040 Block-level population projection share times
                                                         Mining, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* MI_WSWSa
                                            AS
                                                   Proj_MI_WSWSa_2040
      2040 Block-level population projection share times
                                                         Mining, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI WSWTo AS
                                                   Proj MI WSWTo 2040
      2040 Block-level population projection share times
                                                         Mining, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2040* MI_WFrTo
                                             AS
                                                   Proj MI WFrTo 2040
      2040 Block-level population projection share times
                                                          Mining, total withdrawals.
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI WSaTo
                                             AS
                                                   Proj MI WSaTo 2040
      2040 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK PROJ 2040* MI Wtotl
                                             AS
                                                   Proj MI Wtotl 2040 /*
                                                                              2040
Block-level population projection share times
                                             Mining, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROI 2040* PT WGWFr
                                             AS
                                                   Proj_PT_WGWFr_2040
      2040 Block-level population projection share times
                                                          Thermoelectric.
                                             Divided by Total Population (PS-TOPop)
groundwater withdrawals, fresh, in Mgal/d
      */,
CALCULATED BLOCK_PROJ_2040* PT_WGWSa
                                             AS
                                                   Proj_PT_WGWSa_2040
      2040 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PT WGWTo AS
                                                   Proj PT WGWTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2040* PT WSWFr
                                                   Proj PT WSWFr 2040
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2040
      2040 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
                                                                              */,
CALCULATED BLOCK PROJ 2040* PT WSWTo AS
                                                   Proj PT WSWTo 2040
                                                          Thermoelectric, surface-
      2040 Block-level population projection share times
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PT WFrTo
                                             AS
                                                   Proj PT WFrTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PT WSaTo
                                             AS
                                                   Proj PT WSaTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PT_Wtotl
                                             AS
                                                   Proj_PT_Wtotl_2040 /*
                                                                              2040
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
(fresh+saline), in Mgal/d
                        Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PO WGWFr AS
                                                   Proj PO WGWFr 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
```

```
CALCULATED BLOCK PROJ 2040* PO WGWSa AS
                                                   Proj PO WGWSa 2040
                                                                             /*
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2040* PO_WGWTo AS
                                                   Proj_PO_WGWTo_2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
            */,
CALCULATED BLOCK_PROJ_2040* PO_WSWFr AS
                                                   Proj PO WSWFr 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2040* PO WSWSa AS
                                                   Proj PO WSWSa 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2040* PO_WSWTo AS
                                                   Proj_PO_WSWTo_2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
                                                   Divided by Total Population (PS-
through, surface-water withdrawals, total, in Mgal/d
TOPop)
             */,
CALCULATED BLOCK_PROJ_2040* PO_WFrTo
                                             AS
                                                   Proj_PO_WFrTo_2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* PO WSaTo
                                                   Proj PO WSaTo 2040
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* PO WTotl
                                             AS
                                                   Proj PO WTotl 2040/*
                                                                             2040
Block-level population projection share times
                                             Thermoelectric once-through, total
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PO Power
                                             AS
                                                   Proj PO Power 2040
      2040 Block-level population projection share times
                                                          Thermoelectric once-
through, power generated, in gigawatt-hours
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PC WGWFr
                                                   Proj PC WGWFr 2040
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */,
CALCULATED BLOCK PROJ 2040* PC WGWSa AS
                                                   Proj PC WGWSa 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK PROJ 2040* PC WGWTo AS
                                                   Proj PC WGWTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
```

```
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PC_WSWFr
                                             AS
                                                   Proj_PC_WSWFr_2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PC WSWSa AS
                                                   Proj PC WSWSa 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PC WSWTo AS
                                                   Proj PC WSWTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PC_WFrTo
                                             AS
                                                   Proj PC WFrTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* PC WSaTo
                                             AS
                                                   Proj PC WSaTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2040* PC_WTotl
                                             AS
                                                   Proj PC WTotl 2040/*
                                                                             2040
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* TO WGWFr AS
                                                   Proj TO WGWFr 2040
                                                                             /*
      2040 Block-level population projection share times
                                                          Total groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* TO WGWSa AS
                                                   Proj TO WGWSa 2040
      2040 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2040* TO WGWTo AS
                                                   Proj TO WGWTo 2040
      2040 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* TO_WSWFr AS
                                                   Proj_TO_WSWFr_2040
      2040 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* TO WSWSa AS
                                                   Proj_TO_WSWSa_2040
      2040 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* TO_WSWTo AS
                                                   Proj_TO_WSWTo_2040
      2040 Block-level population projection share times
                                                          Total surface-water
```

```
withdrawals, total (fresh+saline), in Mgal/d
                                          Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* TO WFrTo
                                         AS
                                                Proj_TO_WFrTo_2040
                                                     Total withdrawals, fresh, in
      2040 Block-level population projection share times
Mgal/d
            Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* TO WSaTo
                                                Proj TO WSaTo 2040
                                         AS
      2040 Block-level population projection share times
                                                     Total withdrawals, saline,
in Mgal/d
            Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* TO_WTotl
                                                Proj_TO_WTotl_2040
                                          AS
      2040 Block-level population projection share times
                                                     Total withdrawals, total
(fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */
FROM GA BLOCK A
LEFT JOIN GA_COUNTY B ON A.STATECOUNTY=B.STATECOUNTY
LEFT JOIN WP2014_POP C ON A.STATECOUNTY=C.STATECOUNTY
LEFT JOIN GA USGS D ON A.STATECOUNTY=D.FIPS
quit;
/*############################# SOUTH CAROLINA
####*/
/*Calculating projected population and water use by category by source for South
Carolina*/
/*Calculating projected population and water use by category by source for South
Carolina*/
PROC SQL NOPRINT;
CREATE TABLE SC SHARES AS
SELECT DISTINCT A.*, COUNTY_POP100, COUNTY_HU100,
/*Calculating the percent of total county population residing in each block*/
BLOCK POP100/COUNTY POP100 AS BLOCK POP SHARE,
BLOCK_HU100/COUNTY_HU100 AS BLOCK_HU_SHARE,
_2015, _2020, _2025, _2030, _2035, _2040,
/*Multiplying the share of population in the block times the Woods and Poole projections*/
```

```
CALCULATED BLOCK_POP_SHARE*_2015 AS BLOCK_PROJ_2015,
CALCULATED BLOCK_POP_SHARE*_2020 AS BLOCK_PROJ_2020,
CALCULATED BLOCK_POP_SHARE*_2025 AS BLOCK_PROJ_2025,
CALCULATED BLOCK POP SHARE* 2030 AS BLOCK PROJ 2030,
CALCULATED BLOCK_POP_SHARE*_2035 AS BLOCK_PROJ_2035,
CALCULATED BLOCK_POP_SHARE*_2040 AS BLOCK_PROJ_2040,
/*Adding per capita consumption rates caculated from 2010 USGS County-level water use
estimates*/
PS_TOPop
                   Public Supply, total population served, in thousands
                                                                              */
                   Public Supply, groundwater withdrawals, fresh, in Mgal/d
PS WGWFr
PS_WGWSa
                   Public Supply, groundwater withdrawals, saline, in Mgal/d
PS WGWTo
                   Public Supply, groundwater withdrawals, total, in Mgal/d
PS_WSWFr
                   Public Supply, surface-water withdrawals, fresh, in Mgal/d
                                                                              */
PS WSWSa
             /*
                   Public Supply, surface-water withdrawals, saline, in Mgal/d
                                                                              */
PS_WSWTo
                   Public Supply, surface-water withdrawals, total, in Mgal/d
                                                                              */
PS WFrTo
                   Public Supply, total withdrawals, fresh, in Mgal/d*/
PS WSaTo
                   Public Supply, total withdrawals, saline, in Mgal/d
                   Public Supply, total withdrawals, total (fresh+saline), in Mgal/d
PS Wtotl
      */
                   Domestic, self-supplied groundwater withdrawals, fresh, in Mgal/d
DO_WGWFr
DO_WSWFr
                   Domestic, self-supplied surface-water withdrawals, fresh, in Mgal/d
                   Domestic, total self-supplied withdrawals, fresh, in Mgal/d
                                                                              */
DO WFrTo
DO_PSDel
                   Domestic, deliveries from Public Supply, in Mgal/d
                   Domestic, publicly supplied per capita use, in gallons/day [DO-
DO PSPCp
PSDel/PS-TOPop]
                   */
                   Domestic, total use (withdrawals + deliveries)
DO_TOTAL
IN_WGWFr
                   Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d
      */
IN_WGWSa
                   Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d
IN WGWTo
                   Industrial, self-supplied groundwater withdrawals, total, in Mgal/d
      */
```

```
/*
                    Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d
IN_WSWFr
IN_WSWSa
                    Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d
IN_WSWTo
                    Industrial, self-supplied surface-water withdrawals, total, in Mgal/d
                    Industrial, self-supplied total withdrawals, fresh, in Mgal/d
IN WFrTo
                                                                                  */
IN_WSaTo
                    Industrial, self-supplied total withdrawals, saline, in Mgal/d
                                                                                  */
IN Wtotl
                    Industrial, self-supplied total withdrawals, total (fresh+saline), in
Mgal/d
              */
IR_WGWFr
              /*
                    Irrigation, groundwater withdrawals, fresh, in Mgal/d
                    Irrigation, surface-water withdrawals, fresh, in Mgal/d */
IR_WSWFr
IR_WFrTo
              /*
                    Irrigation, total withdrawals, fresh, in Mgal/d
                    Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d
IC_WGWFr
              /*
                                                                                  */
IC_WSWFr
                    Irrigation-Crop, surface-water withdrawals, fresh, in Mgal/d
              /*
                                                                                  */
IC_WFrTo
                    Irrigation-Crop, total withdrawals, fresh, in Mgal/d
                                                                           */
IG_WGWFr
                    Irrigation-Golf, groundwater withdrawals, fresh, in Mgal/d
                                                                                  */
IG_WSWFr
              /*
                    Irrigation-Golf, surface-water withdrawals, fresh, in Mgal/d
                                                                                  */
IG_WFrTo
                    Irrigation-Golf, total withdrawals, fresh, in Mgal/d
                    Livestock, groundwater withdrawals, fresh, in Mgal/d
LI_WGWFr
LI_WSWFr
                    Livestock, surface-water withdrawals, fresh, in Mgal/d */
                    Livestock, total withdrawals, fresh, in Mgal/d
LI WFrTo
                    Aquaculture, groundwater withdrawals, fresh, in Mgal/d
AQ WGWFr
AQ_WGWSa
              /*
                    Aquaculture, groundwater withdrawals, saline, in Mgal/d
                                                                                  */
AQ WGWTo
                    Aquaculture, groundwater withdrawals, total, in Mgal/d*/
```

```
AQ_WSWFr
              /*
                    Aquaculture, surface-water withdrawals, fresh, in Mgal/d
                                                                                */
AQ_WSWSa
                    Aquaculture, surface-water withdrawals, saline, in Mgal/d
AQ_WSWTo
                    Aquaculture, surface-water withdrawals, total, in Mgal/d
                                                                                */
AQ_WFrTo
                    Aquaculture, total withdrawals, fresh, in Mgal/d */
                    Aquaculture, total withdrawals, saline, in Mgal/d */
AQ_WSaTo
                    Aquaculture, total withdrawals, total (fresh+saline), in Mgal/d */
AQ_WTotl
              /*
MI WGWFr
                    Mining, groundwater withdrawals, fresh, in Mgal/d
MI_WGWSa
                    Mining, groundwater withdrawals, saline, in Mgal/d
MI_WGWTo
                    Mining, groundwater withdrawals, total, in Mgal/d
                                                                          */
                    Mining, surface-water withdrawals, fresh, in Mgal/d
MI_WSWFr
MI_WSWSa
                    Mining, surface-water withdrawals, saline, in Mgal/d
MI WSWTo
                    Mining, surface-water withdrawals, total, in Mgal/d
                    Mining, total withdrawals, fresh, in Mgal/d
MI_WFrTo
                    Mining, total withdrawals, saline, in Mgal/d
MI WSaTo
MI_Wtotl
                    Mining, total withdrawals, total (fresh+saline), in Mgal/d
                                                                                */
PT_WGWFr
                    Thermoelectric, groundwater withdrawals, fresh, in Mgal/d
PT_WGWSa
                    Thermoelectric, groundwater withdrawals, saline, in Mgal/d
                                                                                */
PT_WGWTo
                    Thermoelectric, groundwater withdrawals, total, in Mgal/d
             /*
                                                                                */
PT WSWFr
                    Thermoelectric, surface-water withdrawals, fresh, in Mgal/d
                                                                                */
PT_WSWSa
                    Thermoelectric, surface-water withdrawals, saline, in Mgal/d
                                                                                */
PT_WSWTo
                    Thermoelectric, surface-water withdrawals, total, in Mgal/d
                                                                                */
PT_WFrTo
                    Thermoelectric, total withdrawals, fresh, in Mgal/d
                    Thermoelectric, total withdrawals, saline, in Mgal/d
PT_WSaTo
              /*
                                                                         */
                    Thermoelectric, total withdrawals, total (fresh+saline), in Mgal/d
PT_Wtotl
      */
              /*
                    Thermoelectric, power generated, in gigawatt-hours
PT_Power
                    Thermoelectric once-through, groundwater withdrawals, fresh, in
PO_WGWFr
Mgal/d
                    Thermoelectric once-through, groundwater withdrawals, saline, in
PO_WGWSa
             /*
Mgal/d
                    Thermoelectric once-through, groundwater withdrawals, total, in
PO_WGWTo
             */
Mgal/d
                    Thermoelectric once-through, surface-water withdrawals, fresh, in
PO_WSWFr
Mgal/d
             */
```

```
Thermoelectric once-through, surface-water withdrawals, saline, in
PO_WSWSa
             */
Mgal/d
PO_WSWTo
                    Thermoelectric once-through, surface-water withdrawals, total, in
Mgal/d
PO_WFrTo
                    Thermoelectric once-through, total withdrawals, fresh, in Mgal/d
PO WSaTo
                    Thermoelectric once-through, total withdrawals, saline, in Mgal/d
                    Thermoelectric once-through, total withdrawals, total, in Mgal/d
PO_WTotl
                    Thermoelectric once-through, power generated, in gigawatt-hours
PO Power
PC_WGWFr
                    Thermoelectric recirculation, groundwater withdrawals, fresh, in
Mgal/d
PC_WGWSa
                    Thermoelectric recirculation, groundwater withdrawals, saline, in
             */
Mgal/d
PC_WGWTo
                    Thermoelectric recirculation, groundwater withdrawals, total, in
Mgal/d
PC_WSWFr
                    Thermoelectric recirculation, surface-water withdrawals, fresh, in
Mgal/d
PC_WSWSa
                    Thermoelectric recirculation, surface-water withdrawals, saline, in
             */
Mgal/d
PC WSWTo
                    Thermoelectric recirculation, surface-water withdrawals, total, in
Mgal/d
                    Thermoelectric recirculation, total withdrawals, fresh, in Mgal/d
PC_WFrTo
              /*
PC WSaTo
                    Thermoelectric recirculation, total withdrawals, saline, in Mgal/d
                    Thermoelectric recirculation, total withdrawals, total (fresh+saline),
PC WTotl
in Mgal/d
PC_Power
                    Thermoelectric recirculation, power generated, in gigawatt-hours
                    Total groundwater withdrawals, fresh, in Mgal/d*/
TO_WGWFr
                    Total groundwater withdrawals, saline, in Mgal/d
TO_WGWSa
              /*
                    Total groundwater withdrawals, total (fresh+saline), in Mgal/d*/
TO_WGWTo
TO_WSWFr
              /*
                    Total surface-water withdrawals, fresh, in Mgal/d
                                                                          */
                    Total surface-water withdrawals, saline, in Mgal/d
TO_WSWSa
TO_WSWTo
                    Total surface-water withdrawals, total (fresh+saline), in Mgal/d
             /*
TO WFrTo
                    Total withdrawals, fresh, in Mgal/d
                    Total withdrawals, saline, in Mgal/d
TO_WSaTo
                    Total withdrawals, total (fresh+saline), in Mgal/d
TO_WTotl
```

```
/*Multiplying consumption rates times 2010 block-level population to obtain 2010 water
use estimates*/
BLOCK_POP100*
                   PS WGWFr
                                AS
                                       Est PS WGWFr 2010
                                                                        2010 Block-
level population estimate times
                                Public Supply, groundwater withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PS WGWSa
                                       Est PS WGWSa 2010
                                AS
                                                                        2010 Block-
level population estimate times
                                Public Supply, groundwater withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PS WGWTo
                                AS
                                       Est_PS_WGWTo_2010
                                                                        2010 Block-
level population estimate times
                                Public Supply, groundwater withdrawals, total, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
                   PS WSWFr
                                       Est PS WSWFr 2010
BLOCK POP100*
                                AS
                                                                        2010 Block-
level population estimate times
                                Public Supply, surface-water withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   PS WSWSa
                                AS
                                       Est PS WSWSa 2010
                                                                        2010 Block-
level population estimate times
                                Public Supply, surface-water withdrawals, saline, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK_POP100*
                   PS WSWTo
                                AS
                                       Est PS WSWTo 2010
                                                                        2010 Block-
level population estimate times
                                Public Supply, surface-water withdrawals, total, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK_POP100*
                   PS_WFrTo
                                AS
                                       Est_PS_WFrTo_2010 /*
                                                                 2010 Block-level
population estimate times Public Supply, total withdrawals, fresh, in Mgal/dDivided by
Total Population (PS-TOPop)
                                 */,
BLOCK POP100*
                   PS WSaTo
                                       Est PS WSaTo 2010 /*
                                AS
                                                                 2010 Block-level
population estimate times Public Supply, total withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
                   PS_Wtotl
BLOCK POP100*
                                AS
                                       Est PS Wtotl 2010 /*
                                                                 2010 Block-level
population estimate times Public Supply, total withdrawals, total (fresh+saline), in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
BLOCK POP100*
                   DO WGWFr
                                AS
                                       Est DO WGWFr 2010
                                                                 /*
                                                                        2010 Block-
level population estimate times
                                Domestic, self-supplied groundwater withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   DO WSWFr
                                       Est DO WSWFr 2010
                                AS
                                                                        2010 Block-
level population estimate times
                                Domestic, self-supplied surface-water withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
BLOCK_POP100*
                   DO_WFrTo
                                       Est_DO_WFrTo_2010/*
                                                                 2010 Block-level
                                AS
population estimate times Domestic, total self-supplied withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   DO PSDel
                                AS
                                       Est DO PSDel 2010 /*
                                                                 2010 Block-level
population estimate times Domestic, deliveries from Public Supply, in Mgal/d
```

Divided by Total Population (PS-TOPop) */,

```
BLOCK POP100*
                   DO TOTAL
                                       Est DO TOTSC 2010/*
                                                                  2010 Block-level
                                 AS
population estimate times Domestic, total use (withdrawals + deliveries)
                                                                        Divided by
Total Population (PS-TOPop)
                                 */,
BLOCK POP100*
                   IN WGWFr
                                 AS
                                       Est IN WGWFr 2010
                                                                        2010 Block-
level population estimate times
                                 Industrial, self-supplied groundwater withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   IN WGWSa
                                       Est IN WGWSa 2010
                                                                        2010 Block-
level population estimate times
                                 Industrial, self-supplied groundwater withdrawals,
saline, in Mgal/d
                   Divided by Total Population (PS-TOPop) */.
BLOCK POP100*
                   IN WGWTo
                                       Est IN WGWTo 2010
                                                                        2010 Block-
level population estimate times
                                 Industrial, self-supplied groundwater withdrawals,
                   Divided by Total Population (PS-TOPop) */,
total, in Mgal/d
                                                                  2010 Block-level
BLOCK POP100*
                   IN WSWFr
                                AS
                                       Est IN WSWFr 2010/*
population estimate times Industrial, self-supplied surface-water withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
                                                                  2010 Block-level
BLOCK POP100*
                   IN WSWSa
                                AS
                                       Est IN WSWSa 2010/*
population estimate times  Industrial, self-supplied surface-water withdrawals, saline, in
Mgal/d
             Divided by Total Population (PS-TOPop) */.
BLOCK POP100*
                   IN WSWTo
                                AS
                                       Est IN WSWTo 2010
                                                                        2010 Block-
                                 Industrial, self-supplied surface-water withdrawals,
level population estimate times
total, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                                                                  2010 Block-level
                   IN WFrTo
                                AS
                                       Est IN WFrTo 2010 /*
population estimate times Industrial, self-supplied total withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
                   IN WSaTo
                                       Est IN WSaTo 2010 /*
                                                                  2010 Block-level
BLOCK POP100*
                                AS
population estimate times Industrial, self-supplied total withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                                       Est IN Wtotl 2010 /*
                                                                  2010 Block-level
                   IN Wtotl
                                AS
population estimate times Industrial, self-supplied total withdrawals, total (fresh+saline),
in Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   IR WGWFr
                                AS
                                       Est IR WGWFr 2010
                                                                        2010 Block-
level population estimate times
                                Irrigation, groundwater withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   IR WSWFr
                                       Est IR WSWFr 2010/*
                                                                  2010 Block-level
                                AS
population estimate times  Irrigation, surface-water withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   IR_WFrTo
                                       Est_IR_WFrTo_2010 /*
                                                                  2010 Block-level
                                AS
population estimate times Irrigation, total withdrawals, fresh, in Mgal/d
                                                                        Divided by
Total Population (PS-TOPop)
                                 */,
```

- BLOCK_POP100* IC_WGWFr AS Est_IC_WGWFr_2010/* 2010 Block-level population estimate times Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IC_WSWFr AS Est_IC_WSWFr_2010 /* 2010 Block-level population estimate times Irrigation-Crop, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IC_WFrTo AS Est_IC_WFrTo_2010 /* 2010 Block-level population estimate times Irrigation-Crop, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IG_WGWFr AS Est_IG_WGWFr_2010 /* 2010 Block-level population estimate times Irrigation-Golf, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IG_WSWFr AS Est_IG_WSWFr_2010 /* 2010 Block-level population estimate times Irrigation-Golf, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* IG_WFrTo AS Est_IG_WFrTo_2010 /* 2010 Block-level population estimate times Irrigation-Golf, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* LI_WGWFr AS Est_LI_WGWFr_2010/* 2010 Block-level population estimate times Livestock, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* LI_WSWFr AS Est_LI_WSWFr_2010 /* 2010 Block-level population estimate times Livestock, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* LI_WFrTo AS Est_LI_WFrTo_2010 /* 2010 Block-level population estimate times Livestock, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WGWFr AS Est_AQ_WGWFr_2010 /* 2010 Block-level population estimate times Aquaculture, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WGWSa AS Est_AQ_WGWSa_2010 /* 2010 Block-level population estimate times Aquaculture, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* AQ_WGWTo AS Est_AQ_WGWTo_2010 /* 2010 Block-level population estimate times Aquaculture, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,

- BLOCK POP100* AO WSWFr Est AO WSWFr 2010 2010 Block-AS level population estimate times Aguaculture, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* AO WSWSa AS Est AO WSWSa 2010 2010 Blocklevel population estimate times Aquaculture, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* AQ WSWTo AS Est AQ WSWTo 2010 2010 Blocklevel population estimate times Aquaculture, surface-water withdrawals, total, in Divided by Total Population (PS-TOPop) */, Mgal/d BLOCK POP100* AO WFrTo AS Est AO WFrTo 2010/* 2010 Block-level population estimate times Aquaculture, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* AO WSaTo AS Est AO WSaTo 2010/* 2010 Block-level population estimate times Aquaculture, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* AQ WTotl AS Est AQ WTotl 2010 /* 2010 Block-level
- population estimate times Aquaculture, total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */.
- BLOCK POP100* MI WGWFr AS Est MI WGWFr 2010 2010 Block-Mining, groundwater withdrawals, fresh, in Mgal/d level population estimate times Divided by Total Population (PS-TOPop) */,
- Est MI WGWSa 2010 BLOCK POP100* MI WGWSa AS 2010 Blocklevel population estimate times Mining, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI WGWTo Est MI WGWTo 2010 AS 2010 Block-Mining, groundwater withdrawals, total, in Mgal/d level population estimate times Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI WSWFr AS Est MI WSWFr 2010 2010 Blocklevel population estimate times Mining, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK POP100* MI WSWSa Est MI WSWSa 2010 2010 Block-AS level population estimate times Mining, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK POP100* MI WSWTo Est MI WSWTo 2010 AS 2010 Blocklevel population estimate times Mining, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI_WFrTo Est_MI_WFrTo_2010 /* AS 2010 Block-level population estimate times Mining, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK_POP100* MI WSaTo Est MI WSaTo 2010 /* 2010 Block-level AS population estimate times Mining, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
- BLOCK POP100* MI_Wtotl AS Est MI Wtotl 2010 /* 2010 Block-level population estimate times Mining, total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,

```
BLOCK POP100*
                                       Est PT WGWFr 2010
                   PT WGWFr
                                AS
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, groundwater withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WGWSa
                                AS
                                       Est PT WGWSa 2010
level population estimate times
                                Thermoelectric, groundwater withdrawals, saline, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WGWTo AS
                                       Est PT WGWTo 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, groundwater withdrawals, total, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WSWFr
                                AS
                                       Est PT WSWFr 2010
level population estimate times
                                Thermoelectric, surface-water withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WSWSa
                                AS
                                       Est PT WSWSa 2010
level population estimate times
                                Thermoelectric, surface-water withdrawals, saline, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WSWTo
                                AS
                                       Est PT WSWTo 2010
                                                                       2010 Block-
level population estimate times
                                Thermoelectric, surface-water withdrawals, total, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT WFrTo
                                AS
                                       Est PT WFrTo 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric, total withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
                   PT WSaTo
BLOCK POP100*
                                AS
                                       Est PT WSaTo 2010 /*
                                                                 2010 Block-level
population estimate times Thermoelectric, total withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   PT Wtotl
                                       Est PT Wtotl 2010 /*
                                AS
                                                                 2010 Block-level
population estimate times Thermoelectric, total withdrawals, total (fresh+saline), in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
```

BLOCK POP100* PO WGWFr level population estimate times withdrawals, fresh, in Mgal/d BLOCK POP100* PO WGWSa level population estimate times withdrawals, saline, in Mgal/d BLOCK POP100* PO_WGWTo level population estimate times withdrawals, total, in Mgal/d BLOCK_POP100* PO_WSWFr level population estimate times withdrawals, fresh, in Mgal/d BLOCK POP100* PO WSWSa level population estimate times withdrawals, saline, in Mgal/d

Est PO WGWFr 2010 2010 Block-Thermoelectric once-through, groundwater Divided by Total Population (PS-TOPop) */, AS Est PO WGWSa 2010 2010 Block-Thermoelectric once-through, groundwater Divided by Total Population (PS-TOPop) */, Est PO_WGWTo_2010 AS 2010 Block-Thermoelectric once-through, groundwater Divided by Total Population (PS-TOPop) */, Est_PO_WSWFr_2010 AS 2010 Block-Thermoelectric once-through, surface-water Divided by Total Population (PS-TOPop) */, Est PO WSWSa 2010 AS 2010 Block-Thermoelectric once-through, surface-water Divided by Total Population (PS-TOPop) */,

BLOCK POP100* PO WSWTo Est PO WSWTo 2010 /* AS 2010 Blocklevel population estimate times Thermoelectric once-through, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, Est PO WFrTo_2010/* BLOCK POP100* PO WFrTo AS 2010 Block-level population estimate times Thermoelectric once-through, total withdrawals, fresh, in Divided by Total Population (PS-TOPop) */, Mgal/d BLOCK POP100* PO WSaTo AS Est PO WSaTo 2010/* 2010 Block-level population estimate times Thermoelectric once-through, total withdrawals, saline, in Divided by Total Population (PS-TOPop) */, Mgal/d BLOCK_POP100* PO WTotl AS Est PO WTotl 2010 /* 2010 Block-level population estimate times Thermoelectric once-through, total withdrawals, total, in Divided by Total Population (PS-TOPop) */, Mgal/d

BLOCK_POP100* Est_PC_WGWFr_2010 PC_WGWFr AS 2010 Blocklevel population estimate times Thermoelectric recirculation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK_POP100* PC_WGWSa Est_PC_WGWSa_2010 AS 2010 Blocklevel population estimate times Thermoelectric recirculation, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, PC_WGWTo Est PC WGWTo 2010 BLOCK POP100* AS 2010 Blocklevel population estimate times Thermoelectric recirculation, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK_POP100* PC WSWFr AS Est_PC_WSWFr_2010 2010 Blocklevel population estimate times Thermoelectric recirculation, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, Est_PC_WSWSa_2010 2010 Block-BLOCK_POP100* PC WSWSa AS level population estimate times Thermoelectric recirculation, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, Est PC WSWTo 2010 BLOCK POP100* PC WSWTo AS 2010 Blocklevel population estimate times Thermoelectric recirculation, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, BLOCK POP100* PC WFrTo AS Est PC WFrTo 2010 /* 2010 Block-level population estimate times Thermoelectric recirculation, total withdrawals, fresh, in Divided by Total Population (PS-TOPop) */, Mgal/d BLOCK POP100* PC_WSaTo AS Est_PC_WSaTo_2010 /* 2010 Block-level population estimate times Thermoelectric recirculation, total withdrawals, saline, in Divided by Total Population (PS-TOPop) */, Mgal/d PC_WTotl Est_PC_WTotl_2010 /* BLOCK POP100* AS 2010 Block-level population estimate times Thermoelectric recirculation, total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* TO_WGWFr AS Est_TO_WGWFr_2010 /* 2010 Block-level population estimate times Total groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
BLOCK POP100*
                   TO WGWSa
                                      Est TO WGWSa 2010
                                AS
                                                                       2010 Block-
level population estimate times
                                Total groundwater withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   TO WGWTo AS
                                      Est TO WGWTo 2010
                                                                       2010 Block-
level population estimate times
                                Total groundwater withdrawals, total (fresh+saline), in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   TO WSWFr
                                AS
                                      Est TO WSWFr 2010
                                                                       2010 Block-
level population estimate times
                                Total surface-water withdrawals, fresh, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
BLOCK POP100*
                   TO WSWSa
                                AS
                                      Est TO WSWSa 2010
                                                                       2010 Block-
level population estimate times
                                Total surface-water withdrawals, saline, in Mgal/d
      Divided by Total Population (PS-TOPop) */,
                                      Est TO WSWTo 2010
BLOCK POP100*
                   TO WSWTo
                                AS
                                                                       2010 Block-
level population estimate times
                                Total surface-water withdrawals, total (fresh+saline), in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
                                                                 2010 Block-level
BLOCK POP100*
                   TO WFrTo
                                AS
                                      Est TO WFrTo 2010/*
population estimate times Total withdrawals, fresh, in Mgal/d
                                                                 Divided by Total
Population (PS-TOPop)
                          */,
BLOCK POP100*
                   TO WSaTo
                                AS
                                      Est TO WSaTo 2010/*
                                                                2010 Block-level
population estimate times Total withdrawals, saline, in Mgal/d
                                                                 Divided by Total
Population (PS-TOPop)
                          */,
BLOCK POP100*
                                                                2010 Block-level
                   TO WTotl
                                AS
                                      Est TO WTotl 2010 /*
population estimate times Total withdrawals, total (fresh+saline), in Mgal/d
      Divided by Total Population (PS-TOPop) */,
```

```
2015 water use projection*/
CALCULATED BLOCK PROJ 2015* PS WGWFr AS
                                                   Proj PS WGWFr 2015
      2015 Block-level population projection share times
                                                         Public Supply, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PS WGWSa AS
                                                   Proj PS WGWSa 2015
      2015 Block-level population projection share times
                                                         Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */.
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2015* PS_WGWTo AS
                                                   Proj_PS_WGWTo_2015
      2015 Block-level population projection share times
                                                         Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PS_WSWFr
                                                   Proj PS WSWFr 2015
                                            AS
      2015 Block-level population projection share times
                                                         Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
                                                                            */,
CALCULATED BLOCK PROJ 2015* PS WSWSa
                                            AS
                                                   Proj PS WSWSa 2015
      2015 Block-level population projection share times
                                                         Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
```

/*Multiplying consumption rates times 2015 block-level population projection to obtain

CALCULATED BLOCK PROJ 2015* PS WSWTo AS Proj PS WSWTo 2015 /* 2015 Block-level population projection share times Public Supply, surface-Divided by Total Population (PS-TOPop) water withdrawals, total, in Mgal/d CALCULATED BLOCK PROJ 2015* PS WFrTo AS Proj PS WFrTo 2015 /* 2015 Block-level population projection share times Public Supply, total Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK PROJ 2015* PS WSaTo AS Proj PS WSaTo 2015 /* 2015 Block-level population projection share times Public Supply, total Divided by Total Population (PS-TOPop) */, withdrawals, saline, in Mgal/d CALCULATED BLOCK_PROJ_2015* PS_Wtotl AS Proj PS Wtotl 2015 /* 2015 Block-level population projection share times Public Supply, total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* DO_WGWFr AS Proj_DO_WGWFr_2015 2015 Block-level population projection share times Domestic, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2015* DO WSWFr Proj DO WSWFr 2015 AS 2015 Block-level population projection share times Domestic, self-supplied Divided by Total Population (PS-TOPop) surface-water withdrawals, fresh, in Mgal/d */, CALCULATED BLOCK PROJ 2015* DO WFrTo Proj DO WFrTo 2015 AS 2015 Block-level population projection share times Domestic, total selfsupplied withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2015* DO_PSDel AS Proj DO PSDel 2015/* 2015 Block-level population projection share times Domestic, deliveries from Public Supply, Divided by Total Population (PS-TOPop) */, in Mgal/d CALCULATED BLOCK_PROJ_2015* DO_TOTAL AS Proj_DO_TOTSC_2015 2015 Block-level population projection share times Domestic, total use (withdrawals + deliveries) Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* IN_WGWFr Proj_IN_WGWFr_2015 AS 2015 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* IN_WGWSa Proj_IN_WGWSa_2015 AS 2015 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* IN WGWTo AS Proj IN WGWTo 2015 2015 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK PROJ 2015* IN WSWFr
                                              AS
                                                     Proj IN WSWFr 2015
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* IN_WSWSa
                                              AS
                                                     Proj_IN_WSWSa_2015
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* IN_WSWTo
                                                     Proj IN WSWTo 2015
                                              AS
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* IN WFrTo
                                              AS
                                                     Proj IN WFrTo 2015
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* IN WSaTo
                                              AS
                                                     Proj IN WSaTo 2015
      2015 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                               */,
CALCULATED BLOCK PROJ 2015* IN Wtotl
                                                     Proj IN Wtotl 2015 /*
                                                                               2015
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* IR_WGWFr
                                              AS
                                                     Proj IR WGWFr 2015
      2015 Block-level population projection share times
                                                           Irrigation, groundwater
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* IR_WSWFr
                                                     Proj_IR_WSWFr_2015
                                              AS
      2015 Block-level population projection share times
                                                           Irrigation, surface-water
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* IR WFrTo
                                                     Proj IR WFrTo 2015
                                              AS
      2015 Block-level population projection share times
                                                           Irrigation, total
                                 Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
```

CALCULATED BLOCK PROJ 2015* IC WGWFr Proj IC WGWFr 2015 AS 2015 Block-level population projection share times Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2015* IC WSWFr Proj IC WSWFr 2015 AS 2015 Block-level population projection share times Irrigation-Crop, surfacewater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROI 2015* IC WFrTo AS Proj IC WFrTo 2015/* 2015 Block-level population projection share times Irrigation-Crop, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK_PROJ_2015* IG_WGWFr
                                             AS
                                                   Proj_IG_WGWFr_2015
      2015 Block-level population projection share times
                                                          Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* IG_WSWFr
                                             AS
                                                   Proj IG WSWFr 2015
      2015 Block-level population projection share times
                                                          Irrigation-Golf, surface-
                                      Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* IG_WFrTo
                                             AS
                                                   Proj_IG_WFrTo_2015
      2015 Block-level population projection share times
                                                          Irrigation-Golf, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* LI WGWFr
                                             AS
                                                   Proj LI WGWFr 2015
      2015 Block-level population projection share times
                                                          Livestock, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2015* LI WSWFr
                                             AS
                                                   Proj LI WSWFr 2015
      2015 Block-level population projection share times
                                                          Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2015* LI WFrTo
                                             AS
                                                   Proj LI WFrTo 2015/*
                                                                              2015
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* AQ WGWFr AS
                                                   Proj AQ WGWFr 2015
      2015 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
                                                   Proj AO WGWSa 2015
```

CALCULATED BLOCK_PROJ_2015* AQ_WGWSa AS 2015 Block-level population projection share times Aquaculture, groundwater Divided by Total Population (PS-TOPop) */, withdrawals, saline, in Mgal/d CALCULATED BLOCK PROJ 2015* AO WGWTo AS Proj AO WGWTo 2015 2015 Block-level population projection share times Aquaculture, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2015* AQ_WSWFr AS Proj_AQ_WSWFr_2015 2015 Block-level population projection share times Aquaculture, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2015* AQ WSWSa AS Proj AQ WSWSa 2015 2015 Block-level population projection share times Aquaculture, surface-water Divided by Total Population (PS-TOPop) */, withdrawals, saline, in Mgal/d CALCULATED BLOCK PROJ 2015* AO WSWTo AS Proj AO WSWTo 2015 2015 Block-level population projection share times Aquaculture, surface-water Divided by Total Population (PS-TOPop) */, withdrawals, total, in Mgal/d

```
/*
CALCULATED BLOCK PROJ 2015* AO WFrTo
                                             AS
                                                   Proj_AQ_WFrTo_2015
      2015 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* AQ WSaTo
                                             AS
                                                   Proj AQ WSaTo 2015
      2015 Block-level population projection share times
                                                          Aquaculture, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* AQ WTotl
                                             AS
                                                   Proj AQ WTotl 2015
      2015 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* MI WGWFr
                                            AS
                                                   Proj MI WGWFr 2015
      2015 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* MI_WGWSa AS
                                                   Proj_MI_WGWSa_2015
      2015 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_WGWTo AS
                                                   Proj_MI_WGWTo_2015
      2015 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* MI WSWFr
                                                   Proj MI WSWFr 2015
                                             AS
      2015 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_WSWSa
                                            AS
                                                   Proj_MI_WSWSa_2015
      2015 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */.
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_WSWTo AS
                                                   Proj_MI_WSWTo_2015
      2015 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2015* MI WFrTo
                                                   Proj MI WFrTo 2015
                                             AS
      2015 Block-level population projection share times
                                                          Mining, total withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* MI WSaTo
                                                   Proj MI WSaTo 2015
                                             AS
      2015 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK_PROJ_2015* MI_Wtotl
                                                   Proj_MI_Wtotl_2015 /*
                                                                             2015
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PT_WGWFr
                                                   Proj_PT_WGWFr_2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* PT_WGWSa
                                             AS
                                                   Proj_PT_WGWSa_2015
      2015 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
/*
CALCULATED BLOCK PROJ 2015* PT WGWTo AS
                                                   Proj_PT_WGWTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* PT_WSWFr
                                            AS
                                                   Proj_PT_WSWFr_2015
      2015 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2015* PT_WSWSa
                                                   Proj PT WSWSa 2015
                                            AS
      2015 Block-level population projection share times
                                                          Thermoelectric, surface-
                                      Divided by Total Population (PS-TOPop)
water withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* PT WSWTo AS
                                                   Proj PT WSWTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric, surface-
                                      Divided by Total Population (PS-TOPop)
water withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2015* PT_WFrTo
                                                   Proj_PT_WFrTo_2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* PT_WSaTo
                                                   Proj_PT_WSaTo_2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2015* PT Wtotl
                                                   Proj PT Wtotl 2015 /*
                                             AS
                                                                             2015
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
                        Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2015* PO WGWFr AS
                                                   Proj PO WGWFr 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2015* PO WGWSa AS
                                                   Proj PO WGWSa 2015
                                                          Thermoelectric once-
      2015 Block-level population projection share times
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2015* PO WGWTo AS
                                                   Proj PO WGWTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2015* PO WSWFr
                                                   Proj PO WSWFr 2015
                                                                             /*
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2015* PO WSWSa AS
                                                   Proj PO WSWSa 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2015* PO WSWTo AS
                                                   Proj PO WSWTo 2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
```

```
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
            */,
CALCULATED BLOCK_PROJ_2015* PO_WFrTo
                                             AS
                                                   Proj_PO_WFrTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* PO WSaTo
                                                   Proj_PO_WSaTo_2015
                                             AS
      2015 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* PO WTotl
                                             AS
                                                   Proj PO WTotl 2015/*
                                                                              2015
                                             Thermoelectric once-through, total
Block-level population projection share times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2015* PC_WGWFr AS
                                                   Proj PC WGWFr 2015
                                                          Thermoelectric
      2015 Block-level population projection share times
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK PROJ 2015* PC WGWSa AS
                                                   Proj PC WGWSa 2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WGWTo AS
                                                   Proj_PC_WGWTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PC WSWFr AS
                                                   Proj PC WSWFr 2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* PC WSWSa AS
                                                   Proj PC WSWSa 2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK_PROJ_2015* PC_WSWTo AS
                                                   Proj_PC_WSWTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2015* PC_WFrTo
                                             AS
                                                   Proj_PC_WFrTo_2015
      2015 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* PC WSaTo
                                             AS
                                                   Proj PC WSaTo 2015
                                                                              /*
      2015 Block-level population projection share times
                                                          Thermoelectric
```

```
recirculation, total withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2015* PC_WTotl
                                             AS
                                                   Proj PC WTotl 2015/*
                                                                             2015
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2015* TO_WGWFr AS
                                                   Proj TO WGWFr 2015
                                                                             /*
      2015 Block-level population projection share times
                                                          Total groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* TO WGWSa AS
                                                   Proj TO WGWSa 2015
      2015 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2015* TO_WGWTo AS
                                                   Proj_TO_WGWTo_2015
      2015 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* TO WSWFr AS
                                                   Proj TO WSWFr 2015
      2015 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2015* TO_WSWSa AS
                                                   Proj_TO_WSWSa_2015
      2015 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2015* TO WSWTo AS
                                                   Proj TO WSWTo 2015
      2015 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2015* TO WFrTo
                                             AS
                                                   Proj TO WFrTo 2015
      2015 Block-level population projection share times
                                                          Total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2015* TO WSaTo
                                             AS
                                                   Proj_TO_WSaTo_2015
      2015 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop)
in Mgal/d
CALCULATED BLOCK PROJ 2015* TO WTotl
                                                   Proj TO WTotl 2015
                                             AS
      2015 Block-level population projection share times
                                                          Total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
/*Multiplying consumption rates times 2020 block-level population projection to obtain
2020 water use projection*/
CALCULATED BLOCK PROJ 2020* PS WGWFr AS
                                                   Proj PS WGWFr 2020
      2020 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* PS WGWSa AS
                                                   Proj PS WGWSa 2020
      2020 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2020* PS WGWTo AS
                                                    Proj PS WGWTo 2020
      2020 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PS WSWFr AS
                                                    Proi PS WSWFr 2020
      2020 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PS WSWSa
                                             AS
                                                    Proj PS WSWSa 2020
      2020 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROI 2020* PS WSWTo AS
                                                    Proj_PS_WSWTo_2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* PS_WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PS WSaTo
                                             AS
                                                    Proj PS WSaTo 2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Public Supply, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* PS Wtotl
                                             AS
                                                    Proj PS Wtotl 2020 /*
                                                                              2020
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* DO WGWFr AS
                                                    Proj DO WGWFr 2020
      2020 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* DO WSWFr
                                             AS
                                                    Proj DO WSWFr 2020
      2020 Block-level population projection share times
                                                          Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2020* DO WFrTo
                                             AS
                                                    Proj DO WFrTo 2020
      2020 Block-level population projection share times
                                                          Domestic, total self-
supplied withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* DO_PSDel
                                             AS
                                                    Proj DO PSDel 2020/*
                                                                              2020
Block-level population projection share times
                                             Domestic, deliveries from Public Supply,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2020* DO_TOTAL
                                             AS
                                                    Proj_DO_TOTSC_2020
      2020 Block-level population projection share times
                                                          Domestic, total use
(withdrawals + deliveries) Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* IN_WGWFr
                                                    Proj_IN_WGWFr_2020
                                             AS
      2020 Block-level population projection share times
                                                          Industrial, self-supplied
                                             Divided by Total Population (PS-TOPop)
groundwater withdrawals, fresh, in Mgal/d
      */,
```

- CALCULATED BLOCK PROJ 2020* IN WGWSa AS Proj IN WGWSa 2020 2020 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2020* IN_WGWTo AS Proj_IN_WGWTo_2020 2020 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IN_WSWFr Proj_IN_WSWFr_2020 AS 2020 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IN_WSWSa Proj IN WSWSa 2020 AS 2020 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IN_WSWTo AS Proj_IN_WSWTo_2020 2020 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IN_WFrTo AS Proj_IN_WFrTo_2020 2020 Block-level population projection share times Industrial, self-supplied total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2020* IN WSaTo Proj IN WSaTo 2020 AS 2020 Block-level population projection share times Industrial, self-supplied total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2020* IN Wtotl AS Proj IN Wtotl 2020 /* 2020 Block-level population projection share times Industrial, self-supplied total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROI 2020* IR WGWFr AS Proj IR WGWFr 2020 2020 Block-level population projection share times Irrigation, groundwater Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK PROJ 2020* IR WSWFr AS Proj IR WSWFr 2020 Irrigation, surface-water 2020 Block-level population projection share times withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2020* IR_WFrTo AS Proj_IR_WFrTo_2020 /* 2020 Block-level population projection share times Irrigation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- CALCULATED BLOCK_PROJ_2020* IC_WGWFr AS Proj_IC_WGWFr_2020 /* 2020 Block-level population projection share times Irrigation-Crop,

```
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* IC_WSWFr
                                             AS
                                                    Proj_IC_WSWFr_2020
      2020 Block-level population projection share times
                                                           Irrigation-Crop, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* IC_WFrTo
                                             AS
                                                    Proj IC WFrTo 2020/*
                                                                               2020
Block-level population projection share times
                                             Irrigation-Crop, total withdrawals, fresh,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
```

```
CALCULATED BLOCK PROI 2020* IG WGWFr
                                              AS
                                                    Proj IG WGWFr 2020
                                                                               /*
      2020 Block-level population projection share times
                                                           Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2020* IG_WSWFr
                                             AS
                                                    Proj_IG_WSWFr_2020
      2020 Block-level population projection share times
                                                           Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2020* IG_WFrTo
                                                    Proj IG WFrTo 2020
                                              AS
      2020 Block-level population projection share times
                                                           Irrigation-Golf, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2020* LI WGWFr
                                            AS
                                                   Proj LI WGWFr 2020
      2020 Block-level population projection share times
                                                         Livestock, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* LI_WSWFr
                                             AS
                                                   Proj_LI_WSWFr_2020
      2020 Block-level population projection share times
                                                         Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* LI_WFrTo
                                                   Proj_LI_WFrTo_2020/*
                                             AS
                                                                             2020
Block-level population projection share times
                                            Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK PROJ 2020* AQ WGWFr AS
                                                   Proj AQ WGWFr 2020
      2020 Block-level population projection share times
                                                         Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* AQ_WGWSa AS
                                                   Proj_AQ_WGWSa_2020
      2020 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* AQ_WGWTo AS
                                                   Proj_AQ_WGWTo_2020
      2020 Block-level population projection share times
                                                         Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2020* AO WSWFr AS
                                                   Proj AO WSWFr 2020
      2020 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROI 2020* AO WSWSa AS
                                                   Proj AQ WSWSa 2020
      2020 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* AQ WSWTo AS
                                                   Proj AQ WSWTo 2020
      2020 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2020* AO WFrTo
                                             AS
                                                   Proj AO WFrTo 2020
                                                                             /*
                                                          Aquaculture, total
      2020 Block-level population projection share times
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* AO WSaTo
                                            AS
                                                   Proj_AQ_WSaTo_2020
      2020 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* AQ WTotl
                                             AS
                                                   Proj AQ WTotl 2020
      2020 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* MI WGWFr
                                            AS
                                                   Proj MI WGWFr 2020
      2020 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2020* MI_WGWSa AS
                                                   Proj_MI_WGWSa_2020
      2020 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2020* MI_WGWTo AS
                                                   Proj_MI_WGWTo_2020
      2020 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2020* MI WSWFr
                                                   Proj MI WSWFr 2020
                                            AS
      2020 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* MI WSWSa
                                                   Proj MI WSWSa 2020
                                            AS
      2020 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2020* MI_WSWTo AS
                                                   Proj_MI_WSWTo_2020
      2020 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* MI_WFrTo
                                             AS
                                                   Proj_MI_WFrTo_2020
      2020 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop)
fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* MI WSaTo
                                                   Proi MI_WSaTo_2020
                                             AS
      2020 Block-level population projection share times
                                                          Mining, total withdrawals,
saline, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2020* MI_Wtotl
                                             AS
                                                   Proj_MI_Wtotl_2020 /*
                                                                             2020
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2020* PT WGWFr
                                             AS
                                                   Proi PT WGWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2020* PT_WGWSa
                                            AS
                                                   Proj PT WGWSa 2020
      2020 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
                                                   Proj_PT_WGWTo_2020
CALCULATED BLOCK_PROJ_2020* PT_WGWTo AS
      2020 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PT WSWFr
                                             AS
                                                   Proj PT WSWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2020
                                                          Thermoelectric, surface-
      2020 Block-level population projection share times
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2020* PT WSWTo AS
                                                   Proj PT WSWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PT WFrTo
                                                   Proj PT WFrTo 2020
                                             AS
      2020 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PT WSaTo
                                             AS
                                                   Proj PT WSaTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2020* PT Wtotl
                                             AS
                                                   Proj PT Wtotl 2020 /*
                                                                             2020
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
(fresh+saline), in Mgal/d
                        Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PO_WGWFr AS
                                                   Proj PO WGWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
                                                                             /*
CALCULATED BLOCK_PROJ_2020* PO_WGWSa AS
                                                   Proj_PO_WGWSa_2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2020* PO WGWTo AS
                                                   Proj PO WGWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
```

```
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK_PROJ_2020* PO_WSWFr AS
                                                   Proj PO WSWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
                                                   Divided by Total Population (PS-
through, surface-water withdrawals, fresh, in Mgal/d
TOPop)
             */,
CALCULATED BLOCK PROJ 2020* PO WSWSa AS
                                                   Proj PO WSWSa 2020
                                                          Thermoelectric once-
      2020 Block-level population projection share times
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2020* PO WSWTo AS
                                                   Proj PO WSWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2020* PO_WFrTo
                                             AS
                                                   Proj PO WFrTo 2020
                                                          Thermoelectric once-
      2020 Block-level population projection share times
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* PO WSaTo
                                             AS
                                                   Proj PO WSaTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
                                                   Proj_PO_WTotl_2020/*
CALCULATED BLOCK_PROJ_2020* PO_WTotl
                                             AS
                                                                             2020
Block-level population projection share times
                                             Thermoelectric once-through, total
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
CALCULATED BLOCK PROJ 2020* PC WGWFr AS
                                                   Proj PC WGWFr 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PC WGWSa AS
                                                   Proj PC WGWSa 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK_PROJ_2020* PC_WGWTo AS
                                                   Proj_PC_WGWTo_2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PC_WSWFr
                                             AS
                                                   Proj_PC_WSWFr_2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PC WSWSa AS
                                                   Proj PC WSWSa 2020
                                                                             /*
      2020 Block-level population projection share times
                                                          Thermoelectric
```

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recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* PC_WSWTo AS
                                                   Proj PC WSWTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* PC WFrTo
                                             AS
                                                   Proj PC WFrTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
                                                                             /*
CALCULATED BLOCK PROJ 2020* PC WSaTo
                                             AS
                                                   Proj PC WSaTo 2020
      2020 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2020* PC_WTotl
                                             AS
                                                   Proj PC WTotl 2020/*
                                                                              2020
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* TO WGWFr AS
                                                   Proj TO WGWFr 2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2020* TO WGWSa AS
                                                   Proj_TO_WGWSa_2020
      2020 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* TO_WGWTo AS
                                                   Proj_TO_WGWTo_2020
      2020 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2020* TO_WSWFr AS
                                                   Proj_TO_WSWFr_2020
                                                                              /*
      2020 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2020* TO_WSWSa AS
                                                   Proj_TO_WSWSa_2020
      2020 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2020* TO WSWTo AS
                                                   Proj TO WSWTo 2020
      2020 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2020* TO WFrTo
                                                   Proj TO WFrTo 2020
                                             AS
      2020 Block-level population projection share times
                                                          Total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK PROI 2020* TO WSaTo
                                            AS
                                                   Proj TO WSaTo 2020
      2020 Block-level population projection share times
                                                          Total withdrawals, saline,
            Divided by Total Population (PS-TOPop) */,
in Mgal/d
```

AS

Proj TO WTotl 2020

CALCULATED BLOCK PROI 2020* TO WTotl

```
2020 Block-level population projection share times
                                                          Total withdrawals, total
(fresh+saline), in Mgal/d
                        Divided by Total Population (PS-TOPop) */,
/*Multiplying consumption rates times 2025 block-level population projection to obtain
2025 water use projection*/
CALCULATED BLOCK_PROJ_2025* PS_WGWFr
                                             AS
                                                    Proj PS WGWFr 2025
      2025 Block-level population projection share times
                                                           Public Supply, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PS WGWSa AS
                                                    Proj PS WGWSa 2025
      2025 Block-level population projection share times
                                                           Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2025* PS_WGWTo AS
                                                    Proj_PS_WGWTo_2025
      2025 Block-level population projection share times
                                                           Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2025* PS_WSWFr
                                                    Proj_PS_WSWFr_2025
                                             AS
      2025 Block-level population projection share times
                                                           Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                              */,
CALCULATED BLOCK PROJ 2025* PS WSWSa
                                                    Proj PS WSWSa 2025
                                             AS
      2025 Block-level population projection share times
                                                           Public Supply, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, saline, in Mgal/d
                                                                              */,
CALCULATED BLOCK PROJ 2025* PS WSWTo
                                             AS
                                                    Proj PS WSWTo 2025
      2025 Block-level population projection share times
                                                           Public Supply, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, total, in Mgal/d
                                                                              */,
                                                    Proj_PS_WFrTo_2025
CALCULATED BLOCK_PROJ_2025* PS_WFrTo
                                              AS
      2025 Block-level population projection share times
                                                           Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PS WSaTo
                                                    Proj PS WSaTo 2025
                                             AS
      2025 Block-level population projection share times
                                                           Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PS Wtotl
                                                    Proj_PS_Wtotl_2025 /*
                                                                              2025
                                              AS
Block-level population projection share times
                                              Public Supply, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2025* DO WGWFr AS
                                                    Proj DO WGWFr 2025
      2025 Block-level population projection share times
                                                           Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* DO WSWFr
                                             AS
                                                    Proj DO WSWFr 2025
      2025 Block-level population projection share times
                                                           Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
```

```
CALCULATED BLOCK_PROJ_2025* DO_WFrTo
                                              AS
                                                    Proj_DO_WFrTo_2025
                                                                               /*
      2025 Block-level population projection share times
                                                           Domestic, total self-
supplied withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* DO_PSDel
                                              AS
                                                    Proj_DO_PSDel_2025/*
                                                                               2025
Block-level population projection share times
                                              Domestic, deliveries from Public Supply,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2025* DO_TOTAL
                                                    Proj_DO_TOTSC_2025
                                              AS
      2025 Block-level population projection share times
                                                           Domestic, total use
(withdrawals + deliveries) Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* IN_WGWFr
                                              AS
                                                    Proj IN WGWFr 2025
      2025 Block-level population projection share times
                                                           Industrial, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* IN WGWSa
                                              AS
                                                    Proj IN WGWSa 2025
      2025 Block-level population projection share times
                                                           Industrial, self-supplied
groundwater withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
                                              AS
CALCULATED BLOCK PROJ 2025* IN WGWTo
                                                    Proj IN WGWTo 2025
      2025 Block-level population projection share times
                                                           Industrial, self-supplied
groundwater withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* IN WSWFr
                                                    Proj IN WSWFr 2025
                                              AS
      2025 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* IN WSWSa
                                                    Proj IN WSWSa 2025
                                              AS
                                                           Industrial, self-supplied
      2025 Block-level population projection share times
surface-water withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* IN WSWTo
                                              AS
                                                    Proj IN WSWTo 2025
      2025 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* IN WFrTo
                                              AS
                                                    Proj IN WFrTo 2025
      2025 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* IN_WSaTo
                                              AS
                                                     Proj_IN_WSaTo_2025
      2025 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* IN_Wtotl
                                                     Proj_IN_Wtotl_2025 /*
                                              AS
                                                                               2025
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
```

CALCULATED BLOCK PROJ 2025* IR WGWFr AS Proj IR WGWFr 2025 /* 2025 Block-level population projection share times Irrigation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* IR WSWFr AS Proj IR WSWFr 2025 2025 Block-level population projection share times Irrigation, surface-water Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK PROJ 2025* IR WFrTo AS Proj IR WFrTo 2025 2025 Block-level population projection share times Irrigation, total Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d

CALCULATED BLOCK_PROJ_2025* IC_WGWFr Proj_IC_WGWFr_2025 AS 2025 Block-level population projection share times Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2025* IC WSWFr Proj IC WSWFr 2025 AS 2025 Block-level population projection share times Irrigation-Crop, surfacewater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* IC_WFrTo AS Proj_IC_WFrTo_2025/* 2025 Block-level population projection share times Irrigation-Crop, total withdrawals, fresh, Divided by Total Population (PS-TOPop) */, in Mgal/d

CALCULATED BLOCK PROJ 2025* IG WGWFr AS Proj IG WGWFr 2025 /* 2025 Block-level population projection share times Irrigation-Golf. groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2025* IG WSWFr AS Proj IG WSWFr 2025 2025 Block-level population projection share times Irrigation-Golf, surfacewater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2025* IG_WFrTo AS Proj_IG_WFrTo_2025 2025 Block-level population projection share times Irrigation-Golf, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

CALCULATED BLOCK_PROJ_2025* LI_WGWFr AS Proj_LI_WGWFr_2025 /* 2025 Block-level population projection share times Livestock, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK PROJ 2025* LI WSWFr
                                             AS
                                                   Proj_LI_WSWFr_2025
      2025 Block-level population projection share times
                                                          Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* LI WFrTo
                                             AS
                                                   Proi LI WFrTo 2025/*
                                                                             2025
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
CALCULATED BLOCK PROJ 2025* AQ WGWFr AS
                                                   Proj AQ WGWFr 2025
      2025 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2025* AO WGWSa AS
                                                   Proj AO WGWSa 2025
      2025 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* AO WGWTo AS
                                                   Proj AO WGWTo 2025
      2025 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* AQ WSWFr AS
                                                   Proj AQ WSWFr 2025
      2025 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2025* AQ WSWSa AS
                                                   Proj AQ WSWSa 2025
      2025 Block-level population projection share times
                                                         Aquaculture, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2025* AO WSWTo AS
                                                   Proj AO WSWTo 2025
      2025 Block-level population projection share times
                                                         Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
                                                                             /*
CALCULATED BLOCK PROJ 2025* AO WFrTo
                                            AS
                                                   Proj AO WFrTo 2025
      2025 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* AQ WSaTo
                                            AS
                                                   Proj AQ WSaTo 2025
      2025 Block-level population projection share times
                                                         Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2025* AO WTotl
                                             AS
                                                   Proj AO WTotl 2025
      2025 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* MI_WGWFr
                                            AS
                                                   Proj_MI_WGWFr_2025
      2025 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* MI_WGWSa AS
                                                   Proj_MI_WGWSa_2025
      2025 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* MI WGWTo AS
                                                   Proj MI WGWTo 2025
      2025 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROJ 2025* MI WSWFr
                                            AS
                                                   Proj MI WSWFr 2025
                                                                             /*
      2025 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* MI WSWSa AS
                                                   Proi MI WSWSa 2025
      2025 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2025* MI WSWTo AS
                                                   Proj MI WSWTo 2025
      2025 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2025* MI_WFrTo
                                             AS
                                                   Proj MI WFrTo 2025
      2025 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2025* MI_WSaTo
                                             AS
                                                   Proj_MI_WSaTo_2025
      2025 Block-level population projection share times
                                                          Mining, total withdrawals,
saline, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* MI Wtotl
                                             AS
                                                   Proj MI Wtotl 2025 /*
                                                                             2025
Block-level population projection share times
                                             Mining, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2025* PT WGWFr
                                             AS
                                                   Proj PT WGWFr 2025
      2025 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2025* PT_WGWSa
                                            AS
                                                   Proj_PT_WGWSa_2025
      2025 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* PT WGWTo AS
                                                   Proj PT WGWTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2025* PT WSWFr
                                             AS
                                                   Proj PT WSWFr 2025
      2025 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2025* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2025
      2025 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2025* PT_WSWTo AS
                                                   Proj_PT_WSWTo_2025
      2025 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PT WFrTo
                                             AS
                                                   Proj PT WFrTo 2025
                                                                             /*
      2025 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* PT WSaTo
                                             AS
                                                   Proj PT WSaTo 2025
      2025 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
```

```
CALCULATED BLOCK_PROJ_2025* PT_Wtotl AS Proj_PT_Wtotl_2025 /* 2025 Block-level population projection share times Thermoelectric, total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,

CALCULATED BLOCK_PROJ_2025* PO_WGWFr AS Proj_PO_WGWFr_2025 /* 2025 Block-level population projection share times Thermoelectric once-
```

Divided by Total Population (PS-

TOPop) */,
CALCULATED BLOCK_PROJ_2025* PO_WGWSa AS Proj_PO_WGWSa_2025 /*
2025 Block-level population projection share times Thermoelectric oncethrough, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,

through, groundwater withdrawals, fresh, in Mgal/d

- CALCULATED BLOCK_PROJ_2025* PO_WGWTo AS Proj_PO_WGWTo_2025 /* 2025 Block-level population projection share times Thermoelectric oncethrough, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2025* PO_WSWFr AS Proj_PO_WSWFr_2025 /* 2025 Block-level population projection share times Thermoelectric oncethrough, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2025* PO_WSWSa AS Proj_PO_WSWSa_2025 /* 2025 Block-level population projection share times Thermoelectric oncethrough, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2025* PO_WSWTo AS Proj_PO_WSWTo_2025 /* 2025 Block-level population projection share times Thermoelectric oncethrough, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2025* PO_WFrTo AS Proj_PO_WFrTo_2025 /* 2025 Block-level population projection share times Thermoelectric oncethrough, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */.
- CALCULATED BLOCK_PROJ_2025* PO_WSaTo AS Proj_PO_WSaTo_2025 /*
 2025 Block-level population projection share times Thermoelectric oncethrough, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop)
 */,
- CALCULATED BLOCK_PROJ_2025* PO_WTotl AS Proj_PO_WTotl_2025/* 2025 Block-level population projection share times Thermoelectric once-through, total withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
- CALCULATED BLOCK_PROJ_2025* PC_WGWFr AS Proj_PC_WGWFr_2025 /*
 2025 Block-level population projection share times Thermoelectric
 recirculation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population
 (PS-TOPop) */,

```
/*
CALCULATED BLOCK PROJ 2025* PC WGWSa AS
                                                   Proj PC WGWSa 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PC_WGWTo AS
                                                   Proj_PC_WGWTo_2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PC_WSWFr
                                                   Proj PC WSWFr 2025
                                             AS
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PC_WSWSa AS
                                                   Proj PC WSWSa 2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PC_WSWTo AS
                                                   Proj_PC_WSWTo_2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PC_WFrTo
                                             AS
                                                   Proj_PC_WFrTo_2025
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2025* PC WSaTo
                                                   Proj PC WSaTo 2025
                                                                              /*
                                             AS
      2025 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2025* PC WTotl
                                                   Proj PC WTotl 2025/*
                                             AS
                                                                              2025
Block-level population projection share times
                                             Thermoelectric recirculation, total
                                             Divided by Total Population (PS-TOPop)
withdrawals, total (fresh+saline), in Mgal/d
      */,
CALCULATED BLOCK PROJ 2025* TO WGWFr AS
                                                   Proj TO WGWFr 2025
                                                                              /*
                                                          Total groundwater
      2025 Block-level population projection share times
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* TO_WGWSa AS
                                                   Proj_TO_WGWSa_2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* TO WGWTo AS
                                                   Proj TO WGWTo 2025
      2025 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
CALCULATED BLOCK PROJ 2025* TO WSWFr AS
                                                    Proj TO WSWFr 2025
                                                                              /*
      2025 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2025* TO WSWSa AS
                                                    Proj TO WSWSa 2025
      2025 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2025* TO WSWTo AS
                                                    Proj TO WSWTo 2025
      2025 Block-level population projection share times
                                                          Total surface-water
                                             Divided by Total Population (PS-TOPop)
withdrawals, total (fresh+saline), in Mgal/d
      */,
CALCULATED BLOCK PROJ 2025* TO WFrTo
                                             AS
                                                    Proj TO WFrTo 2025
      2025 Block-level population projection share times
                                                          Total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK_PROJ_2025* TO_WSaTo
                                                    Proj_TO_WSaTo_2025
      2025 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop)
in Mgal/d
                                                   */,
CALCULATED BLOCK_PROJ_2025* TO_WTotl
                                                    Proj_TO_WTotl_2025
                                             AS
      2025 Block-level population projection share times
                                                          Total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
/*Multiplying consumption rates times 2030 block-level population projection to obtain
2030 water use projection*/
CALCULATED BLOCK PROJ 2030* PS WGWFr
                                            AS
                                                    Proj PS WGWFr 2030
      2030 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* PS WGWSa AS
                                                    Proj PS WGWSa 2030
      2030 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PS_WGWTo AS
                                                    Proj_PS_WGWTo_2030
      2030 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PS_WSWFr
                                                    Proj_PS_WSWFr_2030
                                             AS
      2030 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PS WSWSa
                                             AS
                                                    Proj PS WSWSa 2030
                                                                              /*
      2030 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* PS_WSWTo
                                             AS
                                                    Proj_PS_WSWTo_2030
                                                                              /*
      2030 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* PS_WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2030
                                                                              /*
      2030 Block-level population projection share times
                                                          Public Supply, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
```

- CALCULATED BLOCK_PROJ_2030* PS_WSaTo AS Proj_PS_WSaTo_2030 /* 2030 Block-level population projection share times Public Supply, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* PS Wtotl AS Proj PS Wtotl 2030 /* 2030 Block-level population projection share times Public Supply, total withdrawals, total Divided by Total Population (PS-TOPop) */, (fresh+saline), in Mgal/d CALCULATED BLOCK PROJ 2030* DO WGWFr AS Proj DO WGWFr 2030 2030 Block-level population projection share times Domestic, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2030* DO_WSWFr AS Proj DO WSWFr 2030 2030 Block-level population projection share times Domestic, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* DO WFrTo AS Proj DO WFrTo 2030 2030 Block-level population projection share times Domestic, total selfsupplied withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2030* DO PSDel Proj DO PSDel 2030/* AS 2030 Block-level population projection share times Domestic, deliveries from Public Supply, Divided by Total Population (PS-TOPop) */, in Mgal/d Proj_DO_TOTSC_2030 CALCULATED BLOCK PROJ 2030* DO TOTAL AS 2030 Block-level population projection share times Domestic, total use (withdrawals + deliveries) Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2030* IN WGWFr AS Proj IN WGWFr 2030 2030 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROI 2030* IN WGWSa AS Proj IN WGWSa 2030 2030 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2030* IN_WGWTo AS Proj_IN_WGWTo_2030
- CALCULATED BLOCK_PROJ_2030* IN_WSWFr AS Proj_IN_WSWFr_2030 /*
 2030 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)

 */,

 CALCULATED BLOCK_PROJ_2030* IN_WSWFr AS Proj_IN_WSWFr_2030 /*

Industrial, self-supplied

Divided by Total Population (PS-TOPop)

2030 Block-level population projection share times

groundwater withdrawals, total, in Mgal/d

CALCULATED BLOCK_PROJ_2030* IN_WSWSa AS Proj_IN_WSWSa_2030 /* 2030 Block-level population projection share times Industrial, self-supplied

```
surface-water withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* IN_WSWTo
                                              AS
                                                     Proj_IN_WSWTo_2030
      2030 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* IN WFrTo
                                              AS
                                                     Proj IN WFrTo 2030
      2030 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* IN WSaTo
                                              AS
                                                     Proj IN WSaTo 2030
      2030 Block-level population projection share times
                                                           Industrial, self-supplied
                                       Divided by Total Population (PS-TOPop)
total withdrawals, saline, in Mgal/d
                                                                               */,
CALCULATED BLOCK_PROJ_2030* IN_Wtotl
                                                     Proj IN Wtotl 2030 /*
                                                                               2030
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* IR_WGWFr
                                              AS
                                                     Proj_IR_WGWFr_2030
      2030 Block-level population projection share times
                                                           Irrigation, groundwater
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* IR WSWFr
                                                     Proj IR WSWFr 2030
                                              AS
      2030 Block-level population projection share times
                                                           Irrigation, surface-water
                                 Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* IR_WFrTo
                                              AS
                                                     Proj_IR_WFrTo_2030
      2030 Block-level population projection share times
                                                           Irrigation, total
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2030* IC_WGWFr
                                              AS
                                                    Proj_IC_WGWFr_2030
      2030 Block-level population projection share times
                                                           Irrigation-Crop.
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* IC WSWFr
                                                    Proj IC WSWFr 2030
                                              AS
      2030 Block-level population projection share times
                                                           Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* IC_WFrTo
                                              AS
                                                    Proj_IC_WFrTo_2030/*
                                                                               2030
Block-level population projection share times
                                              Irrigation-Crop, total withdrawals, fresh,
in Mgal/d
             Divided by Total Population (PS-TOPop) */,
```

```
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* IG_WSWFr
                                              AS
                                                    Proj IG WSWFr 2030
      2030 Block-level population projection share times
                                                           Irrigation-Golf, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* IG WFrTo
                                              AS
                                                    Proj_IG_WFrTo_2030
      2030 Block-level population projection share times
                                                           Irrigation-Golf, total
withdrawals, fresh, in Mgal/d
                                 Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROJ 2030* LI WGWFr
                                            AS
                                                   Proj LI WGWFr 2030
      2030 Block-level population projection share times
                                                          Livestock, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* LI WSWFr
                                             AS
                                                   Proj LI WSWFr 2030
      2030 Block-level population projection share times
                                                          Livestock, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* LI WFrTo
                                             AS
                                                   Proj LI WFrTo 2030/*
                                                                             2030
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
Mgal/d
            Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AO WGWFr AS
                                                   Proj AO WGWFr 2030
      2030 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AO WGWSa AS
                                                   Proj AO WGWSa 2030
      2030 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AQ WGWTo AS
                                                   Proj AQ WGWTo 2030
      2030 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AO WSWFr AS
                                                   Proj AO WSWFr 2030
      2030 Block-level population projection share times
                                                         Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* AO WSWSa AS
                                                   Proj AO WSWSa 2030
      2030 Block-level population projection share times
                                                         Aquaculture, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* AQ_WSWTo AS
                                                   Proj_AQ_WSWTo_2030
      2030 Block-level population projection share times
                                                         Aquaculture, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* AQ WFrTo
                                            AS
                                                   Proj AQ WFrTo 2030
                                                                             /*
      2030 Block-level population projection share times
                                                         Aquaculture, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROI 2030* AO WSaTo
                                            AS
                                                   Proj AO WSaTo 2030
      2030 Block-level population projection share times
                                                         Aquaculture, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
```

```
CALCULATED BLOCK PROI 2030* AO WTotl
                                             AS
                                                   Proj_AQ_WTotl_2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2030* MI_WGWFr
                                            AS
                                                   Proj_MI_WGWFr_2030
      2030 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* MI WGWSa AS
                                                   Proj MI WGWSa 2030
      2030 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* MI WGWTo AS
                                                   Proj MI WGWTo 2030
      2030 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2030* MI_WSWFr
                                                   Proj_MI_WSWFr_2030
                                            AS
      2030 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* MI_WSWSa
                                                   Proj_MI_WSWSa_2030
                                            AS
      2030 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* MI WSWTo AS
                                                   Proj MI WSWTo 2030
      2030 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2030* MI_WFrTo
                                             AS
                                                   Proj_MI_WFrTo_2030
      2030 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* MI_WSaTo
                                                   Proj_MI_WSaTo_2030
                                             AS
      2030 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop) */,
saline, in Mgal/d
CALCULATED BLOCK PROJ 2030* MI Wtotl
                                                   Proj MI Wtotl 2030 /*
                                                                             2030
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PT WGWFr
                                             AS
                                                   Proj PT WGWFr 2030
      2030 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PT WGWSa
                                             AS
                                                   Proj PT WGWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2030* PT WGWTo AS
                                                   Proj PT WGWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
CALCULATED BLOCK PROJ 2030* PT WSWFr
                                            AS
                                                   Proj_PT_WSWFr_2030
      2030 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* PT WSWSa AS
                                                   Proj PT WSWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
                                                   Proj PT WSWTo 2030
CALCULATED BLOCK PROJ 2030* PT WSWTo AS
      2030 Block-level population projection share times
                                                          Thermoelectric, surface-
                                      Divided by Total Population (PS-TOPop)
water withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2030* PT_WFrTo
                                             AS
                                                   Proj_PT_WFrTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PT_WSaTo
                                             AS
                                                   Proj_PT_WSaTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PT Wtotl
                                             AS
                                                   Proj PT Wtotl 2030 /*
                                                                             2030
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2030* PO WGWFr
                                                   Proi PO WGWFr 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
                                                                             /*
CALCULATED BLOCK PROJ 2030* PO WGWSa AS
                                                   Proj PO WGWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2030* PO WGWTo AS
                                                   Proj PO WGWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2030* PO WSWFr
                                                   Proj PO WSWFr 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2030* PO WSWSa AS
                                                   Proj PO WSWSa 2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2030* PO WSWTo AS
                                                   Proj PO WSWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2030* PO WFrTo
                                                   Proj PO WFrTo 2030
                                             AS
      2030 Block-level population projection share times
                                                          Thermoelectric once-
```

```
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* PO_WSaTo
                                             AS
                                                    Proj_PO_WSaTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric once-
                                             Divided by Total Population (PS-TOPop)
through, total withdrawals, saline, in Mgal/d
      */,
CALCULATED BLOCK PROJ 2030* PO WTotl
                                             AS
                                                    Proj PO WTotl 2030/*
                                                                              2030
Block-level population projection share times
                                             Thermoelectric once-through, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2030* PC WGWFr
                                            AS
                                                    Proj PC WGWFr 2030
                                                                              /*
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PC_WGWSa AS
                                                    Proj PC WGWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop)
            */.
CALCULATED BLOCK PROJ 2030* PC WGWTo AS
                                                    Proj PC WGWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PC_WSWFr
                                             AS
                                                    Proj_PC_WSWFr_2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PC WSWSa
                                             AS
                                                    Proj PC WSWSa 2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* PC WSWTo AS
                                                    Proj PC WSWTo 2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK_PROJ_2030* PC_WFrTo
                                             AS
                                                    Proj_PC_WFrTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2030* PC_WSaTo
                                             AS
                                                    Proj_PC_WSaTo_2030
      2030 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROI 2030* PC WTotl
                                             AS
                                                    Proj PC WTotl 2030/*
                                                                              2030
Block-level population projection share times
                                             Thermoelectric recirculation, total
```

```
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* TO WGWFr AS
                                                   Proj TO WGWFr 2030
                                                                             /*
      2030 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2030* TO WGWSa AS
                                                   Proj TO WGWSa 2030
      2030 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROI 2030* TO WGWTo AS
                                                   Proj_TO_WGWTo_2030
      2030 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2030* TO_WSWFr
                                                   Proj_TO_WSWFr_2030
                                                                             /*
                                            AS
      2030 Block-level population projection share times
                                                          Total surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2030* TO_WSWSa AS
                                                   Proj_TO_WSWSa_2030
      2030 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2030* TO WSWTo AS
                                                   Proj TO WSWTo 2030
      2030 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* TO WFrTo
                                                   Proj TO WFrTo 2030
                                             AS
      2030 Block-level population projection share times
                                                          Total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2030* TO WSaTo
                                             AS
                                                   Proj TO WSaTo 2030
      2030 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop)
in Mgal/d
CALCULATED BLOCK_PROJ_2030* TO_WTotl
                                             AS
                                                   Proj_TO_WTotl_2030
      2030 Block-level population projection share times
                                                         Total withdrawals, total
(fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
```

```
/*Multiplying consumption rates times 2035 block-level population projection to obtain 2035 water use projection*/
CALCULATED BLOCK_PROJ_2035* PS_WGWFr AS Proj_PS_WGWFr_2035 /* 2035 Block-level population projection share times Public Supply, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PS_WGWSa AS Proj_PS_WGWSa_2035 /* 2035 Block-level population projection share times Public Supply, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROI 2035* PS WGWTo AS
                                                    Proj PS WGWTo 2035
      2035 Block-level population projection share times
                                                          Public Supply, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PS WSWFr AS
                                                    Proi PS WSWFr 2035
      2035 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* PS WSWSa
                                             AS
                                                    Proj PS WSWSa 2035
      2035 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* PS WSWTo AS
                                                    Proj_PS_WSWTo_2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* PS_WFrTo
                                             AS
                                                    Proj_PS_WFrTo_2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Public Supply, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PS WSaTo
                                             AS
                                                    Proj PS WSaTo 2035
                                                                              /*
                                                          Public Supply, total
      2035 Block-level population projection share times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2035* PS Wtotl
                                             AS
                                                    Proj PS Wtotl 2035 /*
                                                                              2035
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* DO WGWFr AS
                                                    Proj DO WGWFr 2035
      2035 Block-level population projection share times
                                                          Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* DO WSWFr
                                             AS
                                                    Proj DO WSWFr 2035
      2035 Block-level population projection share times
                                                          Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2035* DO WFrTo
                                             AS
                                                    Proj DO WFrTo 2035
      2035 Block-level population projection share times
                                                          Domestic, total self-
supplied withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* DO_PSDel
                                             AS
                                                    Proj DO PSDel 2035/*
                                                                              2035
Block-level population projection share times
                                             Domestic, deliveries from Public Supply,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2035* DO_TOTAL
                                             AS
                                                    Proj_DO_TOTSC_2035
      2035 Block-level population projection share times
                                                          Domestic, total use
(withdrawals + deliveries) Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* IN_WGWFr
                                                    Proj_IN_WGWFr_2035
                                             AS
      2035 Block-level population projection share times
                                                          Industrial, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

- CALCULATED BLOCK PROJ 2035* IN WGWSa AS Proj IN WGWSa 2035 2035 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2035* IN_WGWTo AS Proj_IN_WGWTo_2035 2035 Block-level population projection share times Industrial, self-supplied groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2035* IN_WSWFr Proj_IN_WSWFr_2035 AS 2035 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2035* IN_WSWSa Proj IN WSWSa 2035 AS 2035 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2035* IN_WSWTo AS Proj_IN_WSWTo_2035 2035 Block-level population projection share times Industrial, self-supplied surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2035* IN_WFrTo AS Proj_IN_WFrTo_2035 2035 Block-level population projection share times Industrial, self-supplied total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2035* IN WSaTo Proj IN WSaTo 2035 AS 2035 Block-level population projection share times Industrial, self-supplied total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2035* IN Wtotl AS Proj IN Wtotl 2035 /* 2035 Block-level population projection share times Industrial, self-supplied total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROI 2035* IR WGWFr AS Proj IR WGWFr 2035 2035 Block-level population projection share times Irrigation, groundwater Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK PROJ 2035* IR WSWFr AS Proj IR WSWFr 2035 2035 Block-level population projection share times Irrigation, surface-water Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK_PROJ_2035* IR_WFrTo AS Proj_IR_WFrTo_2035 /* 2035 Block-level population projection share times Irrigation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- CALCULATED BLOCK_PROJ_2035* IC_WGWFr AS Proj_IC_WGWFr_2035 /* 2035 Block-level population projection share times Irrigation-Crop,

```
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* IC_WSWFr
                                             AS
                                                    Proj_IC_WSWFr_2035
      2035 Block-level population projection share times
                                                           Irrigation-Crop, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2035* IC_WFrTo
                                             AS
                                                    Proj IC WFrTo 2035/*
                                                                               2035
Block-level population projection share times
                                             Irrigation-Crop, total withdrawals, fresh,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
```

```
CALCULATED BLOCK PROI 2035* IG WGWFr
                                              AS
                                                    Proj IG WGWFr 2035
                                                                               /*
      2035 Block-level population projection share times
                                                           Irrigation-Golf,
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* IG_WSWFr
                                              AS
                                                    Proj_IG_WSWFr_2035
      2035 Block-level population projection share times
                                                           Irrigation-Golf, surface-
water withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
                                                                               */,
CALCULATED BLOCK_PROJ_2035* IG_WFrTo
                                                    Proj IG WFrTo 2035
                                              AS
      2035 Block-level population projection share times
                                                           Irrigation-Golf, total
                                Divided by Total Population (PS-TOPop) */.
withdrawals, fresh, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2035* LI WGWFr
                                            AS
                                                   Proj LI WGWFr 2035
      2035 Block-level population projection share times
                                                          Livestock, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* LI_WSWFr
                                             AS
                                                   Proj_LI_WSWFr_2035
      2035 Block-level population projection share times
                                                         Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* LI_WFrTo
                                                   Proj_LI_WFrTo_2035/*
                                             AS
                                                                             2035
Block-level population projection share times
                                            Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK PROJ 2035* AQ WGWFr AS
                                                   Proj AQ WGWFr 2035
      2035 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* AQ_WGWSa AS
                                                   Proj_AQ_WGWSa_2035
      2035 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* AQ_WGWTo AS
                                                   Proj_AQ_WGWTo_2035
      2035 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
```

```
CALCULATED BLOCK PROJ 2035* AO WSWFr AS
                                                   Proj AO WSWFr 2035
      2035 Block-level population projection share times
                                                          Aquaculture, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2035* AO WSWSa AS
                                                   Proj AQ WSWSa 2035
      2035 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2035* AQ WSWTo AS
                                                   Proj AQ WSWTo 2035
      2035 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2035* AO WFrTo
                                             AS
                                                   Proj_AQ_WFrTo_2035
                                                                             /*
                                                          Aquaculture, total
      2035 Block-level population projection share times
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* AQ_WSaTo
                                            AS
                                                   Proj_AQ_WSaTo_2035
      2035 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* AQ WTotl
                                             AS
                                                   Proj AQ WTotl 2035
      2035 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* MI WGWFr
                                            AS
                                                   Proj MI WGWFr 2035
      2035 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_WGWSa AS
                                                   Proj_MI_WGWSa_2035
      2035 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_WGWTo AS
                                                   Proj_MI_WGWTo_2035
      2035 Block-level population projection share times
                                                          Mining, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK PROJ 2035* MI WSWFr
                                                   Proj MI WSWFr 2035
                                            AS
      2035 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
CALCULATED BLOCK PROJ 2035* MI WSWSa
                                                   Proj MI WSWSa 2035
                                            AS
      2035 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK_PROJ_2035* MI_WSWTo AS
                                                   Proj_MI_WSWTo_2035
      2035 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* MI_WFrTo
                                             AS
                                                   Proj_MI_WFrTo_2035
      2035 Block-level population projection share times
                                                          Mining, total withdrawals,
                   Divided by Total Population (PS-TOPop)
fresh, in Mgal/d
                                                   Proi MI_WSaTo_2035
CALCULATED BLOCK PROJ 2035* MI WSaTo
                                             AS
      2035 Block-level population projection share times
                                                          Mining, total withdrawals,
saline, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK_PROJ_2035* MI_Wtotl
                                             AS
                                                   Proj_MI_Wtotl_2035 /*
                                                                             2035
Block-level population projection share times
                                             Mining, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PT WGWFr
                                             AS
                                                   Proj PT WGWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* PT_WGWSa
                                            AS
                                                   Proj PT WGWSa 2035
      2035 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* PT_WGWTo AS
                                                   Proj_PT_WGWTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* PT WSWFr
                                             AS
                                                   Proj PT WSWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2035
                                                          Thermoelectric, surface-
      2035 Block-level population projection share times
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2035* PT WSWTo AS
                                                   Proj PT WSWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PT WFrTo
                                                   Proj PT WFrTo 2035
                                             AS
      2035 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PT WSaTo
                                             AS
                                                   Proj PT WSaTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2035* PT Wtotl
                                             AS
                                                   Proj PT Wtotl 2035 /*
                                                                             2035
Block-level population projection share times
                                             Thermoelectric, total withdrawals, total
(fresh+saline), in Mgal/d
                        Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PO_WGWFr AS
                                                   Proj PO WGWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, fresh, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
                                                                             /*
CALCULATED BLOCK_PROJ_2035* PO_WGWSa AS
                                                   Proj_PO_WGWSa_2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, groundwater withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2035* PO WGWTo AS
                                                   Proj PO WGWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
```

```
through, groundwater withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
            */,
CALCULATED BLOCK_PROJ_2035* PO_WSWFr AS
                                                   Proj PO WSWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
                                                   Divided by Total Population (PS-
through, surface-water withdrawals, fresh, in Mgal/d
TOPop)
             */,
CALCULATED BLOCK PROJ 2035* PO WSWSa AS
                                                   Proj PO WSWSa 2035
                                                          Thermoelectric once-
      2035 Block-level population projection share times
through, surface-water withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
CALCULATED BLOCK PROJ 2035* PO WSWTo AS
                                                   Proj PO WSWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, surface-water withdrawals, total, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2035* PO_WFrTo
                                             AS
                                                   Proj PO WFrTo 2035
                                                          Thermoelectric once-
      2035 Block-level population projection share times
through, total withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* PO WSaTo
                                             AS
                                                   Proj PO WSaTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric once-
through, total withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
                                                   Proj_PO_WTotl_2035/*
CALCULATED BLOCK_PROJ_2035* PO_WTotl
                                             AS
                                                                             2035
Block-level population projection share times
                                             Thermoelectric once-through, total
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */.
CALCULATED BLOCK PROJ 2035* PC WGWFr AS
                                                   Proj PC WGWFr 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, fresh. in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PC WGWSa AS
                                                   Proj PC WGWSa 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */.
CALCULATED BLOCK_PROJ_2035* PC_WGWTo AS
                                                   Proj_PC_WGWTo_2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PC_WSWFr
                                             AS
                                                   Proj_PC_WSWFr_2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PC WSWSa AS
                                                   Proj PC WSWSa 2035
                                                                             /*
      2035 Block-level population projection share times
                                                          Thermoelectric
```

```
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* PC_WSWTo AS
                                                    Proj PC WSWTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* PC WFrTo
                                             AS
                                                    Proj PC WFrTo 2035
                                                          Thermoelectric
      2035 Block-level population projection share times
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
                                                                              /*
CALCULATED BLOCK PROJ 2035* PC WSaTo
                                             AS
                                                    Proj PC WSaTo 2035
      2035 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                    Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK_PROJ_2035* PC_WTotl
                                             AS
                                                    Proj PC WTotl 2035/*
                                                                              2035
Block-level population projection share times
                                             Thermoelectric recirculation, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* TO WGWFr AS
                                                    Proj TO WGWFr 2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Total groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2035* TO WGWSa AS
                                                    Proj_TO_WGWSa_2035
      2035 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* TO_WGWTo AS
                                                    Proj_TO_WGWTo_2035
      2035 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2035* TO_WSWFr AS
                                                    Proj_TO_WSWFr_2035
                                                                              /*
      2035 Block-level population projection share times
                                                          Total surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* TO_WSWSa AS
                                                    Proj_TO_WSWSa_2035
      2035 Block-level population projection share times
                                                          Total surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2035* TO WSWTo AS
                                                    Proj TO WSWTo 2035
      2035 Block-level population projection share times
                                                          Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2035* TO WFrTo
                                                    Proj TO WFrTo 2035
                                             AS
      2035 Block-level population projection share times
                                                          Total withdrawals, fresh, in
Mgal/d
             Divided by Total Population (PS-TOPop)
                                                   */,
CALCULATED BLOCK PROI 2035* TO WSaTo
                                            AS
                                                    Proj TO WSaTo 2035
      2035 Block-level population projection share times
                                                          Total withdrawals, saline,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
```

AS

Proj_TO_WTotl_2035

CALCULATED BLOCK PROI 2035* TO WTotl

*/,

```
2035 Block-level population projection share times
                                                          Total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
/*Multiplying consumption rates times 2040 block-level population projection to obtain
2040 water use projection*/
CALCULATED BLOCK_PROJ_2040* PS_WGWFr
                                            AS
                                                    Proj PS WGWFr 2040
      2040 Block-level population projection share times
                                                           Public Supply, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PS WGWSa AS
                                                    Proj PS WGWSa 2040
      2040 Block-level population projection share times
                                                          Public Supply, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2040* PS WGWTo AS
                                                    Proj PS WGWTo 2040
                                                          Public Supply, groundwater
      2040 Block-level population projection share times
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2040* PS WSWFr
                                                    Proj PS WSWFr 2040
                                             AS
      2040 Block-level population projection share times
                                                          Public Supply, surface-
                                       Divided by Total Population (PS-TOPop)
water withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2040* PS_WSWSa
                                             AS
                                                    Proj_PS_WSWSa_2040
                                                                              /*
      2040 Block-level population projection share times
                                                           Public Supply, surface-
water withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PS WSWTo
                                                    Proj PS WSWTo 2040
                                             AS
                                                                              /*
      2040 Block-level population projection share times
                                                           Public Supply, surface-
water withdrawals, total, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PS WFrTo
                                             AS
                                                    Proj PS WFrTo 2040
                                                                              /*
      2040 Block-level population projection share times
                                                          Public Supply, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK_PROJ_2040* PS_WSaTo
                                             AS
                                                    Proj_PS_WSaTo_2040
      2040 Block-level population projection share times
                                                          Public Supply, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PS_Wtotl
                                                    Proj_PS_Wtotl_2040 /*
                                             AS
                                                                              2040
Block-level population projection share times
                                             Public Supply, total withdrawals, total
(fresh+saline), in Mgal/d
                         Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* DO_WGWFr AS
                                                    Proj_DO_WGWFr_2040
      2040 Block-level population projection share times
                                                           Domestic, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* DO WSWFr
                                             AS
                                                    Proj DO WSWFr 2040
      2040 Block-level population projection share times
                                                           Domestic, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
```

```
CALCULATED BLOCK PROJ 2040* DO WFrTo
                                              AS
                                                    Proj_DO_WFrTo_2040
                                                                               /*
      2040 Block-level population projection share times
                                                           Domestic, total self-
supplied withdrawals, fresh, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* DO_PSDel
                                              AS
                                                    Proj_DO_PSDel_2040/*
                                                                               2040
Block-level population projection share times
                                              Domestic, deliveries from Public Supply,
             Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2040* DO_TOTAL
                                                    Proj_DO_TOTSC_2040
                                              AS
      2040 Block-level population projection share times
                                                           Domestic, total use
(withdrawals + deliveries) Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* IN_WGWFr
                                              AS
                                                    Proj IN WGWFr 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
groundwater withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* IN WGWSa
                                              AS
                                                    Proj IN WGWSa 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
groundwater withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
                                              AS
CALCULATED BLOCK PROJ 2040* IN WGWTo
                                                    Proj IN WGWTo 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
groundwater withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* IN WSWFr
                                                    Proj IN WSWFr 2040
                                              AS
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, fresh, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* IN WSWSa
                                                    Proj IN WSWSa 2040
                                              AS
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, saline, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* IN WSWTo
                                              AS
                                                    Proj IN WSWTo 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
surface-water withdrawals, total, in Mgal/d
                                              Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* IN WFrTo
                                              AS
                                                    Proj IN WFrTo 2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* IN_WSaTo
                                              AS
                                                     Proj_IN_WSaTo_2040
      2040 Block-level population projection share times
                                                           Industrial, self-supplied
total withdrawals, saline, in Mgal/d
                                       Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* IN_Wtotl
                                                     Proj_IN_Wtotl_2040 /*
                                              AS
                                                                               2040
Block-level population projection share times
                                              Industrial, self-supplied total
withdrawals, total (fresh+saline), in Mgal/d
                                              Divided by Total Population (PS-TOPop)
      */,
```

CALCULATED BLOCK PROJ 2040* IR WGWFr AS Proj IR WGWFr 2040 /* 2040 Block-level population projection share times Irrigation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2040* IR WSWFr AS Proj IR WSWFr 2040 2040 Block-level population projection share times Irrigation, surface-water Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d CALCULATED BLOCK PROJ 2040* IR WFrTo AS Proj IR WFrTo 2040 2040 Block-level population projection share times Irrigation, total Divided by Total Population (PS-TOPop) */, withdrawals, fresh, in Mgal/d

CALCULATED BLOCK_PROJ_2040* IC_WGWFr AS Proj_IC_WGWFr_2040 2040 Block-level population projection share times Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK PROJ 2040* IC WSWFr Proj IC WSWFr 2040 AS 2040 Block-level population projection share times Irrigation-Crop, surfacewater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) CALCULATED BLOCK_PROJ_2040* IC_WFrTo AS Proj_IC_WFrTo_2040/* 2040 Block-level population projection share times Irrigation-Crop, total withdrawals, fresh, Divided by Total Population (PS-TOPop) */, in Mgal/d

CALCULATED BLOCK PROJ 2040* IG WGWFr AS Proj IG WGWFr 2040 /* 2040 Block-level population projection share times Irrigation-Golf. groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK PROJ 2040* IG WSWFr AS Proj IG WSWFr 2040 2040 Block-level population projection share times Irrigation-Golf, surfacewater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */, CALCULATED BLOCK_PROJ_2040* IG_WFrTo AS Proj_IG_WFrTo_2040 2040 Block-level population projection share times Irrigation-Golf, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

CALCULATED BLOCK_PROJ_2040* LI_WGWFr AS Proj_LI_WGWFr_2040 /* 2040 Block-level population projection share times Livestock, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK PROJ 2040* LI WSWFr
                                             AS
                                                   Proj_LI_WSWFr_2040
      2040 Block-level population projection share times
                                                          Livestock, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* LI WFrTo
                                             AS
                                                   Proi LI WFrTo 2040/*
                                                                             2040
Block-level population projection share times
                                             Livestock, total withdrawals, fresh, in
             Divided by Total Population (PS-TOPop) */,
Mgal/d
CALCULATED BLOCK PROJ 2040* AQ WGWFr AS
                                                   Proj AQ WGWFr 2040
      2040 Block-level population projection share times
                                                          Aquaculture, groundwater
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2040* AO WGWSa AS
                                                   Proj AO WGWSa 2040
      2040 Block-level population projection share times
                                                         Aquaculture, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* AO WGWTo AS
                                                   Proj AO WGWTo 2040
      2040 Block-level population projection share times
                                                          Aquaculture, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* AQ WSWFr AS
                                                   Proj AQ WSWFr 2040
      2040 Block-level population projection share times
                                                          Aquaculture, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, fresh, in Mgal/d
CALCULATED BLOCK PROJ 2040* AQ WSWSa AS
                                                   Proj AQ WSWSa 2040
      2040 Block-level population projection share times
                                                         Aquaculture, surface-water
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* AO WSWTo AS
                                                   Proj AO WSWTo 2040
      2040 Block-level population projection share times
                                                         Aquaculture, surface-water
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2040* AO WFrTo
                                                                             /*
                                            AS
                                                   Proj AO WFrTo 2040
      2040 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* AQ WSaTo
                                            AS
                                                   Proj AQ WSaTo 2040
      2040 Block-level population projection share times
                                                         Aquaculture, total
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2040* AO WTotl
                                             AS
                                                   Proj AO WTotl 2040
      2040 Block-level population projection share times
                                                          Aquaculture, total
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* MI WGWFr
                                            AS
                                                   Proj_MI_WGWFr_2040
      2040 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* MI_WGWSa AS
                                                   Proj_MI_WGWSa_2040
      2040 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI WGWTo AS
                                                   Proj MI WGWTo 2040
      2040 Block-level population projection share times
                                                          Mining, groundwater
withdrawals, total, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
```

```
CALCULATED BLOCK PROJ 2040* MI WSWFr
                                            AS
                                                   Proj MI WSWFr 2040
                                                                             /*
      2040 Block-level population projection share times
                                                          Mining, surface-water
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI WSWSa AS
                                                   Proi MI WSWSa 2040
      2040 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2040* MI WSWTo AS
                                                   Proj MI WSWTo 2040
      2040 Block-level population projection share times
                                                          Mining, surface-water
                                Divided by Total Population (PS-TOPop) */,
withdrawals, total, in Mgal/d
CALCULATED BLOCK_PROJ_2040* MI_WFrTo
                                             AS
                                                   Proj MI WFrTo 2040
      2040 Block-level population projection share times
                                                          Mining, total withdrawals,
fresh, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* MI_WSaTo
                                             AS
                                                   Proj_MI_WSaTo_2040
      2040 Block-level population projection share times
                                                          Mining, total withdrawals,
saline, in Mgal/d
                   Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* MI Wtotl
                                             AS
                                                   Proj MI Wtotl 2040 /*
                                                                             2040
Block-level population projection share times
                                             Mining, total withdrawals, total
                         Divided by Total Population (PS-TOPop) */,
(fresh+saline), in Mgal/d
CALCULATED BLOCK PROJ 2040* PT WGWFr
                                             AS
                                                   Proj PT WGWFr 2040
                                                                             /*
      2040 Block-level population projection share times
                                                          Thermoelectric.
groundwater withdrawals, fresh, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK_PROJ_2040* PT WGWSa
                                            AS
                                                   Proj_PT_WGWSa_2040
      2040 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, saline, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PT WGWTo AS
                                                   Proj PT WGWTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric,
groundwater withdrawals, total, in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROI 2040* PT WSWFr
                                             AS
                                                   Proj PT WSWFr 2040
      2040 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, fresh, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK PROJ 2040* PT WSWSa
                                            AS
                                                   Proj PT WSWSa 2040
      2040 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, saline, in Mgal/d
                                      Divided by Total Population (PS-TOPop)
CALCULATED BLOCK_PROJ_2040* PT_WSWTo AS
                                                   Proj_PT_WSWTo_2040
      2040 Block-level population projection share times
                                                          Thermoelectric, surface-
water withdrawals, total, in Mgal/d
                                      Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PT WFrTo
                                             AS
                                                   Proj PT WFrTo 2040
                                                                             /*
      2040 Block-level population projection share times
                                                          Thermoelectric, total
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PT WSaTo
                                             AS
                                                   Proj PT WSaTo 2040
      2040 Block-level population projection share times
                                                          Thermoelectric, total
                                Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
```

```
CALCULATED BLOCK_PROJ_2040* PT_Wtotl AS Proj_PT_Wtotl_2040 /* 2040 Block-level population projection share times Thermoelectric, total withdrawals, total (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
```

- CALCULATED BLOCK_PROJ_2040* PO_WGWFr AS Proj_PO_WGWFr_2040 /* 2040 Block-level population projection share times Thermoelectric oncethrough, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2040* PO_WGWSa AS Proj_PO_WGWSa_2040 /* 2040 Block-level population projection share times Thermoelectric oncethrough, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2040* PO_WGWTo AS Proj_PO_WGWTo_2040 /* 2040 Block-level population projection share times Thermoelectric oncethrough, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2040* PO_WSWFr AS Proj_PO_WSWFr_2040 /* 2040 Block-level population projection share times Thermoelectric oncethrough, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2040* PO_WSWSa AS Proj_PO_WSWSa_2040 /* 2040 Block-level population projection share times Thermoelectric oncethrough, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2040* PO_WSWTo AS Proj_PO_WSWTo_2040 /* 2040 Block-level population projection share times Thermoelectric oncethrough, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PSTOPop) */,
- CALCULATED BLOCK_PROJ_2040* PO_WFrTo AS Proj_PO_WFrTo_2040 /* 2040 Block-level population projection share times Thermoelectric oncethrough, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
- CALCULATED BLOCK_PROJ_2040* PO_WSaTo AS Proj_PO_WSaTo_2040 /*
 2040 Block-level population projection share times Thermoelectric oncethrough, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop)
 */,
- CALCULATED BLOCK_PROJ_2040* PO_WTotl AS Proj_PO_WTotl_2040/* 2040 Block-level population projection share times Thermoelectric once-through, total withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
- CALCULATED BLOCK_PROJ_2040* PC_WGWFr AS Proj_PC_WGWFr_2040 /*
 2040 Block-level population projection share times Thermoelectric
 recirculation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population
 (PS-TOPop) */,

```
/*
CALCULATED BLOCK PROJ 2040* PC WGWSa AS
                                                   Proj PC WGWSa 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PC_WGWTo AS
                                                   Proj_PC_WGWTo_2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, groundwater withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PC_WSWFr
                                                   Proj PC WSWFr 2040
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, fresh, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* PC WSWSa AS
                                                   Proj PC WSWSa 2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, saline, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PC_WSWTo AS
                                                   Proj_PC_WSWTo_2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, surface-water withdrawals, total, in Mgal/d
                                                          Divided by Total Population
(PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* PC_WFrTo
                                             AS
                                                   Proj_PC_WFrTo_2040
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* PC WSaTo
                                                   Proj PC WSaTo 2040
                                                                              /*
                                             AS
      2040 Block-level population projection share times
                                                          Thermoelectric
recirculation, total withdrawals, saline, in Mgal/d
                                                   Divided by Total Population (PS-
TOPop)
             */,
CALCULATED BLOCK PROJ 2040* PC WTotl
                                                   Proj PC WTotl 2040/*
                                             AS
                                                                              2040
Block-level population projection share times
                                             Thermoelectric recirculation, total
                                             Divided by Total Population (PS-TOPop)
withdrawals, total (fresh+saline), in Mgal/d
      */,
CALCULATED BLOCK PROJ 2040* TO WGWFr AS
                                                   Proj TO WGWFr 2040
                                                                              /*
      2040 Block-level population projection share times
                                                          Total groundwater
withdrawals, fresh, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* TO_WGWSa AS
                                                   Proj_TO_WGWSa_2040
                                                                              /*
      2040 Block-level population projection share times
                                                          Total groundwater
withdrawals, saline, in Mgal/d
                                Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROJ 2040* TO WGWTo AS
                                                   Proj TO WGWTo 2040
      2040 Block-level population projection share times
                                                          Total groundwater
withdrawals, total (fresh+saline), in Mgal/d
                                             Divided by Total Population (PS-TOPop)
      */,
```

```
CALCULATED BLOCK PROJ 2040* TO WSWFr AS
                                                  Proj TO WSWFr 2040
                                                                            /*
      2040 Block-level population projection share times
                                                         Total surface-water
withdrawals, fresh, in Mgal/d
                               Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK PROI 2040* TO WSWSa AS
                                                  Proj TO WSWSa 2040
      2040 Block-level population projection share times
                                                         Total surface-water
                               Divided by Total Population (PS-TOPop) */,
withdrawals, saline, in Mgal/d
CALCULATED BLOCK PROJ 2040* TO WSWTo AS
                                                  Proj TO WSWTo 2040
      2040 Block-level population projection share times
                                                         Total surface-water
withdrawals, total (fresh+saline), in Mgal/d
                                            Divided by Total Population (PS-TOPop)
      */,
CALCULATED BLOCK PROJ 2040* TO WFrTo
                                            AS
                                                  Proj TO WFrTo 2040
      2040 Block-level population projection share times
                                                         Total withdrawals, fresh, in
            Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* TO_WSaTo
                                                  Proj_TO_WSaTo_2040
      2040 Block-level population projection share times
                                                         Total withdrawals, saline,
            Divided by Total Population (PS-TOPop) */,
in Mgal/d
CALCULATED BLOCK_PROJ_2040* TO_WTotl
                                                  Proj_TO_WTotl_2040
                                            AS
      2040 Block-level population projection share times
                                                        Total withdrawals, total
(fresh+saline), in Mgal/d
                        Divided by Total Population (PS-TOPop) */
FROM SC BLOCK A
LEFT JOIN SC_COUNTY B ON A.STATECOUNTY=B.STATECOUNTY
LEFT JOIN WP2014 POP C ON A.STATECOUNTY=C.STATECOUNTY
LEFT JOIN SC USGS D ON A.STATECOUNTY=D.FIPS
quit;
/*Data for example in Technical document*/
DATA AL Tract 10100 (WHERE= (TRACT = '010100'));
SET AL_SHARES;
RUN;
/*Exporting datasets to Excel*/
PROC EXPORT DATA= AL Shares OUTFILE= "I:\WSM\ygonzalez\SAS Work
```

Library\Alabama Block Level Shares 2010 USGS Water Use 2014 Published Woods Poole County Projections.csv" DBMS=csv REPLACE; RUN;

PROC EXPORT DATA= GA_Shares OUTFILE= "I:\WSM\ygonzalez\SAS Work
Library\Georgia Block Level Shares 2010 USGS Water Use 2014 Published Woods Poole County Projections.csv" DBMS=csv REPLACE; RUN;

PROC EXPORT DATA= SC_Shares OUTFILE= "I:\WSM\ygonzalez\SAS Work Library\South Carolina Block Level Shares 2010 USGS Water Use 2014 Published Woods Poole County

Projections.csv" DBMS=csv REPLACE; RUN;

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PROC EXPORT DATA= AL_TRACT_10100 OUTFILE= "I:\WSM\ygonzalez\SAS Work Library\Alabama Tract 10100 Population Water Use Projections.csv" DBMS=csv REPLACE; RUN;

Appendix B. List of fields and definitions in the following GIS layer

- 1) AL_CensusBlocks_20102040_Population_WaterUse
- 2) GA_CensusBlocks_20102040_Population_WaterUse
- 3) SC_CensusBlocks_20102040_Population_WaterUse

These files are found in this geodatabase:

H:\rm\WSM\NFRWSP\ALGASC BlockLevel Population WaterUse Projections 13JUL2015. gdb

Field	Туре	Description
STATEFP10	String	2010 Census state FIPS code
COUNTYFP10	String	2010 Census county FIPS code
TRACTCE10	String	Census 2010 census tract code
BLOCKCE10	String	Census 2010 tabulation block number
GEOID10	String	Block identifier; a concatenation of 2010 Census state FIPS code, 2010 Census county FIPS code,
		2010 Census census tract code and 2010 Census
NAMERO	0	tabulation block Number.
NAME10	String	2010 Census tabulation block name; a
		concatenation of 'Block', and the current tabulation block Number
MTFCC10	String	MAF/TIGER feature class code (G5040)
UR10	String	2010 Census urban/rural indicator
UACE10	String	2010 Census urban area code
FUNCSTAT10	String	2010 Census functional status
ALAND10	Number	2010 Census land area
AWATER10	Number	2010 Census water area
INTPTLAT10	String	2010 Census latitude of the internal point
INTPTLON0	String	2010 Census longitude of the internal point
SUMLEV	Number	Summary Level (Block =101)
LOGRECNO	Number	Unique logical record number
STATE	Number	2010 Census state FIPS code
COUNTY	Number	2010 Census county FIPS code
TRACT	Number	Census 2010 census tract code
BLOCK	Number	Census 2010 tabulation block number
ZCTA5	Number	ZIP Code Tabulation Area
	Number	Block identifier; a concatenation of 2010 Census
		state FIPS code, 2010 Census county FIPS code,
		2010 Census census tract code and 2010 Census
GEOID10		tabulation block Number.
STATECOUNTY	Number	Combined state county FIPS
BLOCK_POP100	Number	2010 Total Population -Block

Field	Type	Description
BLOCK_HU100	Number	2010 Total Housing Units - Block
COUNTY_POP100	Number	2010 Total Population -County
COUNTY_HU100	Number	2010 Total Housing Units - County
	Number	Share of total 2010 population in the county located
BLOCK_POP_SHARE		in the census block
	Number	Share of total 2010 housing units in the county
BLOCK_HU_SHARE		located in the census block
	Number	2015 population projection from 2014 Complete
_2015		and Demographic Data Source by Woods and Poole
	Number	2020 population projection from 2014 Complete
_2020		and Demographic Data Source by Woods and Poole
	Number	2025 population projection from 2014 Complete
_2025		and Demographic Data Source by Woods and Poole
	Number	2030 population projection from 2014 Complete
_2030	_	and Demographic Data Source by Woods and Poole
	Number	2035 population projection from 2014 Complete
_2035		and Demographic Data Source by Woods and Poole
2010	Number	2040 population projection from 2014 Complete
_2040		and Demographic Data Source by Woods and Poole
	Number	Estimated share of 2015 population projection
DI OCIZ DDOI 2015		from 2014 Complete and Demographic Data Source
BLOCK_PROJ_2015	Ml	by Woods and Poole
	Number	Estimated share of 2020 population projection
BLOCK_PROJ_2020		from 2014 Complete and Demographic Data Source by Woods and Poole
DLUCK_FRUJ_2020	Number	Estimated share of 2025 population projection
	Number	from 2014 Complete and Demographic Data Source
BLOCK_PROJ_2025		by Woods and Poole
220011_1 1(0)_2020	Number	Estimated share of 2030 population projection
	1.4111001	from 2014 Complete and Demographic Data Source
BLOCK_PROJ_2030		by Woods and Poole
,	Number	Estimated share of 2035 population projection
		from 2014 Complete and Demographic Data Source
BLOCK_PROJ_2035		by Woods and Poole
·	Number	Estimated share of 2040 population projection
		from 2014 Complete and Demographic Data Source
BLOCK_PROJ_2040		by Woods and Poole
PS_TOPop	Number	Public Supply, total population served, in thousands
	Number	Public Supply, groundwater withdrawals, fresh, in
PS_WGWFr		gallons per person per day
	Number	Public Supply, groundwater withdrawals, saline, in
PS_WGWSa		gallons per person per day

Field	Туре	Description
	Number	Public Supply, groundwater withdrawals, total, in
PS_WGWTo		gallons per person per day
	Number	Public Supply, surface-water withdrawals, fresh, in
PS_WSWFr		gallons per person per day
	Number	Public Supply, surface-water withdrawals, saline, in
PS_WSWSa		gallons per person per day
	Number	Public Supply, surface-water withdrawals, total, in
PS_WSWTo		gallons per person per day
	Number	Public Supply, total withdrawals, fresh, in gallons
PS_WFrTo		per person per day
	Number	Public Supply, total withdrawals, saline, in gallons
PS_WSaTo		per person per day
	Number	Public Supply, total withdrawals, total
PS_Wtotl		(fresh+saline), in gallons per person per day
	Number	Domestic, self-supplied groundwater withdrawals,
DO_WGWFr		fresh, in gallons per person per day
	Number	Domestic, self-supplied surface-water withdrawals,
DO_WSWFr		fresh, in gallons per person per day
	Number	Domestic, total self-supplied withdrawals, fresh, in
DO_WFrTo		gallons per person per day
,	Number	Domestic, deliveries from Public Supply, in gallons
DO_PSDel		per person per day
DO BODO	Number	Domestic, publicly supplied per capita use, in
DO_PSPCp	27 1	gallons/day [DO-PSDel/PS-TOPop]
DO_TOTAL	Number	#N/A
	Number	Industrial, self-supplied groundwater withdrawals,
IN_WGWFr		fresh, in gallons per person per day
IN MACCINIC	Number	Industrial, self-supplied groundwater withdrawals,
IN_WGWSa	3.7 1	saline, in gallons per person per day
IN TAICTAIM	Number	Industrial, self-supplied groundwater withdrawals,
IN_WGWTo	NY 1	total, in gallons per person per day
INI MATCHATE	Number	Industrial, self-supplied surface-water withdrawals,
IN_WSWFr	Name le con	fresh, in gallons per person per day
IN MICMICA	Number	Industrial, self-supplied surface-water withdrawals,
IN_WSWSa	Number	saline, in gallons per person per day
IN MCMT	Number	Industrial, self-supplied surface-water withdrawals,
IN_WSWTo	Number	total, in gallons per person per day
IN WErTo	Number	Industrial, self-supplied total withdrawals, fresh, in
IN_WFrTo	Number	gallons per person per day Industrial, self-supplied total withdrawals, saline, in
IN_WSaTo	Nulliber	gallons per person per day
11N_VV 3a 1 U	Number	Industrial, self-supplied total withdrawals, total
IN_Wtotl	Nullibel	
IIN_VV LULI		(fresh+saline), in gallons per person per day

Field	Туре	Description
	Number	Irrigation, groundwater withdrawals, fresh, in
IR_WGWFr		gallons per person per day
	Number	Irrigation, surface-water withdrawals, fresh, in
IR_WSWFr		gallons per person per day
	Number	Irrigation, total withdrawals, fresh, in gallons per
IR_WFrTo		person per day
IC_WGWFr	Number	Irrigation-Crop, groundwater withdrawals, fresh, in gallons per person per day
	Number	Irrigation-Crop, surface-water withdrawals, fresh,
IC_WSWFr		in gallons per person per day
	Number	Irrigation-Crop, total withdrawals, fresh, in gallons
IC_WFrTo		per person per day
IG_WGWFr	Number	Irrigation-Golf, groundwater withdrawals, fresh, in gallons per person per day
	Number	Irrigation-Golf, surface-water withdrawals, fresh, in
IG_WSWFr		gallons per person per day
	Number	Irrigation-Golf, total withdrawals, fresh, in gallons
IG_WFrTo		per person per day
	Number	Livestock, groundwater withdrawals, fresh, in
LI_WGWFr		gallons per person per day
	Number	Livestock, surface-water withdrawals, fresh, in
LI_WSWFr		gallons per person per day
	Number	Livestock, total withdrawals, fresh, in gallons per
LI_WFrTo		person per day
	Number	Aquaculture, groundwater withdrawals, fresh, in
AQ_WGWFr		gallons per person per day
	Number	Aquaculture, groundwater withdrawals, saline, in
AQ_WGWSa		gallons per person per day
	Number	Aquaculture, groundwater withdrawals, total, in
AQ_WGWTo		gallons per person per day
	Number	Aquaculture, surface-water withdrawals, fresh, in
AQ_WSWFr		gallons per person per day
	Number	Aquaculture, surface-water withdrawals, saline, in
AQ_WSWSa		gallons per person per day
	Number	Aquaculture, surface-water withdrawals, total, in
AQ_WSWTo		gallons per person per day
	Number	Aquaculture, total withdrawals, fresh, in gallons per
AQ_WFrTo		person per day
	Number	Aquaculture, total withdrawals, saline, in gallons
AQ_WSaTo		per person per day
	Number	Aquaculture, total withdrawals, total (fresh+saline),
AQ_WTotl		in gallons per person per day
	Number	Mining, groundwater withdrawals, fresh, in gallons
MI_WGWFr		per person per day

Field	Туре	Description
	Number	Mining, groundwater withdrawals, saline, in gallons
MI_WGWSa		per person per day
	Number	Mining, groundwater withdrawals, total, in gallons
MI_WGWTo		per person per day
	Number	Mining, surface-water withdrawals, fresh, in gallons
MI_WSWFr		per person per day
	Number	Mining, surface-water withdrawals, saline, in
MI_WSWSa		gallons per person per day
	Number	Mining, surface-water withdrawals, total, in gallons
MI_WSWTo		per person per day
	Number	Mining, total withdrawals, fresh, in gallons per
MI_WFrTo		person per day
	Number	Mining, total withdrawals, saline, in gallons per
MI_WSaTo		person per day
	Number	Mining, total withdrawals, total (fresh+saline), in
MI_Wtotl		gallons per person per day
	Number	Thermoelectric, groundwater withdrawals, fresh, in
PT_WGWFr		gallons per person per day
	Number	Thermoelectric, groundwater withdrawals, saline,
PT_WGWSa		in gallons per person per day
	Number	Thermoelectric, groundwater withdrawals, total, in
PT_WGWTo		gallons per person per day
D	Number	Thermoelectric, surface-water withdrawals, fresh,
PT_WSWFr		in gallons per person per day
DE TATALA	Number	Thermoelectric, surface-water withdrawals, saline,
PT_WSWSa	27 1	in gallons per person per day
DEL TATCTATE	Number	Thermoelectric, surface-water withdrawals, total,
PT_WSWTo	NT 1	in gallons per person per day
DT MET	Number	Thermoelectric, total withdrawals, fresh, in gallons
PT_WFrTo	Name le con	per person per day
DT MC To	Number	Thermoelectric, total withdrawals, saline, in gallons
PT_WSaTo	Number	per person per day Thermoelectric, total withdrawals, total
DT West	Number	
PT_Wtotl	Number	(fresh+saline), in gallons per person per day Thermoelectric, power generated, in gigawatt-
PT_Power	Number	hours
r i_r owei	Number	Thermoelectric once-through, groundwater
PO_WGWFr	Number	withdrawals, fresh, in gallons per person per day
I O_VV U VV I'I	Number	Thermoelectric once-through, groundwater
PO_WGWSa	Nullibel	withdrawals, saline, in gallons per person per day
10_************	Number	Thermoelectric once-through, groundwater
PO_WGWTo	Nullibel	withdrawals, total, in gallons per person per day
10_************************************	Number	Thermoelectric once-through, surface-water
PO_WSWFr	Nullibel	withdrawals, fresh, in gallons per person per day
I O V V O V V I I		witharawais, iresii, iii ganons per person per day

Field	Туре	Description
	Number	Thermoelectric once-through, surface-water
PO_WSWSa		withdrawals, saline, in gallons per person per day
	Number	Thermoelectric once-through, surface-water
PO_WSWTo		withdrawals, total, in gallons per person per day
	Number	Thermoelectric once-through, total withdrawals,
PO_WFrTo		fresh, in gallons per person per day
	Number	Thermoelectric once-through, total withdrawals,
PO_WSaTo		saline, in gallons per person per day
	Number	Thermoelectric once-through, total withdrawals,
PO_WTotl		total, in gallons per person per day
	Number	Thermoelectric once-through, power generated, in
PO_Power		gigawatt-hours
	Number	Thermoelectric recirculation, groundwater
PC_WGWFr		withdrawals, fresh, in gallons per person per day
	Number	Thermoelectric recirculation, groundwater
PC_WGWSa		withdrawals, saline, in gallons per person per day
	Number	Thermoelectric recirculation, groundwater
PC_WGWTo		withdrawals, total, in gallons per person per day
	Number	Thermoelectric recirculation, surface-water
PC_WSWFr		withdrawals, fresh, in gallons per person per day
	Number	Thermoelectric recirculation, surface-water
PC_WSWSa		withdrawals, saline, in gallons per person per day
	Number	Thermoelectric recirculation, surface-water
PC_WSWTo		withdrawals, total, in gallons per person per day
	Number	Thermoelectric recirculation, total withdrawals,
PC_WFrTo		fresh, in gallons per person per day
	Number	Thermoelectric recirculation, total withdrawals,
PC_WSaTo		saline, in gallons per person per day
	Number	Thermoelectric recirculation, total withdrawals,
PC_WTotl		total (fresh+saline), in gallons per person per day
	Number	Thermoelectric recirculation, power generated, in
PC_Power		gigawatt-hours
	Number	Total groundwater withdrawals, fresh, in gallons
TO_WGWFr		per person per day
	Number	Total groundwater withdrawals, saline, in gallons
TO_WGWSa		per person per day
	Number	Total groundwater withdrawals, total
TO_WGWTo		(fresh+saline), in gallons per person per day
	Number	Total surface-water withdrawals, fresh, in gallons
TO_WSWFr		per person per day
	Number	Total surface-water withdrawals, saline, in gallons
TO_WSWSa		per person per day
	Number	Total surface-water withdrawals, total
TO_WSWTo		(fresh+saline), in gallons per person per day

Field	Туре	Description
	Number	Total withdrawals, fresh, in gallons per person per
TO_WFrTo		day
	Number	Total withdrawals, saline, in gallons per person per
TO_WSaTo		day
_	Number	Total withdrawals, total (fresh+saline), in gallons
TO_WTotl		per person per day
	Number	2010 Block-level Public Supply, groundwater
Est_PS_WGWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Public Supply, groundwater
Est_PS_WGWSa_2010		withdrawals, saline, in gallons per day
	Number	2010 Block-level Public Supply, groundwater
Est_PS_WGWTo_2010		withdrawals, total, in gallons per day
	Number	2010 Block-level Public Supply, surface-water
Est_PS_WSWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Public Supply, surface-water
Est_PS_WSWSa_2010		withdrawals, saline, in gallons per day
	Number	2010 Block-level Public Supply, surface-water
Est_PS_WSWTo_2010		withdrawals, total, in gallons per day
	Number	2010 Block-level Public Supply, total withdrawals,
Est_PS_WFrTo_2010		fresh, in gallons per day
	Number	2010 Block-level Public Supply, total withdrawals,
Est_PS_WSaTo_2010		saline, in gallons per day
	Number	2010 Block-level Public Supply, total withdrawals,
Est_PS_Wtotl_2010		total (fresh+saline), in gallons per day
	Number	2010 Block-level Domestic, self-supplied
Est_DO_WGWFr_2010		groundwater withdrawals, fresh, in gallons per day
	Number	2010 Block-level Domestic, self-supplied surface-
Est_DO_WSWFr_2010		water withdrawals, fresh, in gallons per day
	Number	2010 Block-level Domestic, total self-supplied
Est_DO_WFrTo_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Domestic, deliveries from Public
Est_DO_PSDel_2010		Supply, in gallons per day
	Number	2010 Block-level Domestic, publicly supplied per
Est_DO_TOTAL_2010		capita use, in gallons/day [DO-PSDel/PS-TOPop]
	Number	2010 Block-level Industrial, self-supplied
Est_IN_WGWFr_2010		groundwater withdrawals, fresh, in gallons per day
	Number	2010 Block-level Industrial, self-supplied
Est_IN_WGWSa_2010		groundwater withdrawals, saline, in gallons per day
	Number	2010 Block-level Industrial, self-supplied
Est_IN_WGWTo_2010		groundwater withdrawals, total, in gallons per day
	Number	2010 Block-level Industrial, self-supplied surface-
Est_IN_WSWFr_2010		water withdrawals, fresh, in gallons per day
	Number	2010 Block-level Industrial, self-supplied surface-
Est_IN_WSWSa_2010		water withdrawals, saline, in gallons per day

Field	Туре	Description
	Number	2010 Block-level Industrial, self-supplied surface-
Est_IN_WSWTo_2010		water withdrawals, total, in gallons per day
	Number	2010 Block-level Industrial, self-supplied total
Est_IN_WFrTo_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Industrial, self-supplied total
Est_IN_WSaTo_2010		withdrawals, saline, in gallons per day
	Number	2010 Block-level Industrial, self-supplied total
Est_IN_Wtotl_2010		withdrawals, total (fresh+saline), in gallons per day
	Number	2010 Block-level Irrigation, groundwater
Est_IR_WGWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Irrigation, surface-water
Est_IR_WSWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Irrigation, total withdrawals,
Est_IR_WFrTo_2010		fresh, in gallons per day
	Number	2010 Block-level Irrigation-Crop, groundwater
Est_IC_WGWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Irrigation-Crop, surface-water
Est_IC_WSWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Irrigation-Crop, total withdrawals,
Est_IC_WFrTo_2010		fresh, in gallons per day
	Number	2010 Block-level Irrigation-Golf, groundwater
Est_IG_WGWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Irrigation-Golf, surface-water
Est_IG_WSWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Irrigation-Golf, total withdrawals,
Est_IG_WFrTo_2010		fresh, in gallons per day
	Number	2010 Block-level Livestock, groundwater
Est_LI_WGWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Livestock, surface-water
Est_LI_WSWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Livestock, total withdrawals,
Est_LI_WFrTo_2010		fresh, in gallons per day
	Number	2010 Block-level Aquaculture, groundwater
Est_AQ_WGWFr_2010		withdrawals, fresh, in gallons per day
n	Number	2010 Block-level Aquaculture, groundwater
Est_AQ_WGWSa_2010		withdrawals, saline, in gallons per day
n	Number	2010 Block-level Aquaculture, groundwater
Est_AQ_WGWTo_2010		withdrawals, total, in gallons per day
n	Number	2010 Block-level Aquaculture, surface-water
Est_AQ_WSWFr_2010		withdrawals, fresh, in gallons per day
E . AO MYSTAGO COLO	Number	2010 Block-level Aquaculture, surface-water
Est_AQ_WSWSa_2010	3.7	withdrawals, saline, in gallons per day
T . AO MAGNATA COAC	Number	2010 Block-level Aquaculture, surface-water
Est_AQ_WSWTo_2010		withdrawals, total, in gallons per day

Field	Туре	Description
	Number	2010 Block-level Aquaculture, total withdrawals,
Est_AQ_WFrTo_2010		fresh, in gallons per day
	Number	2010 Block-level Aquaculture, total withdrawals,
Est_AQ_WSaTo_2010		saline, in gallons per day
	Number	2010 Block-level Aquaculture, total withdrawals,
Est_AQ_WTotl_2010		total (fresh+saline), in gallons per day
	Number	2010 Block-level Mining, groundwater
Est_MI_WGWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Mining, groundwater
Est_MI_WGWSa_2010		withdrawals, saline, in gallons per day
	Number	2010 Block-level Mining, groundwater
Est_MI_WGWTo_2010		withdrawals, total, in gallons per day
	Number	2010 Block-level Mining, surface-water
Est_MI_WSWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Mining, surface-water
Est_MI_WSWSa_2010		withdrawals, saline, in gallons per day
	Number	2010 Block-level Mining, surface-water
Est_MI_WSWTo_2010		withdrawals, total, in gallons per day
	Number	2010 Block-level Mining, total withdrawals, fresh,
Est_MI_WFrTo_2010		in gallons per day
	Number	2010 Block-level Mining, total withdrawals, saline,
Est_MI_WSaTo_2010		in gallons per day
	Number	2010 Block-level Mining, total withdrawals, total
Est_MI_Wtotl_2010		(fresh+saline), in gallons per day
	Number	2010 Block-level Thermoelectric, groundwater
Est_PT_WGWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Thermoelectric, groundwater
Est_PT_WGWSa_2010		withdrawals, saline, in gallons per day
	Number	2010 Block-level Thermoelectric, groundwater
Est_PT_WGWTo_2010		withdrawals, total, in gallons per day
	Number	2010 Block-level Thermoelectric, surface-water
Est_PT_WSWFr_2010		withdrawals, fresh, in gallons per day
	Number	2010 Block-level Thermoelectric, surface-water
Est_PT_WSWSa_2010		withdrawals, saline, in gallons per day
	Number	2010 Block-level Thermoelectric, surface-water
Est_PT_WSWTo_2010		withdrawals, total, in gallons per day
	Number	2010 Block-level Thermoelectric, total withdrawals,
Est_PT_WFrTo_2010		fresh, in gallons per day
	Number	2010 Block-level Thermoelectric, total withdrawals,
Est_PT_WSaTo_2010		saline, in gallons per day
	Number	2010 Block-level Thermoelectric, total withdrawals,
Est_PT_Wtotl_2010		total (fresh+saline), in gallons per day
	Number	2010 Block-level Thermoelectric, power generated,
Est_PT_Power_2010		in gigawatt-hours

Field	Туре	Description
	Number	2010 Block-level Thermoelectric once-through,
Est_PO_WGWFr_2010		groundwater withdrawals, fresh, in gallons per day
	Number	2010 Block-level Thermoelectric once-through,
Est_PO_WGWSa_2010		groundwater withdrawals, saline, in gallons per day
	Number	2010 Block-level Thermoelectric once-through,
Est_PO_WGWTo_2010		groundwater withdrawals, total, in gallons per day
	Number	2010 Block-level Thermoelectric once-through,
Est_PO_WSWFr_2010		surface-water withdrawals, fresh, in gallons per day
	Number	2010 Block-level Thermoelectric once-through,
		surface-water withdrawals, saline, in gallons per
Est_PO_WSWSa_2010		day
	Number	2010 Block-level Thermoelectric once-through,
Est_PO_WSWTo_2010		surface-water withdrawals, total, in gallons per day
	Number	2010 Block-level Thermoelectric once-through,
Est_PO_WFrTo_2010		total withdrawals, fresh, in gallons per day
	Number	2010 Block-level Thermoelectric once-through,
Est_PO_WSaTo_2010		total withdrawals, saline, in gallons per day
	Number	2010 Block-level Thermoelectric once-through,
Est_PO_WTotl_2010		total withdrawals, total, in gallons per day
	Number	2010 Block-level Thermoelectric once-through,
Est_PO_Power_2010		power generated, in gigawatt-hours
	Number	2010 Block-level Thermoelectric recirculation,
Est_PC_WGWFr_2010	_	groundwater withdrawals, fresh, in gallons per day
	Number	2010 Block-level Thermoelectric recirculation,
Est_PC_WGWSa_2010	_	groundwater withdrawals, saline, in gallons per day
	Number	2010 Block-level Thermoelectric recirculation,
Est_PC_WGWTo_2010		groundwater withdrawals, total, in gallons per day
E - DG MAGNATE 0040	Number	2010 Block-level Thermoelectric recirculation,
Est_PC_WSWFr_2010		surface-water withdrawals, fresh, in gallons per day
	Number	2010 Block-level Thermoelectric recirculation,
Est DC MCMC - 2040		surface-water withdrawals, saline, in gallons per
Est_PC_WSWSa_2010	M 1.	day
Est DC MCMT 2040	Number	2010 Block-level Thermoelectric recirculation,
Est_PC_WSWTo_2010	Maran le	surface-water withdrawals, total, in gallons per day
Eat DC METTA 2010	Number	2010 Block-level Thermoelectric recirculation, total
Est_PC_WFrTo_2010	Number	withdrawals, fresh, in gallons per day
Eat DC MCaTa 2010	Number	2010 Block-level Thermoelectric recirculation, total
Est_PC_WSaTo_2010	Number	withdrawals, saline, in gallons per day 2010 Block-level Thermoelectric recirculation, total
Est_PC_WTotl_2010	MUIIIDEI	withdrawals, total (fresh+saline), in gallons per day
L3L1 G_VV 10H_2010	Number	2010 Block-level Thermoelectric recirculation,
Est_PC_Power_2010	MUIIIDEI	power generated, in gigawatt-hours
LSCI CI OWEI_ZUIU	Number	2010 Block-level Total groundwater withdrawals,
Est_TO_WGWFr_2010	INGILIDEI	fresh, in gallons per day
LSt_10_WGWF1_2010	1	n con, m ganono per uay

Field	Туре	Description
	Number	2010 Block-level Total groundwater withdrawals,
Est_TO_WGWSa_2010	.,	saline, in gallons per day
1 1_1131.302010	Number	2010 Block-level Total groundwater withdrawals,
Est_TO_WGWTo_2010	Trainibor	total (fresh+saline), in gallons per day
200_10	Number	2010 Block-level Total surface-water withdrawals,
Est_TO_WSWFr_2010	114111501	fresh, in gallons per day
200_10_1101111_2010	Number	2010 Block-level Total surface-water withdrawals,
Est_TO_WSWSa_2010		saline, in gallons per day
	Number	2010 Block-level Total surface-water withdrawals,
Est_TO_WSWTo_2010		total (fresh+saline), in gallons per day
	Number	2010 Block-level Total withdrawals, fresh, in
Est_TO_WFrTo_2010		gallons per day
	Number	2010 Block-level Total withdrawals, saline, in
Est_TO_WSaTo_2010		gallons per day
_	Number	2010 Block-level Total withdrawals, total
Est_TO_WTotl_2010		(fresh+saline), in gallons per day
-	Number	2015 Block-level Public Supply, groundwater
Proj_PS_WGWFr_2015		withdrawals, fresh, in gallons per day
,	Number	2015 Block-level Public Supply, groundwater
Proj_PS_WGWSa_2015		withdrawals, saline, in gallons per day
Proj_PS_WGWTo_201	Number	2015 Block-level Public Supply, groundwater
5		withdrawals, total, in gallons per day
	Number	2015 Block-level Public Supply, surface-water
Proj_PS_WSWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Public Supply, surface-water
Proj_PS_WSWSa_2015		withdrawals, saline, in gallons per day
	Number	2015 Block-level Public Supply, surface-water
Proj_PS_WSWTo_2015		withdrawals, total, in gallons per day
	Number	2015 Block-level Public Supply, total withdrawals,
Proj_PS_WFrTo_2015		fresh, in gallons per day
	Number	2015 Block-level Public Supply, total withdrawals,
Proj_PS_WSaTo_2015		saline, in gallons per day
	Number	2015 Block-level Public Supply, total withdrawals,
Proj_PS_Wtotl_2015		total (fresh+saline), in gallons per day
Proj_DO_WGWFr_201	Number	2015 Block-level Domestic, self-supplied
5		groundwater withdrawals, fresh, in gallons per day
	Number	2015 Block-level Domestic, self-supplied surface-
Proj_DO_WSWFr_2015		water withdrawals, fresh, in gallons per day
	Number	2015 Block-level Domestic, total self-supplied
Proj_DO_WFrTo_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Domestic, deliveries from Public
Proj_DO_PSDel_2015		Supply, in gallons per day
	Number	2015 Block-level Domestic, publicly supplied per
Proj_DO_TOTAL_2015		capita use, in gallons/day [DO-PSDel/PS-TOPop]

Field	Туре	Description
	Number	2015 Block-level Industrial, self-supplied
Proj_IN_WGWFr_2015		groundwater withdrawals, fresh, in gallons per day
,= = =	Number	2015 Block-level Industrial, self-supplied
Proj_IN_WGWSa_2015		groundwater withdrawals, saline, in gallons per day
,	Number	2015 Block-level Industrial, self-supplied
Proj_IN_WGWTo_2015		groundwater withdrawals, total, in gallons per day
,= = =	Number	2015 Block-level Industrial, self-supplied surface-
Proj_IN_WSWFr_2015		water withdrawals, fresh, in gallons per day
,	Number	2015 Block-level Industrial, self-supplied surface-
Proj_IN_WSWSa_2015		water withdrawals, saline, in gallons per day
	Number	2015 Block-level Industrial, self-supplied surface-
Proj_IN_WSWTo_2015		water withdrawals, total, in gallons per day
	Number	2015 Block-level Industrial, self-supplied total
Proj_IN_WFrTo_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Industrial, self-supplied total
Proj_IN_WSaTo_2015		withdrawals, saline, in gallons per day
	Number	2015 Block-level Industrial, self-supplied total
Proj_IN_Wtotl_2015		withdrawals, total (fresh+saline), in gallons per day
	Number	2015 Block-level Irrigation, groundwater
Proj_IR_WGWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Irrigation, surface-water
Proj_IR_WSWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Irrigation, total withdrawals,
Proj_IR_WFrTo_2015		fresh, in gallons per day
	Number	2015 Block-level Irrigation-Crop, groundwater
Proj_IC_WGWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Irrigation-Crop, surface-water
Proj_IC_WSWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Irrigation-Crop, total withdrawals,
Proj_IC_WFrTo_2015		fresh, in gallons per day
	Number	2015 Block-level Irrigation-Golf, groundwater
Proj_IG_WGWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Irrigation-Golf, surface-water
Proj_IG_WSWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Irrigation-Golf, total withdrawals,
Proj_IG_WFrTo_2015		fresh, in gallons per day
	Number	2015 Block-level Livestock, groundwater
Proj_LI_WGWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Livestock, surface-water
Proj_LI_WSWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Livestock, total withdrawals,
Proj_LI_WFrTo_2015		fresh, in gallons per day
Proj_AQ_WGWFr_201	Number	2015 Block-level Aquaculture, groundwater
5		withdrawals, fresh, in gallons per day

Field	Туре	Description
Proj_AQ_WGWSa_201	Number	2015 Block-level Aquaculture, groundwater
5		withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_201	Number	2015 Block-level Aquaculture, groundwater
5	1 tunio or	withdrawals, total, in gallons per day
	Number	2015 Block-level Aquaculture, surface-water
Proj_AQ_WSWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Aquaculture, surface-water
Proj_AQ_WSWSa_2015		withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_201	Number	2015 Block-level Aquaculture, surface-water
5		withdrawals, total, in gallons per day
	Number	2015 Block-level Aquaculture, total withdrawals,
Proj_AQ_WFrTo_2015		fresh, in gallons per day
,	Number	2015 Block-level Aquaculture, total withdrawals,
Proj_AQ_WSaTo_2015		saline, in gallons per day
, <u> </u>	Number	2015 Block-level Aquaculture, total withdrawals,
Proj_AQ_WTotl_2015		total (fresh+saline), in gallons per day
	Number	2015 Block-level Mining, groundwater
Proj_MI_WGWFr_2015		withdrawals, fresh, in gallons per day
,= = =	Number	2015 Block-level Mining, groundwater
Proj_MI_WGWSa_2015		withdrawals, saline, in gallons per day
Proj_MI_WGWTo_201	Number	2015 Block-level Mining, groundwater
5		withdrawals, total, in gallons per day
	Number	2015 Block-level Mining, surface-water
Proj_MI_WSWFr_2015		withdrawals, fresh, in gallons per day
,	Number	2015 Block-level Mining, surface-water
Proj_MI_WSWSa_2015		withdrawals, saline, in gallons per day
	Number	2015 Block-level Mining, surface-water
Proj_MI_WSWTo_2015		withdrawals, total, in gallons per day
	Number	2015 Block-level Mining, total withdrawals, fresh,
Proj_MI_WFrTo_2015		in gallons per day
	Number	2015 Block-level Mining, total withdrawals, saline,
Proj_MI_WSaTo_2015		in gallons per day
	Number	2015 Block-level Mining, total withdrawals, total
Proj_MI_Wtotl_2015		(fresh+saline), in gallons per day
	Number	2015 Block-level Thermoelectric, groundwater
Proj_PT_WGWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Thermoelectric, groundwater
Proj_PT_WGWSa_2015		withdrawals, saline, in gallons per day
Proj_PT_WGWTo_201	Number	2015 Block-level Thermoelectric, groundwater
5		withdrawals, total, in gallons per day
	Number	2015 Block-level Thermoelectric, surface-water
Proj_PT_WSWFr_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Thermoelectric, surface-water
Proj_PT_WSWSa_2015		withdrawals, saline, in gallons per day

Field	Туре	Description
	Number	2015 Block-level Thermoelectric, surface-water
Proj_PT_WSWTo_2015		withdrawals, total, in gallons per day
	Number	2015 Block-level Thermoelectric, total withdrawals,
Proj_PT_WFrTo_2015		fresh, in gallons per day
	Number	2015 Block-level Thermoelectric, total withdrawals,
Proj_PT_WSaTo_2015		saline, in gallons per day
	Number	2015 Block-level Thermoelectric, total withdrawals,
Proj_PT_Wtotl_2015		total (fresh+saline), in gallons per day
	Number	2015 Block-level Thermoelectric, power generated,
Proj_PT_Power_2015		in gigawatt-hours
Proj_PO_WGWFr_201	Number	2015 Block-level Thermoelectric once-through,
5		groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_201	Number	2015 Block-level Thermoelectric once-through,
5		groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_201	Number	2015 Block-level Thermoelectric once-through,
5		groundwater withdrawals, total, in gallons per day
	Number	2015 Block-level Thermoelectric once-through,
Proj_PO_WSWFr_2015		surface-water withdrawals, fresh, in gallons per day
	Number	2015 Block-level Thermoelectric once-through,
		surface-water withdrawals, saline, in gallons per
Proj_PO_WSWSa_2015		day
Proj_PO_WSWTo_201	Number	2015 Block-level Thermoelectric once-through,
5		surface-water withdrawals, total, in gallons per day
	Number	2015 Block-level Thermoelectric once-through,
Proj_PO_WFrTo_2015		total withdrawals, fresh, in gallons per day
	Number	2015 Block-level Thermoelectric once-through,
Proj_PO_WSaTo_2015		total withdrawals, saline, in gallons per day
	Number	2015 Block-level Thermoelectric once-through,
Proj_PO_WTotl_2015		total withdrawals, total, in gallons per day
	Number	2015 Block-level Thermoelectric once-through,
Proj_PO_Power_2015		power generated, in gigawatt-hours
	Number	2015 Block-level Thermoelectric recirculation,
Proj_PC_WGWFr_2015		groundwater withdrawals, fresh, in gallons per day
	Number	2015 Block-level Thermoelectric recirculation,
Proj_PC_WGWSa_2015		groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_201	Number	2015 Block-level Thermoelectric recirculation,
5		groundwater withdrawals, total, in gallons per day
	Number	2015 Block-level Thermoelectric recirculation,
Proj_PC_WSWFr_2015		surface-water withdrawals, fresh, in gallons per day
	Number	2015 Block-level Thermoelectric recirculation,
		surface-water withdrawals, saline, in gallons per
Proj_PC_WSWSa_2015		day
	Number	2015 Block-level Thermoelectric recirculation,
Proj_PC_WSWTo_2015		surface-water withdrawals, total, in gallons per day

Field	Туре	Description
	Number	2015 Block-level Thermoelectric recirculation, total
Proj_PC_WFrTo_2015		withdrawals, fresh, in gallons per day
	Number	2015 Block-level Thermoelectric recirculation, total
Proj_PC_WSaTo_2015	1100111001	withdrawals, saline, in gallons per day
	Number	2015 Block-level Thermoelectric recirculation, total
Proj_PC_WTotl_2015		withdrawals, total (fresh+saline), in gallons per day
	Number	2015 Block-level Thermoelectric recirculation,
Proj_PC_Power_2015		power generated, in gigawatt-hours
Proj_TO_WGWFr_201	Number	2015 Block-level Total groundwater withdrawals,
5		fresh, in gallons per day
Proj_TO_WGWSa_201	Number	2015 Block-level Total groundwater withdrawals,
5		saline, in gallons per day
Proj_TO_WGWTo_201	Number	2015 Block-level Total groundwater withdrawals,
5		total (fresh+saline), in gallons per day
	Number	2015 Block-level Total surface-water withdrawals,
Proj_TO_WSWFr_2015		fresh, in gallons per day
,= = =	Number	2015 Block-level Total surface-water withdrawals,
Proj_TO_WSWSa_2015		saline, in gallons per day
Proj_TO_WSWTo_201	Number	2015 Block-level Total surface-water withdrawals,
5		total (fresh+saline), in gallons per day
	Number	2015 Block-level Total withdrawals, fresh, in
Proj_TO_WFrTo_2015		gallons per day
	Number	2015 Block-level Total withdrawals, saline, in
Proj_TO_WSaTo_2015		gallons per day
	Number	2015 Block-level Total withdrawals, total
Proj_TO_WTotl_2015		(fresh+saline), in gallons per day
	Number	2020 Block-level Public Supply, groundwater
Proj_PS_WGWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Public Supply, groundwater
Proj_PS_WGWSa_2020		withdrawals, saline, in gallons per day
Proj_PS_WGWTo_202	Number	2020 Block-level Public Supply, groundwater
0		withdrawals, total, in gallons per day
	Number	2020 Block-level Public Supply, surface-water
Proj_PS_WSWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Public Supply, surface-water
Proj_PS_WSWSa_2020		withdrawals, saline, in gallons per day
	Number	2020 Block-level Public Supply, surface-water
Proj_PS_WSWTo_2020		withdrawals, total, in gallons per day
	Number	2020 Block-level Public Supply, total withdrawals,
Proj_PS_WFrTo_2020		fresh, in gallons per day
	Number	2020 Block-level Public Supply, total withdrawals,
Proj_PS_WSaTo_2020		saline, in gallons per day
	Number	2020 Block-level Public Supply, total withdrawals,
Proj_PS_Wtotl_2020		total (fresh+saline), in gallons per day

Field	Туре	Description
Proj_DO_WGWFr_202	Number	2020 Block-level Domestic, self-supplied
0		groundwater withdrawals, fresh, in gallons per day
	Number	2020 Block-level Domestic, self-supplied surface-
Proj_DO_WSWFr_2020		water withdrawals, fresh, in gallons per day
	Number	2020 Block-level Domestic, total self-supplied
Proj_DO_WFrTo_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Domestic, deliveries from Public
Proj_DO_PSDel_2020		Supply, in gallons per day
	Number	2020 Block-level Domestic, publicly supplied per
Proj_DO_TOTAL_2020		capita use, in gallons/day [DO-PSDel/PS-TOPop]
	Number	2020 Block-level Industrial, self-supplied
Proj_IN_WGWFr_2020		groundwater withdrawals, fresh, in gallons per day
	Number	2020 Block-level Industrial, self-supplied
Proj_IN_WGWSa_2020		groundwater withdrawals, saline, in gallons per day
	Number	2020 Block-level Industrial, self-supplied
Proj_IN_WGWTo_2020		groundwater withdrawals, total, in gallons per day
	Number	2020 Block-level Industrial, self-supplied surface-
Proj_IN_WSWFr_2020		water withdrawals, fresh, in gallons per day
	Number	2020 Block-level Industrial, self-supplied surface-
Proj_IN_WSWSa_2020		water withdrawals, saline, in gallons per day
	Number	2020 Block-level Industrial, self-supplied surface-
Proj_IN_WSWTo_2020		water withdrawals, total, in gallons per day
	Number	2020 Block-level Industrial, self-supplied total
Proj_IN_WFrTo_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Industrial, self-supplied total
Proj_IN_WSaTo_2020		withdrawals, saline, in gallons per day
	Number	2020 Block-level Industrial, self-supplied total
Proj_IN_Wtotl_2020		withdrawals, total (fresh+saline), in gallons per day
	Number	2020 Block-level Irrigation, groundwater
Proj_IR_WGWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Irrigation, surface-water
Proj_IR_WSWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Irrigation, total withdrawals,
Proj_IR_WFrTo_2020		fresh, in gallons per day
	Number	2020 Block-level Irrigation-Crop, groundwater
Proj_IC_WGWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Irrigation-Crop, surface-water
Proj_IC_WSWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Irrigation-Crop, total withdrawals,
Proj_IC_WFrTo_2020		fresh, in gallons per day
	Number	2020 Block-level Irrigation-Golf, groundwater
Proj_IG_WGWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Irrigation-Golf, surface-water
Proj_IG_WSWFr_2020		withdrawals, fresh, in gallons per day

Field	Туре	Description
	Number	2020 Block-level Irrigation-Golf, total withdrawals,
Proj_IG_WFrTo_2020		fresh, in gallons per day
,	Number	2020 Block-level Livestock, groundwater
Proj_LI_WGWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Livestock, surface-water
Proj_LI_WSWFr_2020		withdrawals, fresh, in gallons per day
,= = =	Number	2020 Block-level Livestock, total withdrawals,
Proj_LI_WFrTo_2020		fresh, in gallons per day
Proj_AQ_WGWFr_202	Number	2020 Block-level Aquaculture, groundwater
0		withdrawals, fresh, in gallons per day
Proj_AQ_WGWSa_202	Number	2020 Block-level Aquaculture, groundwater
0		withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_202	Number	2020 Block-level Aquaculture, groundwater
0		withdrawals, total, in gallons per day
	Number	2020 Block-level Aquaculture, surface-water
Proj_AQ_WSWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Aquaculture, surface-water
Proj_AQ_WSWSa_2020		withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_202	Number	2020 Block-level Aquaculture, surface-water
0		withdrawals, total, in gallons per day
	Number	2020 Block-level Aquaculture, total withdrawals,
Proj_AQ_WFrTo_2020		fresh, in gallons per day
	Number	2020 Block-level Aquaculture, total withdrawals,
Proj_AQ_WSaTo_2020		saline, in gallons per day
	Number	2020 Block-level Aquaculture, total withdrawals,
Proj_AQ_WTotl_2020		total (fresh+saline), in gallons per day
	Number	2020 Block-level Mining, groundwater
Proj_MI_WGWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Mining, groundwater
Proj_MI_WGWSa_2020		withdrawals, saline, in gallons per day
Proj_MI_WGWTo_202	Number	2020 Block-level Mining, groundwater
0		withdrawals, total, in gallons per day
	Number	2020 Block-level Mining, surface-water
Proj_MI_WSWFr_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Mining, surface-water
Proj_MI_WSWSa_2020		withdrawals, saline, in gallons per day
	Number	2020 Block-level Mining, surface-water
Proj_MI_WSWTo_2020		withdrawals, total, in gallons per day
	Number	2020 Block-level Mining, total withdrawals, fresh,
Proj_MI_WFrTo_2020		in gallons per day
	Number	2020 Block-level Mining, total withdrawals, saline,
Proj_MI_WSaTo_2020		in gallons per day
	Number	2020 Block-level Mining, total withdrawals, total
Proj_MI_Wtotl_2020		(fresh+saline), in gallons per day

Field	Туре	Description
	Number	2020 Block-level Thermoelectric, groundwater
Proj_PT_WGWFr_2020		withdrawals, fresh, in gallons per day
, <u> </u>	Number	2020 Block-level Thermoelectric, groundwater
Proj_PT_WGWSa_2020		withdrawals, saline, in gallons per day
Proj_PT_WGWTo_202	Number	2020 Block-level Thermoelectric, groundwater
0		withdrawals, total, in gallons per day
	Number	2020 Block-level Thermoelectric, surface-water
Proj_PT_WSWFr_2020		withdrawals, fresh, in gallons per day
,	Number	2020 Block-level Thermoelectric, surface-water
Proj_PT_WSWSa_2020		withdrawals, saline, in gallons per day
	Number	2020 Block-level Thermoelectric, surface-water
Proj_PT_WSWTo_2020		withdrawals, total, in gallons per day
	Number	2020 Block-level Thermoelectric, total withdrawals,
Proj_PT_WFrTo_2020		fresh, in gallons per day
	Number	2020 Block-level Thermoelectric, total withdrawals,
Proj_PT_WSaTo_2020		saline, in gallons per day
	Number	2020 Block-level Thermoelectric, total withdrawals,
Proj_PT_Wtotl_2020		total (fresh+saline), in gallons per day
	Number	2020 Block-level Thermoelectric, power generated,
Proj_PT_Power_2020		in gigawatt-hours
Proj_PO_WGWFr_202	Number	2020 Block-level Thermoelectric once-through,
0		groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_202	Number	2020 Block-level Thermoelectric once-through,
0		groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_202	Number	2020 Block-level Thermoelectric once-through,
0		groundwater withdrawals, total, in gallons per day
	Number	2020 Block-level Thermoelectric once-through,
Proj_PO_WSWFr_2020		surface-water withdrawals, fresh, in gallons per day
	Number	2020 Block-level Thermoelectric once-through,
		surface-water withdrawals, saline, in gallons per
Proj_PO_WSWSa_2020		day
Proj_PO_WSWTo_202	Number	2020 Block-level Thermoelectric once-through,
0		surface-water withdrawals, total, in gallons per day
D . DO	Number	2020 Block-level Thermoelectric once-through,
Proj_PO_WFrTo_2020	** *	total withdrawals, fresh, in gallons per day
D . DO 1110 TO 2000	Number	2020 Block-level Thermoelectric once-through,
Proj_PO_WSaTo_2020	** *	total withdrawals, saline, in gallons per day
D : DO 1477 :1 0000	Number	2020 Block-level Thermoelectric once-through,
Proj_PO_WTotl_2020	AT 1	total withdrawals, total, in gallons per day
D ' DO D - 2000	Number	2020 Block-level Thermoelectric once-through,
Proj_PO_Power_2020	AT 1	power generated, in gigawatt-hours
Dest DC MCME 2000	Number	2020 Block-level Thermoelectric recirculation,
Proj_PC_WGWFr_2020		groundwater withdrawals, fresh, in gallons per day

Field	Туре	Description
	Number	2020 Block-level Thermoelectric recirculation,
Proj_PC_WGWSa_2020		groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_202	Number	2020 Block-level Thermoelectric recirculation,
0		groundwater withdrawals, total, in gallons per day
	Number	2020 Block-level Thermoelectric recirculation,
Proj_PC_WSWFr_2020		surface-water withdrawals, fresh, in gallons per day
, -	Number	2020 Block-level Thermoelectric recirculation,
		surface-water withdrawals, saline, in gallons per
Proj_PC_WSWSa_2020		day
	Number	2020 Block-level Thermoelectric recirculation,
Proj_PC_WSWTo_2020		surface-water withdrawals, total, in gallons per day
	Number	2020 Block-level Thermoelectric recirculation, total
Proj_PC_WFrTo_2020		withdrawals, fresh, in gallons per day
	Number	2020 Block-level Thermoelectric recirculation, total
Proj_PC_WSaTo_2020		withdrawals, saline, in gallons per day
	Number	2020 Block-level Thermoelectric recirculation, total
Proj_PC_WTotl_2020		withdrawals, total (fresh+saline), in gallons per day
	Number	2020 Block-level Thermoelectric recirculation,
Proj_PC_Power_2020		power generated, in gigawatt-hours
Proj_TO_WGWFr_202	Number	2020 Block-level Total groundwater withdrawals,
0		fresh, in gallons per day
Proj_TO_WGWSa_202	Number	2020 Block-level Total groundwater withdrawals,
0		saline, in gallons per day
Proj_TO_WGWTo_202	Number	2020 Block-level Total groundwater withdrawals,
0		total (fresh+saline), in gallons per day
	Number	2020 Block-level Total surface-water withdrawals,
Proj_TO_WSWFr_2020		fresh, in gallons per day
	Number	2020 Block-level Total surface-water withdrawals,
Proj_TO_WSWSa_2020		saline, in gallons per day
Proj_TO_WSWTo_202	Number	2020 Block-level Total surface-water withdrawals,
0		total (fresh+saline), in gallons per day
	Number	2020 Block-level Total withdrawals, fresh, in
Proj_TO_WFrTo_2020		gallons per day
	Number	2020 Block-level Total withdrawals, saline, in
Proj_TO_WSaTo_2020		gallons per day
	Number	2020 Block-level Total withdrawals, total
Proj_TO_WTotl_2020		(fresh+saline), in gallons per day
	Number	2025 Block-level Public Supply, groundwater
Proj_PS_WGWFr_2025		withdrawals, fresh, in gallons per day
	Number	2025 Block-level Public Supply, groundwater
Proj_PS_WGWSa_2025		withdrawals, saline, in gallons per day
Proj_PS_WGWTo_202	Number	2025 Block-level Public Supply, groundwater
5		withdrawals, total, in gallons per day

Field	Туре	Description
	Number	2025 Block-level Public Supply, surface-water
Proj_PS_WSWFr_2025		withdrawals, fresh, in gallons per day
,= = =	Number	2025 Block-level Public Supply, surface-water
Proj_PS_WSWSa_2025		withdrawals, saline, in gallons per day
	Number	2025 Block-level Public Supply, surface-water
Proj_PS_WSWTo_2025		withdrawals, total, in gallons per day
,= = =	Number	2025 Block-level Public Supply, total withdrawals,
Proj_PS_WFrTo_2025		fresh, in gallons per day
	Number	2025 Block-level Public Supply, total withdrawals,
Proj_PS_WSaTo_2025		saline, in gallons per day
	Number	2025 Block-level Public Supply, total withdrawals,
Proj_PS_Wtotl_2025		total (fresh+saline), in gallons per day
Proj_DO_WGWFr_202	Number	2025 Block-level Domestic, self-supplied
5		groundwater withdrawals, fresh, in gallons per day
	Number	2025 Block-level Domestic, self-supplied surface-
Proj_DO_WSWFr_2025		water withdrawals, fresh, in gallons per day
	Number	2025 Block-level Domestic, total self-supplied
Proj_DO_WFrTo_2025		withdrawals, fresh, in gallons per day
	Number	2025 Block-level Domestic, deliveries from Public
Proj_DO_PSDel_2025		Supply, in gallons per day
	Number	2025 Block-level Domestic, publicly supplied per
Proj_DO_TOTAL_2025		capita use, in gallons/day [DO-PSDel/PS-TOPop]
	Number	2025 Block-level Industrial, self-supplied
Proj_IN_WGWFr_2025		groundwater withdrawals, fresh, in gallons per day
	Number	2025 Block-level Industrial, self-supplied
Proj_IN_WGWSa_2025		groundwater withdrawals, saline, in gallons per day
	Number	2025 Block-level Industrial, self-supplied
Proj_IN_WGWTo_2025		groundwater withdrawals, total, in gallons per day
	Number	2025 Block-level Industrial, self-supplied surface-
Proj_IN_WSWFr_2025		water withdrawals, fresh, in gallons per day
	Number	2025 Block-level Industrial, self-supplied surface-
Proj_IN_WSWSa_2025		water withdrawals, saline, in gallons per day
	Number	2025 Block-level Industrial, self-supplied surface-
Proj_IN_WSWTo_2025		water withdrawals, total, in gallons per day
	Number	2025 Block-level Industrial, self-supplied total
Proj_IN_WFrTo_2025		withdrawals, fresh, in gallons per day
D	Number	2025 Block-level Industrial, self-supplied total
Proj_IN_WSaTo_2025		withdrawals, saline, in gallons per day
D	Number	2025 Block-level Industrial, self-supplied total
Proj_IN_Wtotl_2025	** *	withdrawals, total (fresh+saline), in gallons per day
D 11D 11101177 2007	Number	2025 Block-level Irrigation, groundwater
Proj_IR_WGWFr_2025		withdrawals, fresh, in gallons per day
D . ID III 2000	Number	2025 Block-level Irrigation, surface-water
Proj_IR_WSWFr_2025		withdrawals, fresh, in gallons per day

Field	Туре	Description
	Number	2025 Block-level Irrigation, total withdrawals,
Proj_IR_WFrTo_2025		fresh, in gallons per day
	Number	2025 Block-level Irrigation-Crop, groundwater
Proj_IC_WGWFr_2025	1 tunio or	withdrawals, fresh, in gallons per day
	Number	2025 Block-level Irrigation-Crop, surface-water
Proj_IC_WSWFr_2025		withdrawals, fresh, in gallons per day
	Number	2025 Block-level Irrigation-Crop, total withdrawals,
Proj_IC_WFrTo_2025		fresh, in gallons per day
_	Number	2025 Block-level Irrigation-Golf, groundwater
Proj_IG_WGWFr_2025		withdrawals, fresh, in gallons per day
) -	Number	2025 Block-level Irrigation-Golf, surface-water
Proj_IG_WSWFr_2025		withdrawals, fresh, in gallons per day
,= = =	Number	2025 Block-level Irrigation-Golf, total withdrawals,
Proj_IG_WFrTo_2025		fresh, in gallons per day
-	Number	2025 Block-level Livestock, groundwater
Proj_LI_WGWFr_2025		withdrawals, fresh, in gallons per day
	Number	2025 Block-level Livestock, surface-water
Proj_LI_WSWFr_2025		withdrawals, fresh, in gallons per day
	Number	2025 Block-level Livestock, total withdrawals,
Proj_LI_WFrTo_2025		fresh, in gallons per day
Proj_AQ_WGWFr_202	Number	2025 Block-level Aquaculture, groundwater
5		withdrawals, fresh, in gallons per day
Proj_AQ_WGWSa_202	Number	2025 Block-level Aquaculture, groundwater
5		withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_202	Number	2025 Block-level Aquaculture, groundwater
5		withdrawals, total, in gallons per day
	Number	2025 Block-level Aquaculture, surface-water
Proj_AQ_WSWFr_2025		withdrawals, fresh, in gallons per day
	Number	2025 Block-level Aquaculture, surface-water
Proj_AQ_WSWSa_2025		withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_202	Number	2025 Block-level Aquaculture, surface-water
5		withdrawals, total, in gallons per day
	Number	2025 Block-level Aquaculture, total withdrawals,
Proj_AQ_WFrTo_2025		fresh, in gallons per day
	Number	2025 Block-level Aquaculture, total withdrawals,
Proj_AQ_WSaTo_2025		saline, in gallons per day
	Number	2025 Block-level Aquaculture, total withdrawals,
Proj_AQ_WTotl_2025		total (fresh+saline), in gallons per day
	Number	2025 Block-level Mining, groundwater
Proj_MI_WGWFr_2025		withdrawals, fresh, in gallons per day
	Number	2025 Block-level Mining, groundwater
Proj_MI_WGWSa_2025		withdrawals, saline, in gallons per day
Proj_MI_WGWTo_202	Number	2025 Block-level Mining, groundwater
5		withdrawals, total, in gallons per day

Field	Туре	Description
	Number	2025 Block-level Mining, surface-water
Proj_MI_WSWFr_2025		withdrawals, fresh, in gallons per day
, <u> </u>	Number	2025 Block-level Mining, surface-water
Proj_MI_WSWSa_2025		withdrawals, saline, in gallons per day
, <u> </u>	Number	2025 Block-level Mining, surface-water
Proj_MI_WSWTo_2025		withdrawals, total, in gallons per day
7	Number	2025 Block-level Mining, total withdrawals, fresh,
Proj_MI_WFrTo_2025		in gallons per day
, <u> </u>	Number	2025 Block-level Mining, total withdrawals, saline,
Proj_MI_WSaTo_2025		in gallons per day
, -	Number	2025 Block-level Mining, total withdrawals, total
Proj_MI_Wtotl_2025		(fresh+saline), in gallons per day
	Number	2025 Block-level Thermoelectric, groundwater
Proj_PT_WGWFr_2025		withdrawals, fresh, in gallons per day
,	Number	2025 Block-level Thermoelectric, groundwater
Proj_PT_WGWSa_2025		withdrawals, saline, in gallons per day
Proj_PT_WGWTo_202	Number	2025 Block-level Thermoelectric, groundwater
5		withdrawals, total, in gallons per day
	Number	2025 Block-level Thermoelectric, surface-water
Proj_PT_WSWFr_2025		withdrawals, fresh, in gallons per day
	Number	2025 Block-level Thermoelectric, surface-water
Proj_PT_WSWSa_2025		withdrawals, saline, in gallons per day
	Number	2025 Block-level Thermoelectric, surface-water
Proj_PT_WSWTo_2025		withdrawals, total, in gallons per day
	Number	2025 Block-level Thermoelectric, total withdrawals,
Proj_PT_WFrTo_2025		fresh, in gallons per day
	Number	2025 Block-level Thermoelectric, total withdrawals,
Proj_PT_WSaTo_2025		saline, in gallons per day
	Number	2025 Block-level Thermoelectric, total withdrawals,
Proj_PT_Wtotl_2025		total (fresh+saline), in gallons per day
	Number	2025 Block-level Thermoelectric, power generated,
Proj_PT_Power_2025		in gigawatt-hours
Proj_PO_WGWFr_202	Number	2025 Block-level Thermoelectric once-through,
5		groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_202	Number	2025 Block-level Thermoelectric once-through,
5		groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_202	Number	2025 Block-level Thermoelectric once-through,
5		groundwater withdrawals, total, in gallons per day
	Number	2025 Block-level Thermoelectric once-through,
Proj_PO_WSWFr_2025		surface-water withdrawals, fresh, in gallons per day
	Number	2025 Block-level Thermoelectric once-through,
		surface-water withdrawals, saline, in gallons per
Proj_PO_WSWSa_2025		day

Field	Туре	Description
Proj_PO_WSWTo_202	Number	2025 Block-level Thermoelectric once-through,
5		surface-water withdrawals, total, in gallons per day
	Number	2025 Block-level Thermoelectric once-through,
Proj_PO_WFrTo_2025		total withdrawals, fresh, in gallons per day
,= = =	Number	2025 Block-level Thermoelectric once-through,
Proj_PO_WSaTo_2025		total withdrawals, saline, in gallons per day
,	Number	2025 Block-level Thermoelectric once-through,
Proj_PO_WTotl_2025		total withdrawals, total, in gallons per day
,= = =	Number	2025 Block-level Thermoelectric once-through,
Proj_PO_Power_2025		power generated, in gigawatt-hours
	Number	2025 Block-level Thermoelectric recirculation,
Proj_PC_WGWFr_2025		groundwater withdrawals, fresh, in gallons per day
, <u> </u>	Number	2025 Block-level Thermoelectric recirculation,
Proj_PC_WGWSa_2025		groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_202	Number	2025 Block-level Thermoelectric recirculation,
5		groundwater withdrawals, total, in gallons per day
	Number	2025 Block-level Thermoelectric recirculation,
Proj_PC_WSWFr_2025		surface-water withdrawals, fresh, in gallons per day
,	Number	2025 Block-level Thermoelectric recirculation,
		surface-water withdrawals, saline, in gallons per
Proj_PC_WSWSa_2025		day
	Number	2025 Block-level Thermoelectric recirculation,
Proj_PC_WSWTo_2025		surface-water withdrawals, total, in gallons per day
	Number	2025 Block-level Thermoelectric recirculation, total
Proj_PC_WFrTo_2025		withdrawals, fresh, in gallons per day
	Number	2025 Block-level Thermoelectric recirculation, total
Proj_PC_WSaTo_2025		withdrawals, saline, in gallons per day
	Number	2025 Block-level Thermoelectric recirculation, total
Proj_PC_WTotl_2025		withdrawals, total (fresh+saline), in gallons per day
	Number	2025 Block-level Thermoelectric recirculation,
Proj_PC_Power_2025		power generated, in gigawatt-hours
Proj_TO_WGWFr_202	Number	2025 Block-level Total groundwater withdrawals,
5		fresh, in gallons per day
Proj_TO_WGWSa_202	Number	2025 Block-level Total groundwater withdrawals,
5		saline, in gallons per day
Proj_TO_WGWTo_202	Number	2025 Block-level Total groundwater withdrawals,
5		total (fresh+saline), in gallons per day
	Number	2025 Block-level Total surface-water withdrawals,
Proj_TO_WSWFr_2025		fresh, in gallons per day
	Number	2025 Block-level Total surface-water withdrawals,
Proj_TO_WSWSa_2025		saline, in gallons per day
Proj_TO_WSWTo_202	Number	2025 Block-level Total surface-water withdrawals,
5		total (fresh+saline), in gallons per day

Field	Туре	Description
	Number	2025 Block-level Total withdrawals, fresh, in
Proj_TO_WFrTo_2025		gallons per day
,= = =	Number	2025 Block-level Total withdrawals, saline, in
Proj_TO_WSaTo_2025		gallons per day
,= = =	Number	2025 Block-level Total withdrawals, total
Proj_TO_WTotl_2025		(fresh+saline), in gallons per day
,	Number	2030 Block-level Public Supply, groundwater
Proj_PS_WGWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Public Supply, groundwater
Proj_PS_WGWSa_2030		withdrawals, saline, in gallons per day
Proj_PS_WGWTo_203	Number	2030 Block-level Public Supply, groundwater
0		withdrawals, total, in gallons per day
	Number	2030 Block-level Public Supply, surface-water
Proj_PS_WSWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Public Supply, surface-water
Proj_PS_WSWSa_2030		withdrawals, saline, in gallons per day
	Number	2030 Block-level Public Supply, surface-water
Proj_PS_WSWTo_2030		withdrawals, total, in gallons per day
	Number	2030 Block-level Public Supply, total withdrawals,
Proj_PS_WFrTo_2030		fresh, in gallons per day
	Number	2030 Block-level Public Supply, total withdrawals,
Proj_PS_WSaTo_2030		saline, in gallons per day
	Number	2030 Block-level Public Supply, total withdrawals,
Proj_PS_Wtotl_2030		total (fresh+saline), in gallons per day
Proj_DO_WGWFr_203	Number	2030 Block-level Domestic, self-supplied
0		groundwater withdrawals, fresh, in gallons per day
	Number	2030 Block-level Domestic, self-supplied surface-
Proj_DO_WSWFr_2030		water withdrawals, fresh, in gallons per day
	Number	2030 Block-level Domestic, total self-supplied
Proj_DO_WFrTo_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Domestic, deliveries from Public
Proj_DO_PSDel_2030		Supply, in gallons per day
	Number	2030 Block-level Domestic, publicly supplied per
Proj_DO_TOTAL_2030		capita use, in gallons/day [DO-PSDel/PS-TOPop]
	Number	2030 Block-level Industrial, self-supplied
Proj_IN_WGWFr_2030		groundwater withdrawals, fresh, in gallons per day
	Number	2030 Block-level Industrial, self-supplied
Proj_IN_WGWSa_2030		groundwater withdrawals, saline, in gallons per day
	Number	2030 Block-level Industrial, self-supplied
Proj_IN_WGWTo_2030		groundwater withdrawals, total, in gallons per day
	Number	2030 Block-level Industrial, self-supplied surface-
Proj_IN_WSWFr_2030		water withdrawals, fresh, in gallons per day
	Number	2030 Block-level Industrial, self-supplied surface-
Proj_IN_WSWSa_2030		water withdrawals, saline, in gallons per day

Field	Туре	Description
	Number	2030 Block-level Industrial, self-supplied surface-
Proj_IN_WSWTo_2030		water withdrawals, total, in gallons per day
	Number	2030 Block-level Industrial, self-supplied total
Proj_IN_WFrTo_2030	110111001	withdrawals, fresh, in gallons per day
	Number	2030 Block-level Industrial, self-supplied total
Proj_IN_WSaTo_2030		withdrawals, saline, in gallons per day
	Number	2030 Block-level Industrial, self-supplied total
Proj_IN_Wtotl_2030	1101111001	withdrawals, total (fresh+saline), in gallons per day
	Number	2030 Block-level Irrigation, groundwater
Proj_IR_WGWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Irrigation, surface-water
Proj_IR_WSWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Irrigation, total withdrawals,
Proj_IR_WFrTo_2030		fresh, in gallons per day
, <u> </u>	Number	2030 Block-level Irrigation-Crop, groundwater
Proj_IC_WGWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Irrigation-Crop, surface-water
Proj_IC_WSWFr_2030		withdrawals, fresh, in gallons per day
,	Number	2030 Block-level Irrigation-Crop, total withdrawals,
Proj_IC_WFrTo_2030		fresh, in gallons per day
,= = =	Number	2030 Block-level Irrigation-Golf, groundwater
Proj_IG_WGWFr_2030		withdrawals, fresh, in gallons per day
,= = =	Number	2030 Block-level Irrigation-Golf, surface-water
Proj_IG_WSWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Irrigation-Golf, total withdrawals,
Proj_IG_WFrTo_2030		fresh, in gallons per day
	Number	2030 Block-level Livestock, groundwater
Proj_LI_WGWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Livestock, surface-water
Proj_LI_WSWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Livestock, total withdrawals,
Proj_LI_WFrTo_2030		fresh, in gallons per day
Proj_AQ_WGWFr_203	Number	2030 Block-level Aquaculture, groundwater
0		withdrawals, fresh, in gallons per day
Proj_AQ_WGWSa_203	Number	2030 Block-level Aquaculture, groundwater
0		withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_203	Number	2030 Block-level Aquaculture, groundwater
0		withdrawals, total, in gallons per day
	Number	2030 Block-level Aquaculture, surface-water
Proj_AQ_WSWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Aquaculture, surface-water
Proj_AQ_WSWSa_2030		withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_203	Number	2030 Block-level Aquaculture, surface-water
0		withdrawals, total, in gallons per day

Field	Туре	Description
	Number	2030 Block-level Aquaculture, total withdrawals,
Proj_AQ_WFrTo_2030		fresh, in gallons per day
	Number	2030 Block-level Aquaculture, total withdrawals,
Proj_AQ_WSaTo_2030		saline, in gallons per day
	Number	2030 Block-level Aquaculture, total withdrawals,
Proj_AQ_WTotl_2030		total (fresh+saline), in gallons per day
,	Number	2030 Block-level Mining, groundwater
Proj_MI_WGWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Mining, groundwater
Proj_MI_WGWSa_2030		withdrawals, saline, in gallons per day
Proj_MI_WGWTo_203	Number	2030 Block-level Mining, groundwater
0		withdrawals, total, in gallons per day
	Number	2030 Block-level Mining, surface-water
Proj_MI_WSWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Mining, surface-water
Proj_MI_WSWSa_2030		withdrawals, saline, in gallons per day
	Number	2030 Block-level Mining, surface-water
Proj_MI_WSWTo_2030		withdrawals, total, in gallons per day
	Number	2030 Block-level Mining, total withdrawals, fresh,
Proj_MI_WFrTo_2030		in gallons per day
	Number	2030 Block-level Mining, total withdrawals, saline,
Proj_MI_WSaTo_2030		in gallons per day
	Number	2030 Block-level Mining, total withdrawals, total
Proj_MI_Wtotl_2030		(fresh+saline), in gallons per day
	Number	2030 Block-level Thermoelectric, groundwater
Proj_PT_WGWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Thermoelectric, groundwater
Proj_PT_WGWSa_2030		withdrawals, saline, in gallons per day
Proj_PT_WGWTo_203	Number	2030 Block-level Thermoelectric, groundwater
0		withdrawals, total, in gallons per day
	Number	2030 Block-level Thermoelectric, surface-water
Proj_PT_WSWFr_2030		withdrawals, fresh, in gallons per day
	Number	2030 Block-level Thermoelectric, surface-water
Proj_PT_WSWSa_2030		withdrawals, saline, in gallons per day
	Number	2030 Block-level Thermoelectric, surface-water
Proj_PT_WSWTo_2030		withdrawals, total, in gallons per day
	Number	2030 Block-level Thermoelectric, total withdrawals,
Proj_PT_WFrTo_2030		fresh, in gallons per day
	Number	2030 Block-level Thermoelectric, total withdrawals,
Proj_PT_WSaTo_2030		saline, in gallons per day
	Number	2030 Block-level Thermoelectric, total withdrawals,
Proj_PT_Wtotl_2030		total (fresh+saline), in gallons per day
	Number	2030 Block-level Thermoelectric, power generated,
Proj_PT_Power_2030		in gigawatt-hours

Field	Туре	Description
Proj_PO_WGWFr_203	Number	2030 Block-level Thermoelectric once-through,
0		groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_203	Number	2030 Block-level Thermoelectric once-through,
0		groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_203	Number	2030 Block-level Thermoelectric once-through,
0		groundwater withdrawals, total, in gallons per day
	Number	2030 Block-level Thermoelectric once-through,
Proj_PO_WSWFr_2030		surface-water withdrawals, fresh, in gallons per day
	Number	2030 Block-level Thermoelectric once-through,
		surface-water withdrawals, saline, in gallons per
Proj_PO_WSWSa_2030		day
Proj_PO_WSWTo_203	Number	2030 Block-level Thermoelectric once-through,
0		surface-water withdrawals, total, in gallons per day
	Number	2030 Block-level Thermoelectric once-through,
Proj_PO_WFrTo_2030		total withdrawals, fresh, in gallons per day
	Number	2030 Block-level Thermoelectric once-through,
Proj_PO_WSaTo_2030		total withdrawals, saline, in gallons per day
	Number	2030 Block-level Thermoelectric once-through,
Proj_PO_WTotl_2030		total withdrawals, total, in gallons per day
	Number	2030 Block-level Thermoelectric once-through,
Proj_PO_Power_2030		power generated, in gigawatt-hours
	Number	2030 Block-level Thermoelectric recirculation,
Proj_PC_WGWFr_2030		groundwater withdrawals, fresh, in gallons per day
	Number	2030 Block-level Thermoelectric recirculation,
Proj_PC_WGWSa_2030		groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_203	Number	2030 Block-level Thermoelectric recirculation,
0		groundwater withdrawals, total, in gallons per day
	Number	2030 Block-level Thermoelectric recirculation,
Proj_PC_WSWFr_2030	_	surface-water withdrawals, fresh, in gallons per day
	Number	2030 Block-level Thermoelectric recirculation,
		surface-water withdrawals, saline, in gallons per
Proj_PC_WSWSa_2030		day
D I DO MICHIES COCCO	Number	2030 Block-level Thermoelectric recirculation,
Proj_PC_WSWTo_2030	** *	surface-water withdrawals, total, in gallons per day
D : DG ME E COCO	Number	2030 Block-level Thermoelectric recirculation, total
Proj_PC_WFrTo_2030	NT 1	withdrawals, fresh, in gallons per day
D : DG MIG TO GOGG	Number	2030 Block-level Thermoelectric recirculation, total
Proj_PC_WSaTo_2030	AT 1	withdrawals, saline, in gallons per day
D ' DC 1477 -1 0000	Number	2030 Block-level Thermoelectric recirculation, total
Proj_PC_WTotl_2030	AT 1	withdrawals, total (fresh+saline), in gallons per day
Dwo: DC Darrage 2020	Number	2030 Block-level Thermoelectric recirculation,
Proj_PC_Power_2030	M	power generated, in gigawatt-hours
Proj_TO_WGWFr_203	Number	2030 Block-level Total groundwater withdrawals,
0		fresh, in gallons per day

Field	Туре	Description
Proj_TO_WGWSa_203	Number	2030 Block-level Total groundwater withdrawals,
0		saline, in gallons per day
Proj_TO_WGWTo_203	Number	2030 Block-level Total groundwater withdrawals,
0		total (fresh+saline), in gallons per day
	Number	2030 Block-level Total surface-water withdrawals,
Proj_TO_WSWFr_2030		fresh, in gallons per day
,	Number	2030 Block-level Total surface-water withdrawals,
Proj_TO_WSWSa_2030		saline, in gallons per day
Proj_TO_WSWTo_203	Number	2030 Block-level Total surface-water withdrawals,
0		total (fresh+saline), in gallons per day
	Number	2030 Block-level Total withdrawals, fresh, in
Proj_TO_WFrTo_2030		gallons per day
	Number	2030 Block-level Total withdrawals, saline, in
Proj_TO_WSaTo_2030		gallons per day
	Number	2030 Block-level Total withdrawals, total
Proj_TO_WTotl_2030		(fresh+saline), in gallons per day
	Number	2035 Block-level Public Supply, groundwater
Proj_PS_WGWFr_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Public Supply, groundwater
Proj_PS_WGWSa_2035		withdrawals, saline, in gallons per day
Proj_PS_WGWTo_203	Number	2035 Block-level Public Supply, groundwater
5		withdrawals, total, in gallons per day
	Number	2035 Block-level Public Supply, surface-water
Proj_PS_WSWFr_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Public Supply, surface-water
Proj_PS_WSWSa_2035		withdrawals, saline, in gallons per day
	Number	2035 Block-level Public Supply, surface-water
Proj_PS_WSWTo_2035		withdrawals, total, in gallons per day
	Number	2035 Block-level Public Supply, total withdrawals,
Proj_PS_WFrTo_2035		fresh, in gallons per day
	Number	2035 Block-level Public Supply, total withdrawals,
Proj_PS_WSaTo_2035		saline, in gallons per day
	Number	2035 Block-level Public Supply, total withdrawals,
Proj_PS_Wtotl_2035		total (fresh+saline), in gallons per day
Proj_DO_WGWFr_203	Number	2035 Block-level Domestic, self-supplied
5		groundwater withdrawals, fresh, in gallons per day
	Number	2035 Block-level Domestic, self-supplied surface-
Proj_DO_WSWFr_2035		water withdrawals, fresh, in gallons per day
	Number	2035 Block-level Domestic, total self-supplied
Proj_DO_WFrTo_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Domestic, deliveries from Public
Proj_DO_PSDel_2035		Supply, in gallons per day
	Number	2035 Block-level Domestic, publicly supplied per
Proj_DO_TOTAL_2035		capita use, in gallons/day [DO-PSDel/PS-TOPop]

Field	Туре	Description
	Number	2035 Block-level Industrial, self-supplied
Proj_IN_WGWFr_2035		groundwater withdrawals, fresh, in gallons per day
,= = =	Number	2035 Block-level Industrial, self-supplied
Proj_IN_WGWSa_2035		groundwater withdrawals, saline, in gallons per day
,	Number	2035 Block-level Industrial, self-supplied
Proj_IN_WGWTo_2035		groundwater withdrawals, total, in gallons per day
,= = =	Number	2035 Block-level Industrial, self-supplied surface-
Proj_IN_WSWFr_2035		water withdrawals, fresh, in gallons per day
,	Number	2035 Block-level Industrial, self-supplied surface-
Proj_IN_WSWSa_2035		water withdrawals, saline, in gallons per day
	Number	2035 Block-level Industrial, self-supplied surface-
Proj_IN_WSWTo_2035		water withdrawals, total, in gallons per day
	Number	2035 Block-level Industrial, self-supplied total
Proj_IN_WFrTo_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Industrial, self-supplied total
Proj_IN_WSaTo_2035		withdrawals, saline, in gallons per day
	Number	2035 Block-level Industrial, self-supplied total
Proj_IN_Wtotl_2035		withdrawals, total (fresh+saline), in gallons per day
	Number	2035 Block-level Irrigation, groundwater
Proj_IR_WGWFr_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Irrigation, surface-water
Proj_IR_WSWFr_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Irrigation, total withdrawals,
Proj_IR_WFrTo_2035		fresh, in gallons per day
	Number	2035 Block-level Irrigation-Crop, groundwater
Proj_IC_WGWFr_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Irrigation-Crop, surface-water
Proj_IC_WSWFr_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Irrigation-Crop, total withdrawals,
Proj_IC_WFrTo_2035		fresh, in gallons per day
	Number	2035 Block-level Irrigation-Golf, groundwater
Proj_IG_WGWFr_2035		withdrawals, fresh, in gallons per day
D	Number	2035 Block-level Irrigation-Golf, surface-water
Proj_IG_WSWFr_2035		withdrawals, fresh, in gallons per day
B 110 115 5 225	Number	2035 Block-level Irrigation-Golf, total withdrawals,
Proj_IG_WFrTo_2035	3.7	fresh, in gallons per day
D	Number	2035 Block-level Livestock, groundwater
Proj_LI_WGWFr_2035	3.7	withdrawals, fresh, in gallons per day
D : 11 14/014/E 000=	Number	2035 Block-level Livestock, surface-water
Proj_LI_WSWFr_2035	AT 3	withdrawals, fresh, in gallons per day
D : 11 MP # 0005	Number	2035 Block-level Livestock, total withdrawals,
Proj_LI_WFrTo_2035	AT 3	fresh, in gallons per day
Proj_AQ_WGWFr_203	Number	2035 Block-level Aquaculture, groundwater
5		withdrawals, fresh, in gallons per day

Field	Туре	Description
Proj_AQ_WGWSa_203	Number	2035 Block-level Aquaculture, groundwater
5	1,0111001	withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_203	Number	2035 Block-level Aquaculture, groundwater
5	114111501	withdrawals, total, in gallons per day
	Number	2035 Block-level Aquaculture, surface-water
Proj_AQ_WSWFr_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Aquaculture, surface-water
Proj_AQ_WSWSa_2035	1100111001	withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_203	Number	2035 Block-level Aquaculture, surface-water
5		withdrawals, total, in gallons per day
	Number	2035 Block-level Aquaculture, total withdrawals,
Proj_AQ_WFrTo_2035		fresh, in gallons per day
	Number	2035 Block-level Aquaculture, total withdrawals,
Proj_AQ_WSaTo_2035		saline, in gallons per day
, <u> </u>	Number	2035 Block-level Aquaculture, total withdrawals,
Proj_AQ_WTotl_2035		total (fresh+saline), in gallons per day
 -	Number	2035 Block-level Mining, groundwater
Proj_MI_WGWFr_2035		withdrawals, fresh, in gallons per day
,= = =	Number	2035 Block-level Mining, groundwater
Proj_MI_WGWSa_2035		withdrawals, saline, in gallons per day
Proj_MI_WGWTo_203	Number	2035 Block-level Mining, groundwater
5		withdrawals, total, in gallons per day
	Number	2035 Block-level Mining, surface-water
Proj_MI_WSWFr_2035		withdrawals, fresh, in gallons per day
•	Number	2035 Block-level Mining, surface-water
Proj_MI_WSWSa_2035		withdrawals, saline, in gallons per day
	Number	2035 Block-level Mining, surface-water
Proj_MI_WSWTo_2035		withdrawals, total, in gallons per day
	Number	2035 Block-level Mining, total withdrawals, fresh,
Proj_MI_WFrTo_2035		in gallons per day
	Number	2035 Block-level Mining, total withdrawals, saline,
Proj_MI_WSaTo_2035		in gallons per day
	Number	2035 Block-level Mining, total withdrawals, total
Proj_MI_Wtotl_2035		(fresh+saline), in gallons per day
	Number	2035 Block-level Thermoelectric, groundwater
Proj_PT_WGWFr_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Thermoelectric, groundwater
Proj_PT_WGWSa_2035		withdrawals, saline, in gallons per day
Proj_PT_WGWTo_203	Number	2035 Block-level Thermoelectric, groundwater
5		withdrawals, total, in gallons per day
	Number	2035 Block-level Thermoelectric, surface-water
Proj_PT_WSWFr_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Thermoelectric, surface-water
Proj_PT_WSWSa_2035		withdrawals, saline, in gallons per day

Field	Туре	Description
	Number	2035 Block-level Thermoelectric, surface-water
Proj_PT_WSWTo_2035		withdrawals, total, in gallons per day
	Number	2035 Block-level Thermoelectric, total withdrawals,
Proj_PT_WFrTo_2035		fresh, in gallons per day
,= = =	Number	2035 Block-level Thermoelectric, total withdrawals,
Proj_PT_WSaTo_2035		saline, in gallons per day
,	Number	2035 Block-level Thermoelectric, total withdrawals,
Proj_PT_Wtotl_2035		total (fresh+saline), in gallons per day
	Number	2035 Block-level Thermoelectric, power generated,
Proj_PT_Power_2035		in gigawatt-hours
Proj_PO_WGWFr_203	Number	2035 Block-level Thermoelectric once-through,
5		groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_203	Number	2035 Block-level Thermoelectric once-through,
5		groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_203	Number	2035 Block-level Thermoelectric once-through,
5		groundwater withdrawals, total, in gallons per day
	Number	2035 Block-level Thermoelectric once-through,
Proj_PO_WSWFr_2035		surface-water withdrawals, fresh, in gallons per day
	Number	2035 Block-level Thermoelectric once-through,
		surface-water withdrawals, saline, in gallons per
Proj_PO_WSWSa_2035		day
Proj_PO_WSWTo_203	Number	2035 Block-level Thermoelectric once-through,
5		surface-water withdrawals, total, in gallons per day
	Number	2035 Block-level Thermoelectric once-through,
Proj_PO_WFrTo_2035		total withdrawals, fresh, in gallons per day
	Number	2035 Block-level Thermoelectric once-through,
Proj_PO_WSaTo_2035		total withdrawals, saline, in gallons per day
	Number	2035 Block-level Thermoelectric once-through,
Proj_PO_WTotl_2035		total withdrawals, total, in gallons per day
	Number	2035 Block-level Thermoelectric once-through,
Proj_PO_Power_2035		power generated, in gigawatt-hours
	Number	2035 Block-level Thermoelectric recirculation,
Proj_PC_WGWFr_2035		groundwater withdrawals, fresh, in gallons per day
	Number	2035 Block-level Thermoelectric recirculation,
Proj_PC_WGWSa_2035		groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_203	Number	2035 Block-level Thermoelectric recirculation,
5		groundwater withdrawals, total, in gallons per day
	Number	2035 Block-level Thermoelectric recirculation,
Proj_PC_WSWFr_2035		surface-water withdrawals, fresh, in gallons per day
	Number	2035 Block-level Thermoelectric recirculation,
		surface-water withdrawals, saline, in gallons per
Proj_PC_WSWSa_2035		day
	Number	2035 Block-level Thermoelectric recirculation,
Proj_PC_WSWTo_2035		surface-water withdrawals, total, in gallons per day

Field	Туре	Description
	Number	2035 Block-level Thermoelectric recirculation, total
Proj_PC_WFrTo_2035		withdrawals, fresh, in gallons per day
	Number	2035 Block-level Thermoelectric recirculation, total
Proj_PC_WSaTo_2035		withdrawals, saline, in gallons per day
	Number	2035 Block-level Thermoelectric recirculation, total
Proj_PC_WTotl_2035		withdrawals, total (fresh+saline), in gallons per day
,	Number	2035 Block-level Thermoelectric recirculation,
Proj_PC_Power_2035		power generated, in gigawatt-hours
Proj_TO_WGWFr_203	Number	2035 Block-level Total groundwater withdrawals,
5		fresh, in gallons per day
Proj_TO_WGWSa_203	Number	2035 Block-level Total groundwater withdrawals,
5		saline, in gallons per day
Proj_TO_WGWTo_203	Number	2035 Block-level Total groundwater withdrawals,
5		total (fresh+saline), in gallons per day
	Number	2035 Block-level Total surface-water withdrawals,
Proj_TO_WSWFr_2035		fresh, in gallons per day
	Number	2035 Block-level Total surface-water withdrawals,
Proj_TO_WSWSa_2035		saline, in gallons per day
Proj_TO_WSWTo_203	Number	2035 Block-level Total surface-water withdrawals,
5		total (fresh+saline), in gallons per day
	Number	2035 Block-level Total withdrawals, fresh, in
Proj_TO_WFrTo_2035		gallons per day
	Number	2035 Block-level Total withdrawals, saline, in
Proj_TO_WSaTo_2035		gallons per day
	Number	2035 Block-level Total withdrawals, total
Proj_TO_WTotl_2035		(fresh+saline), in gallons per day
	Number	2040 Block-level Public Supply, groundwater
Proj_PS_WGWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Public Supply, groundwater
Proj_PS_WGWSa_2040		withdrawals, saline, in gallons per day
Proj_PS_WGWTo_204	Number	2040 Block-level Public Supply, groundwater
0		withdrawals, total, in gallons per day
	Number	2040 Block-level Public Supply, surface-water
Proj_PS_WSWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Public Supply, surface-water
Proj_PS_WSWSa_2040		withdrawals, saline, in gallons per day
	Number	2040 Block-level Public Supply, surface-water
Proj_PS_WSWTo_2040		withdrawals, total, in gallons per day
	Number	2040 Block-level Public Supply, total withdrawals,
Proj_PS_WFrTo_2040		fresh, in gallons per day
	Number	2040 Block-level Public Supply, total withdrawals,
Proj_PS_WSaTo_2040		saline, in gallons per day
	Number	2040 Block-level Public Supply, total withdrawals,
Proj_PS_Wtotl_2040		total (fresh+saline), in gallons per day

Field	Туре	Description
Proj_DO_WGWFr_204	Number	2040 Block-level Domestic, self-supplied
0		groundwater withdrawals, fresh, in gallons per day
	Number	2040 Block-level Domestic, self-supplied surface-
Proj_DO_WSWFr_2040		water withdrawals, fresh, in gallons per day
	Number	2040 Block-level Domestic, total self-supplied
Proj_DO_WFrTo_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Domestic, deliveries from Public
Proj_DO_PSDel_2040		Supply, in gallons per day
	Number	2040 Block-level Domestic, publicly supplied per
Proj_DO_TOTAL_2040		capita use, in gallons/day [DO-PSDel/PS-TOPop]
	Number	2040 Block-level Industrial, self-supplied
Proj_IN_WGWFr_2040		groundwater withdrawals, fresh, in gallons per day
	Number	2040 Block-level Industrial, self-supplied
Proj_IN_WGWSa_2040		groundwater withdrawals, saline, in gallons per day
	Number	2040 Block-level Industrial, self-supplied
Proj_IN_WGWTo_2040		groundwater withdrawals, total, in gallons per day
	Number	2040 Block-level Industrial, self-supplied surface-
Proj_IN_WSWFr_2040		water withdrawals, fresh, in gallons per day
	Number	2040 Block-level Industrial, self-supplied surface-
Proj_IN_WSWSa_2040		water withdrawals, saline, in gallons per day
	Number	2040 Block-level Industrial, self-supplied surface-
Proj_IN_WSWTo_2040		water withdrawals, total, in gallons per day
	Number	2040 Block-level Industrial, self-supplied total
Proj_IN_WFrTo_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Industrial, self-supplied total
Proj_IN_WSaTo_2040		withdrawals, saline, in gallons per day
	Number	2040 Block-level Industrial, self-supplied total
Proj_IN_Wtotl_2040		withdrawals, total (fresh+saline), in gallons per day
	Number	2040 Block-level Irrigation, groundwater
Proj_IR_WGWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Irrigation, surface-water
Proj_IR_WSWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Irrigation, total withdrawals,
Proj_IR_WFrTo_2040		fresh, in gallons per day
	Number	2040 Block-level Irrigation-Crop, groundwater
Proj_IC_WGWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Irrigation-Crop, surface-water
Proj_IC_WSWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Irrigation-Crop, total withdrawals,
Proj_IC_WFrTo_2040		fresh, in gallons per day
	Number	2040 Block-level Irrigation-Golf, groundwater
Proj_IG_WGWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Irrigation-Golf, surface-water
Proj_IG_WSWFr_2040		withdrawals, fresh, in gallons per day

Field	Туре	Description
	Number	2040 Block-level Irrigation-Golf, total withdrawals,
Proj_IG_WFrTo_2040		fresh, in gallons per day
,= = =	Number	2040 Block-level Livestock, groundwater
Proj_LI_WGWFr_2040		withdrawals, fresh, in gallons per day
,= = =	Number	2040 Block-level Livestock, surface-water
Proj_LI_WSWFr_2040		withdrawals, fresh, in gallons per day
,= = =	Number	2040 Block-level Livestock, total withdrawals,
Proj_LI_WFrTo_2040		fresh, in gallons per day
Proj_AQ_WGWFr_204	Number	2040 Block-level Aquaculture, groundwater
0		withdrawals, fresh, in gallons per day
Proj_AQ_WGWSa_204	Number	2040 Block-level Aquaculture, groundwater
0		withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_204	Number	2040 Block-level Aquaculture, groundwater
0		withdrawals, total, in gallons per day
	Number	2040 Block-level Aquaculture, surface-water
Proj_AQ_WSWFr_2040		withdrawals, fresh, in gallons per day
, ,	Number	2040 Block-level Aquaculture, surface-water
Proj_AQ_WSWSa_2040		withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_204	Number	2040 Block-level Aquaculture, surface-water
0		withdrawals, total, in gallons per day
	Number	2040 Block-level Aquaculture, total withdrawals,
Proj_AQ_WFrTo_2040		fresh, in gallons per day
	Number	2040 Block-level Aquaculture, total withdrawals,
Proj_AQ_WSaTo_2040		saline, in gallons per day
	Number	2040 Block-level Aquaculture, total withdrawals,
Proj_AQ_WTotl_2040		total (fresh+saline), in gallons per day
	Number	2040 Block-level Mining, groundwater
Proj_MI_WGWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Mining, groundwater
Proj_MI_WGWSa_2040		withdrawals, saline, in gallons per day
Proj_MI_WGWTo_204	Number	2040 Block-level Mining, groundwater
0		withdrawals, total, in gallons per day
	Number	2040 Block-level Mining, surface-water
Proj_MI_WSWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Mining, surface-water
Proj_MI_WSWSa_2040		withdrawals, saline, in gallons per day
	Number	2040 Block-level Mining, surface-water
Proj_MI_WSWTo_2040		withdrawals, total, in gallons per day
	Number	2040 Block-level Mining, total withdrawals, fresh,
Proj_MI_WFrTo_2040		in gallons per day
	Number	2040 Block-level Mining, total withdrawals, saline,
Proj_MI_WSaTo_2040		in gallons per day
	Number	2040 Block-level Mining, total withdrawals, total
Proj_MI_Wtotl_2040		(fresh+saline), in gallons per day

Field	Туре	Description
	Number	2040 Block-level Thermoelectric, groundwater
Proj_PT_WGWFr_2040		withdrawals, fresh, in gallons per day
, <u> </u>	Number	2040 Block-level Thermoelectric, groundwater
Proj_PT_WGWSa_2040		withdrawals, saline, in gallons per day
Proj_PT_WGWTo_204	Number	2040 Block-level Thermoelectric, groundwater
0		withdrawals, total, in gallons per day
	Number	2040 Block-level Thermoelectric, surface-water
Proj_PT_WSWFr_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Thermoelectric, surface-water
Proj_PT_WSWSa_2040		withdrawals, saline, in gallons per day
	Number	2040 Block-level Thermoelectric, surface-water
Proj_PT_WSWTo_2040		withdrawals, total, in gallons per day
	Number	2040 Block-level Thermoelectric, total withdrawals,
Proj_PT_WFrTo_2040		fresh, in gallons per day
	Number	2040 Block-level Thermoelectric, total withdrawals,
Proj_PT_WSaTo_2040		saline, in gallons per day
	Number	2040 Block-level Thermoelectric, total withdrawals,
Proj_PT_Wtotl_2040		total (fresh+saline), in gallons per day
	Number	2040 Block-level Thermoelectric, power generated,
Proj_PT_Power_2040		in gigawatt-hours
Proj_PO_WGWFr_204	Number	2040 Block-level Thermoelectric once-through,
0		groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_204	Number	2040 Block-level Thermoelectric once-through,
0		groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_204	Number	2040 Block-level Thermoelectric once-through,
0		groundwater withdrawals, total, in gallons per day
	Number	2040 Block-level Thermoelectric once-through,
Proj_PO_WSWFr_2040		surface-water withdrawals, fresh, in gallons per day
	Number	2040 Block-level Thermoelectric once-through,
		surface-water withdrawals, saline, in gallons per
Proj_PO_WSWSa_2040	_	day
Proj_PO_WSWTo_204	Number	2040 Block-level Thermoelectric once-through,
0		surface-water withdrawals, total, in gallons per day
D 1 DO 11 DO 11 DO 12 DO	Number	2040 Block-level Thermoelectric once-through,
Proj_PO_WFrTo_2040	NT 1	total withdrawals, fresh, in gallons per day
D : DO 1410 T 2010	Number	2040 Block-level Thermoelectric once-through,
Proj_PO_WSaTo_2040	** *	total withdrawals, saline, in gallons per day
D ' DO 11777 (1 0040	Number	2040 Block-level Thermoelectric once-through,
Proj_PO_WTotl_2040	** *	total withdrawals, total, in gallons per day
D : DO D 2040	Number	2040 Block-level Thermoelectric once-through,
Proj_PO_Power_2040	** *	power generated, in gigawatt-hours
D : DG MGMT 0010	Number	2040 Block-level Thermoelectric recirculation,
Proj_PC_WGWFr_2040		groundwater withdrawals, fresh, in gallons per day

Field	Туре	Description
	Number	2040 Block-level Thermoelectric recirculation,
Proj_PC_WGWSa_2040		groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_204	Number	2040 Block-level Thermoelectric recirculation,
0		groundwater withdrawals, total, in gallons per day
	Number	2040 Block-level Thermoelectric recirculation,
Proj_PC_WSWFr_2040		surface-water withdrawals, fresh, in gallons per day
	Number	2040 Block-level Thermoelectric recirculation,
		surface-water withdrawals, saline, in gallons per
Proj_PC_WSWSa_2040		day
	Number	2040 Block-level Thermoelectric recirculation,
Proj_PC_WSWTo_2040		surface-water withdrawals, total, in gallons per day
	Number	2040 Block-level Thermoelectric recirculation, total
Proj_PC_WFrTo_2040		withdrawals, fresh, in gallons per day
	Number	2040 Block-level Thermoelectric recirculation, total
Proj_PC_WSaTo_2040		withdrawals, saline, in gallons per day
_	Number	2040 Block-level Thermoelectric recirculation, total
Proj_PC_WTotl_2040		withdrawals, total (fresh+saline), in gallons per day
	Number	2040 Block-level Thermoelectric recirculation,
Proj_PC_Power_2040		power generated, in gigawatt-hours
Proj_TO_WGWFr_204	Number	2040 Block-level Total groundwater withdrawals,
0		fresh, in gallons per day
Proj_TO_WGWSa_204	Number	2040 Block-level Total groundwater withdrawals,
0		saline, in gallons per day
Proj_TO_WGWTo_204	Number	2040 Block-level Total groundwater withdrawals,
0		total (fresh+saline), in gallons per day
D : TO INCINE 0040	Number	2040 Block-level Total surface-water withdrawals,
Proj_TO_WSWFr_2040	NT 1	fresh, in gallons per day
Dwo: TO MCMC- 2040	Number	2040 Block-level Total surface-water withdrawals,
Proj_TO_WSWSa_2040	M1	saline, in gallons per day
Proj_TO_WSWTo_204	Number	2040 Block-level Total surface-water withdrawals,
0	Maraclass	total (fresh+saline), in gallons per day
Droi TO MENTA 2040	Number	2040 Block-level Total withdrawals, fresh, in
Proj_TO_WFrTo_2040	Number	gallons per day
Droi TO MCaTa 2040	Number	2040 Block-level Total withdrawals, saline, in
Proj_TO_WSaTo_2040	Number	gallons per day 2040 Block-level Total withdrawals, total
Droi TO WTotl 2040	muiibei.	(fresh+saline), in gallons per day
Proj_TO_WTotl_2040		(n'esn+sanne), in ganons per day