Technical Memorandum

To: Doug Durden, Hydrologist IV, Resource Evaluation & Modeling
From: Yassert A. Gonzalez, Water Use Analyst, Water Use Planning
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 Census[1].
    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.

	2010 Census Estimate	Woods and Poole Projections					
	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

Variable Name	Definition	2010 Water Use in Millions of Gallons per day	2010 Water Use in Gallons per 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
IN-WGWFr	Industrial, self-supplied groundwater withdrawals, fresh	0.50	0.76
IN-WGWTo	Industrial, self-supplied groundwater withdrawals, total	0.50	0.76
IN-WFrTo	Industrial, self-supplied total withdrawals, fresh	0.50	0.76
IN-Wtotl	Industrial, self-supplied total withdrawals, total (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

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

Variable Name	Definition	2010 Water Use in Millions of Gallons per day	2010 Water Use in Gallons per 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
TO-WSWTo	Total surface-water withdrawals, total (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

Variable Name	Definition	2010 Water Use (Millions of Gallons per Day)	2010 Estimated Water Use per person (Gallons per Day)	Estimated Gallons Per Day	Projected Gallons per Day					
				2010	2015	2020	2025	2030	2035	2040
PS-WGWFr	Public Supply, groundwater withdrawals, fresh	8.45	12.83	2,515	2,543	2,572	2,592	2,602	2,600	2,590
PS-WSWFr	Public Supply, surface-water withdrawals, fresh	67.41	102.37	20,065	20,291	20,519	20,681	20,757	20,745	20,662
PS-Wtotl	Public Supply, total withdrawals, total (fresh+saline)	75.86	115.21	22,581	22,834	23,092	23,274	23,359	23,346	23,252
DO-WFrTo	Domestic, total self-supplied withdrawals, fresh	0.46	0.70	137	138	140	141	142	142	141
DO-PSDel	Domestic, deliveries from Public Supply	56.28	85.47	16,752	16,940	17,131	17,267	17,330	17,320	17,250
DO-TOTAL	Domestic, total use (withdrawals + deliveries)	56.74	86.17	16,889	17,079	17,271	17,408	17,471	17,462	17,391
IN-Wtotl	Industrial, self-supplied total withdrawals, total (fresh+saline)	0.50	0.76	149	151	152	153	154	154	153
IR-WGWFr	Irrigation, groundwater withdrawals, fresh	0.01	0.02	3	3	3	3	3	3	3

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

MI-WGWTo	Mining, groundwater withdrawals, total	0.85	1.29	253	256	259	261	262	262	261
MI-WSWTo	Mining, surface-water withdrawals, total	0.65	0.99	193	196	198	199	200	200	199
MI-Wtotl	Mining, total withdrawals, total (fresh+saline)	1.50	2.28	446	452	457	460	462	462	460
TO-WGWTo	Total groundwater withdrawals, total (fresh+saline)	10.31	15.66	3,069	3,103	3,138	3,163	3,175	3,173	3,160
TO-WSWTo	Total surface-water withdrawals, total (fresh+saline)	71.02	107.86	21,140	21,377	21,618	21,789	21,868	21,856	21,768
TO-WTotl	Total withdrawals, 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*/
LOGRECNO            /*Logical Record Number*/
STATE       /*State ID*/
COUNTY              /*County ID*/
TRACT       /*Tract ID*/
BLOCK       /*Block ID*/
ZCTA5       /*ZIP Code ID*/
BLOCK_POP100            /*Block-level Total Population*/
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
SUMLEV      /*Block Summary Level = 101*/
LOGRECNO            /*Logical Record Number*/
STATE       /*State ID*/
COUNTY              /*County ID*/
TRACT       /*Tract ID*/
BLOCK       /*Block ID*/
ZCTA5       /*ZIP Code ID*/
BLOCK_POP100            /*Block-level Total Population*/
BLOCK_HU100             /*Block-level Total Housing Units*/
```

```
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*/
LOGRECNO            /*Logical Record Number*/
STATE       /*State ID*/
COUNTY              /*County ID*/
TRACT       /*Tract ID*/
BLOCK       /*Block ID*/
ZCTA5       /*ZIP Code ID*/
BLOCK_POP100            /*Block-level Total Population*/
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
SUMLEV      /*Block Summary Level = 101*/
LOGRECNO            /*Logical Record Number*/
STATE       /*State ID*/
COUNTY              /*County ID*/
COUNTY_POP100           /*County-level Total Population*/
COUNTY_HU100            /*County-level Total Housing Units*/
```

```
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*/
LOGRECNO              /*Logical Record Number*/
STATE          /*State ID*/
COUNTY                /*County ID*/
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*/
LOGRECNO              /*Logical Record Number*/
STATE          /*State ID*/
COUNTY                /*County ID*/
COUNTY_POP100               /*County-level Total Population*/
COUNTY_HU100                /*County-level Total Housing Units*/
STATECOUNTY;
;
RUN;
```

```
/*########################################## ALABAMA
##########################################*/


/*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*/
PS_TOPop      /*      Public Supply, total population served, in thousands      */      ,
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*/      ,
PS_WSaTo      /*      Public Supply, total withdrawals, saline, in Mgal/d      */      ,
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
      */      ,
```

```
DO_WFrTo    /*    Domestic, total self-supplied withdrawals, fresh, in Mgal/d    */
        ,

DO_PSDel    /*    Domestic, deliveries from Public Supply, in Mgal/d    */    ,
DO_PSPCp    /*    Domestic, publicly supplied per capita use, in gallons/day [DO-
PSDel/PS-TOPop]    */    ,
DO_TOTAL    /*    Domestic, total use (withdrawals + deliveries)    */    ,
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
        */    ,
IN_WSWFr    /*    Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d
        */    ,
IN_WSWSa    /*    Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d
        */    ,
IN_WSWTo    /*    Industrial, self-supplied surface-water withdrawals, total, in Mgal/d
        */    ,
IN_WFrTo    /*    Industrial, self-supplied total withdrawals, fresh, in Mgal/d    */
        ,
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    */    ,
IR_WSWFr    /*    Irrigation, surface-water withdrawals, fresh, in Mgal/d    */    ,
IR_WFrTo    /*    Irrigation, total withdrawals, fresh, in Mgal/d    */    ,



IC_WGWFr    /*    Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d    */
        ,
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        */    ,



LI_WGWFr    /*    Livestock, groundwater withdrawals, fresh, in Mgal/d    */    ,
LI_WSWFr    /*    Livestock, surface-water withdrawals, fresh, in Mgal/d  */    ,
LI_WFrTo    /*    Livestock, total withdrawals, fresh, in Mgal/d      */    ,
AQ_WGWFr    /*    Aquaculture, groundwater withdrawals, fresh, in Mgal/d      */
      ,
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  */    ,
AQ_WSaTo    /*    Aquaculture, total withdrawals, saline, in Mgal/d */    ,
AQ_WTotl    /*    Aquaculture, total withdrawals, total (fresh+saline), in Mgal/d  */
      ,
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       */    ,
MI_WSWFr    /*    Mining, surface-water withdrawals, fresh, in Mgal/d     */    ,
MI_WSWSa    /*    Mining, surface-water withdrawals, saline, in Mgal/d    */    ,
MI_WSWTo    /*    Mining, surface-water withdrawals, total, in Mgal/d     */    ,
MI_WFrTo    /*    Mining, total withdrawals, fresh, in Mgal/d         */    ,
MI_WSaTo    /*    Mining, total withdrawals, saline, in Mgal/d        */    ,
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       */    ,
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
       */    ,
```

```
TO_WGWFr    /*      Total groundwater withdrawals, fresh, in Mgal/d */      ,
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
        */      ,
TO_WFrTo    /*      Total withdrawals, fresh, in Mgal/d         */      ,
TO_WSaTo    /*      Total withdrawals, saline, in Mgal/d        */      ,
TO_WTotl    /*      Total withdrawals, total (fresh+saline), in Mgal/d      */      ,

/*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    AS      Est_PS_WGWSa_2010       /*      2010 Block-
level population estimate times     Public Supply, groundwater withdrawals, saline, in
Mgal/d          Divided by Total Population (PS-TOPop)   */,
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)   */,
BLOCK_POP100*       PS_WSWFr    AS      Est_PS_WSWFr_2010       /*      2010 Block-
level population estimate times     Public Supply, surface-water withdrawals, fresh, in
Mgal/d          Divided by Total Population (PS-TOPop)   */,
BLOCK_POP100*       PS_WSWSa    AS      Est_PS_WSWSa_2010       /*      2010 Block-
level population estimate times     Public Supply, surface-water withdrawals, saline, in
Mgal/d          Divided by Total Population (PS-TOPop)   */,
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    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    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
Mgal/d          Divided by Total Population (PS-TOPop)   */,

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	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*	DO_TOTAL	AS	Est_DO_TOTAL_2010	/*	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 Block-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 Block-level 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 Block-level 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	AS	Est_IN_WSWSa_2010	/*	2010 Block-level 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-level 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)	*/,
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*  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)   */,
BLOCK_POP100*   MI_WSaTo   AS   Est_MI_WSaTo_2010 /*   2010 Block-level
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*   PT_WGWFr   AS   Est_PT_WGWFr_2010   /*   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   /*   2010 Block-
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
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)   */,
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
Mgal/d   Divided by Total Population (PS-TOPop)   */,
BLOCK_POP100*   PT_Power   AS   Est_PT_Power_2010   /*   2010 Block-level
population estimate times   Thermoelectric, power generated, in gigawatt-hours
    Divided by Total Population (PS-TOPop)   */,
BLOCK_POP100*   PO_WGWFr   AS   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*   PO_WGWSa   AS   Est_PO_WGWSa_2010   /*   2010 Block-
level population estimate times   Thermoelectric once-through, groundwater
withdrawals, saline, in Mgal/d   Divided by Total Population (PS-TOPop)   */,
```

```
BLOCK_POP100*  PO_WGWTo  AS  Est_PO_WGWTo_2010  /*  2010 Block-level population estimate times  Thermoelectric once-through, groundwater withdrawals, total, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
BLOCK_POP100*  PO_WSWFr  AS  Est_PO_WSWFr_2010  /*  2010 Block-level population estimate times  Thermoelectric once-through, surface-water withdrawals, fresh, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
BLOCK_POP100*  PO_WSWSa  AS  Est_PO_WSWSa_2010  /*  2010 Block-level population estimate times  Thermoelectric once-through, surface-water withdrawals, saline, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
BLOCK_POP100*  PO_WSWTo  AS  Est_PO_WSWTo_2010  /*  2010 Block-level population estimate times  Thermoelectric once-through, surface-water withdrawals, total, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
BLOCK_POP100*  PO_WFrTo  AS  Est_PO_WFrTo_2010 /*  2010 Block-level population estimate times  Thermoelectric once-through, total withdrawals, fresh, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
BLOCK_POP100*  PO_WSaTo  AS  Est_PO_WSaTo_2010 /*  2010 Block-level population estimate times  Thermoelectric once-through, total withdrawals, saline, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
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)  */,
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  AS  Est_PC_WGWFr_2010  /*  2010 Block-level population estimate times  Thermoelectric recirculation, groundwater withdrawals, fresh, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
BLOCK_POP100*  PC_WGWSa  AS  Est_PC_WGWSa_2010  /*  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*  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*  PC_WSWSa  AS  Est_PC_WSWSa_2010  /*  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  AS  Est_PC_WSWTo_2010  /*  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 Mgal/d  Divided by Total Population (PS-TOPop)  */,
```

```
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*  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)  */,
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-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)  */,
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*  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)  */,
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  Est_TO_WTotl_2010  /*  2010 Block-level 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-
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
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
(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,
in Mgal/d      Divided by Total Population (PS-TOPop)  */,

CALCULATED BLOCK_PROJ_2015* DO_TOTAL    AS      Proj_DO_TOTAL_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    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    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
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    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_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    AS      Proj_IR_WSWFr_2015      /*
        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    AS      Proj_IR_WFrTo_2015      /*
        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,
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
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
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* 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)   */,
CALCULATED BLOCK_PROJ_2015* AQ_WGWSa    AS      Proj_AQ_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
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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2015* AQ_WSWTo  AS      Proj_AQ_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
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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
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
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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2015* MI_WSWFr  AS      Proj_MI_WSWFr_2015      /*
      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  AS      Proj_MI_WSWSa_2015      /*
      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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2015* MI_WFrTo  AS      Proj_MI_WFrTo_2015      /*
      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,
saline, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2015* MI_Wtotl     AS      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     AS      Proj_PT_WFrTo_2015        /*
        2015 Block-level population projection share times      Thermoelectric, total
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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-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-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 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 AS Proj_PC_WGWFr_2015 /* 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    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* PC_Power    AS      Proj_PC_Power_2015      /*
        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)   */,
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
withdrawals, fresh, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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,
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
withdrawals, fresh, in Mgal/d        Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2020* PS_WGWSa    AS      Proj_PS_WGWSa_2020      /*
        2020 Block-level population projection share times      Public Supply, groundwater
withdrawals, saline, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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      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)   */,
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    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)   */,
```

```
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    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* 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    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    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    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    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      AS      Proj_IN_WSaTo_2020        /*
        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_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      AS      Proj_IR_WSWFr_2020        /*
        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      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-
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,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,
```

```
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
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
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
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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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      AS      Proj_AQ_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
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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2020* MI_WGWSa    AS      Proj_MI_WGWSa_2020      /*
        2020 Block-level population projection share times      Mining, groundwater
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
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    AS      Proj_MI_WSWFr_2020      /*
        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    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
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,
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,
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_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    AS      Proj_PT_WFrTo_2020      /*
        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
(fresh+saline), in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2020* PT_Power    AS      Proj_PT_Power_2020      /*
        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    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_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 AS Proj_PO_Power_2020 /* 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 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 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* 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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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    AS      Proj_TO_WSaTo_2020        /*
        2020 Block-level population projection share times      Total withdrawals, saline,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_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      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_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_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 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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,

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



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, surface-
water 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      Proj_LI_WFrTo_2025/*      2025
Block-level population projection share times      Livestock, total withdrawals, fresh, in
Mgal/d          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
withdrawals, fresh, in Mgal/d          Divided by Total Population (PS-TOPop)   */,
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
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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
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_PROJ_2025* AQ_WSWTo    AS      Proj_AQ_WSWTo_2025      /*
        2025 Block-level population projection share times      Aquaculture, surface-water
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* 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
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      Proj_MI_WSWSa_2025      /*
        2025 Block-level population projection share times      Mining, surface-water
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
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,
fresh, in Mgal/d        Divided by Total Population (PS-TOPop)  */,
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 (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 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_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) */,
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 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 (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2025* PT_Power AS Proj_PT_Power_2025 /* 2025 Block-level population projection share times Thermoelectric, power 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_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* 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
recirculation, groundwater withdrawals, total, in Mgal/d Divided by Total Population
(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* PC_Power AS Proj_PC_Power_2025 /*
        2025 Block-level population projection share times Thermoelectric
recirculation, power generated, in gigawatt-hours 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
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
withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
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
Mgal/d        Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2025* TO_WSaTo     AS      Proj_TO_WSaTo_2025        /*
        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     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
withdrawals, fresh, in Mgal/d        Divided by Total Population (PS-TOPop)   */,
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     AS      Proj_PS_WSWFr_2030        /*
        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
(fresh+saline), in Mgal/d     Divided by Total Population (PS-TOPop)   */,

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 self-
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,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,

CALCULATED BLOCK_PROJ_2030* DO_TOTAL    AS      Proj_DO_TOTAL_2030      /*
        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_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    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    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
total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* IN_Wtotl AS 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 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 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 AS Proj_IC_WSWFr_2030 /*
        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) */,
```

```
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
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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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* AQ_WGWFr     AS      Proj_AQ_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* AQ_WGWSa     AS      Proj_AQ_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* AQ_WSWFr     AS      Proj_AQ_WSWFr_2030        /*
        2030 Block-level population projection share times      Aquaculture, surface-water
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2030* AQ_WSWSa     AS      Proj_AQ_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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2030* AQ_WSaTo     AS      Proj_AQ_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)   */,
```

```
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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2030* MI_WSWFr    AS      Proj_MI_WSWFr_2030      /*
        2030 Block-level population projection share times      Mining, surface-water
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
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_PROJ_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,
fresh, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
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    AS      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)  */,
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
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
(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     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     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 Block-level population projection share times Thermoelectric once-through, total withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* PO_Power AS 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 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_PROJ_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* PC_Power AS Proj_PC_Power_2030 /* 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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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
Mgal/d          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,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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_PROJ_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      Proj_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      /*
        2035 Block-level population projection share times      Public Supply, total
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_PROJ_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,
in Mgal/d       Divided by Total Population (PS-TOPop)  */,

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    AS      Proj_IN_WGWFr_2035      /*
        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     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
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     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     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_PROJ_2035* IR_WGWFr     AS       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     AS       Proj_IR_WSWFr_2035        /*
        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     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, in Mgal/d Divided by Total Population (PS-TOPop) */,

CALCULATED BLOCK_PROJ_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 AS Proj_IG_WFrTo_2035 /* 2035 Block-level population projection share times Irrigation-Golf, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,

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 withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* LI_WFrTo AS Proj_LI_WFrTo_2035/* 2035 Block-level population projection share times Livestock, total withdrawals, fresh, in Mgal/d 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 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 withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK_PROJ_2035* AQ_WSWFr    AS      Proj_AQ_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_PROJ_2035* AQ_WSWSa    AS      Proj_AQ_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_PROJ_2035* AQ_WSWTo    AS      Proj_AQ_WSWTo_2035      /*
        2035 Block-level population projection share times      Aquaculture, surface-water
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* AQ_WFrTo    AS      Proj_AQ_WFrTo_2035      /*
        2035 Block-level population projection share times      Aquaculture, total
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
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
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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* MI_WGWTo    AS      Proj_MI_WGWTo_2035      /*
        2035 Block-level population projection share times      Mining, groundwater
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* MI_WSWFr    AS      Proj_MI_WSWFr_2035      /*
        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    AS      Proj_MI_WSWSa_2035      /*
        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
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,
fresh, in Mgal/d        Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* MI_WSaTo    AS      Proj_MI_WSaTo_2035      /*
        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 /* 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 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 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* PT_Power AS Proj_PT_Power_2035 /* 2035 Block-level population projection share times Thermoelectric, power 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_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 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_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 AS Proj_PO_Power_2035 /*
        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 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 /*
        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
recirculation, power generated, in gigawatt-hours 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
Mgal/d        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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2035* TO_WTotl     AS      Proj_TO_WTotl_2035        /*
        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
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        /*
        2040 Block-level population projection share times      Public Supply, groundwater
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     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     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     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    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,
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    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)
        */,
CALCULATED BLOCK_PROJ_2040* IN_WGWTo    AS      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    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      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)
        */,
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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2040* IR_WFrTo      AS      Proj_IR_WFrTo_2040        /*
        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      AS      Proj_IC_WSWFr_2040        /*
        2040 Block-level population projection share times      Irrigation-Crop, surface-
water 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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,
```

```
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
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
Mgal/d       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
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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2040* AQ_WGWTo      AS      Proj_AQ_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
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      AS      Proj_AQ_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_PROJ_2040* AQ_WTotl      AS      Proj_AQ_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      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,
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
(fresh+saline), in Mgal/d     Divided by Total Population (PS-TOPop)  */,
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_PROJ_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
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* PT_Power    AS      Proj_PT_Power_2040      /*
        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      /*
        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-
through, surface-water withdrawals, total, in Mgal/d    Divided by Total Population (PS-
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    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 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 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 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* 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
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_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        /*
        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    AS      Proj_TO_WSaTo_2040        /*
        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      */      ,
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*/      ,
PS_WSaTo      /*      Public Supply, total withdrawals, saline, in Mgal/d      */      ,
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
        */      ,
```

```
DO_WFrTo    /*    Domestic, total self-supplied withdrawals, fresh, in Mgal/d    */
      ,

DO_PSDel    /*    Domestic, deliveries from Public Supply, in Mgal/d    */    ,
DO_PSPCp    /*    Domestic, publicly supplied per capita use, in gallons/day [DO-
PSDel/PS-TOPop]    */    ,
DO_TOTAL    /*    Domestic, total use (withdrawals + deliveries)    */    ,
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
      */    ,
IN_WSWFr    /*    Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d
      */    ,
IN_WSWSa    /*    Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d
      */    ,
IN_WSWTo    /*    Industrial, self-supplied surface-water withdrawals, total, in Mgal/d
      */    ,
IN_WFrTo    /*    Industrial, self-supplied total withdrawals, fresh, in Mgal/d    */
      ,
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    */    ,
IR_WSWFr    /*    Irrigation, surface-water withdrawals, fresh, in Mgal/d    */    ,
IR_WFrTo    /*    Irrigation, total withdrawals, fresh, in Mgal/d    */    ,



IC_WGWFr    /*    Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d    */
      ,
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        */    ,



LI_WGWFr    /*    Livestock, groundwater withdrawals, fresh, in Mgal/d    */    ,
LI_WSWFr    /*    Livestock, surface-water withdrawals, fresh, in Mgal/d  */    ,
LI_WFrTo    /*    Livestock, total withdrawals, fresh, in Mgal/d      */    ,
AQ_WGWFr    /*    Aquaculture, groundwater withdrawals, fresh, in Mgal/d        */
      ,
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  */    ,
AQ_WSaTo    /*    Aquaculture, total withdrawals, saline, in Mgal/d */    ,
AQ_WTotl    /*    Aquaculture, total withdrawals, total (fresh+saline), in Mgal/d  */
      ,
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       */    ,
MI_WSWFr    /*    Mining, surface-water withdrawals, fresh, in Mgal/d     */    ,
MI_WSWSa    /*    Mining, surface-water withdrawals, saline, in Mgal/d    */    ,
MI_WSWTo    /*    Mining, surface-water withdrawals, total, in Mgal/d     */    ,
MI_WFrTo    /*    Mining, total withdrawals, fresh, in Mgal/d       */    ,
MI_WSaTo    /*    Mining, total withdrawals, saline, in Mgal/d      */    ,
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       */    ,
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
       */    ,
```

```
TO_WGWFr    /*      Total groundwater withdrawals, fresh, in Mgal/d */      ,
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
        */      ,
TO_WFrTo    /*      Total withdrawals, fresh, in Mgal/d         */      ,
TO_WSaTo    /*      Total withdrawals, saline, in Mgal/d        */      ,
TO_WTotl    /*      Total withdrawals, total (fresh+saline), in Mgal/d      */      ,

/*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    AS      Est_PS_WGWSa_2010       /*      2010 Block-
level population estimate times     Public Supply, groundwater withdrawals, saline, in
Mgal/d          Divided by Total Population (PS-TOPop)   */,
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)   */,
BLOCK_POP100*       PS_WSWFr    AS      Est_PS_WSWFr_2010       /*      2010 Block-
level population estimate times     Public Supply, surface-water withdrawals, fresh, in
Mgal/d          Divided by Total Population (PS-TOPop)   */,
BLOCK_POP100*       PS_WSWSa    AS      Est_PS_WSWSa_2010       /*      2010 Block-
level population estimate times     Public Supply, surface-water withdrawals, saline, in
Mgal/d          Divided by Total Population (PS-TOPop)   */,
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    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    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
Mgal/d          Divided by Total Population (PS-TOPop)   */,

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	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*	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	AS	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	AS	Est_IN_WGWTo_2010	/*	2010 Block-level 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	AS	Est_IN_WSWSa_2010	/*	2010 Block-level 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-level 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)	*/,
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* 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) */,

```
BLOCK_POP100*	MI_WSaTo	AS	Est_MI_WSaTo_2010 /*	2010 Block-level 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*	PT_WGWFr	AS	Est_PT_WGWFr_2010	/*	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	/*	2010 Block-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 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)	*/,
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 Mgal/d	Divided by Total Population (PS-TOPop)	*/,

BLOCK_POP100*	PO_WGWFr	AS	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*	PO_WGWSa	AS	Est_PO_WGWSa_2010	/*	2010 Block-level population estimate times	Thermoelectric once-through, groundwater withdrawals, saline, in Mgal/d	Divided by Total Population (PS-TOPop)	*/,
BLOCK_POP100*	PO_WGWTo	AS	Est_PO_WGWTo_2010	/*	2010 Block-level population estimate times	Thermoelectric once-through, groundwater withdrawals, total, in Mgal/d	Divided by Total Population (PS-TOPop)	*/,
```

BLOCK_POP100* PO_WSWFr AS Est_PO_WSWFr_2010 /* 2010 Block-level population estimate times Thermoelectric once-through, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
BLOCK_POP100* PO_WSWSa AS Est_PO_WSWSa_2010 /* 2010 Block-level population estimate times Thermoelectric once-through, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
BLOCK_POP100* PO_WSWTo AS Est_PO_WSWTo_2010 /* 2010 Block-level population estimate times Thermoelectric once-through, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
BLOCK_POP100* PO_WFrTo AS Est_PO_WFrTo_2010 /* 2010 Block-level population estimate times Thermoelectric once-through, total withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
BLOCK_POP100* PO_WSaTo AS Est_PO_WSaTo_2010 /* 2010 Block-level population estimate times Thermoelectric once-through, total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
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) */,
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 AS Est_PC_WGWFr_2010 /* 2010 Block-level population estimate times Thermoelectric recirculation, groundwater withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
BLOCK_POP100* PC_WGWSa AS Est_PC_WGWSa_2010 /* 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* 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* PC_WSWSa AS Est_PC_WSWSa_2010 /* 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 AS Est_PC_WSWTo_2010 /* 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 Mgal/d Divided by Total Population (PS-TOPop) */,
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-
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)   */,
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*      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)       */,
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      Est_TO_WTotl_2010  /*      2010 Block-level
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-
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
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
(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,
in Mgal/d       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     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
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     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_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     AS      Proj_IR_WSWFr_2015        /*
        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     AS      Proj_IR_WFrTo_2015        /*
        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, 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 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 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* 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) */,
CALCULATED BLOCK_PROJ_2015* AQ_WGWSa AS Proj_AQ_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 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 withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
CALCULATED BLOCK_PROJ_2015* AQ_WSWTo    AS      Proj_AQ_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
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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
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
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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2015* MI_WSWFr    AS      Proj_MI_WSWFr_2015      /*
        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    AS      Proj_MI_WSWSa_2015      /*
        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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2015* MI_WFrTo    AS      Proj_MI_WFrTo_2015      /*
        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,
saline, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2015* MI_Wtotl    AS      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    AS      Proj_PT_WFrTo_2015      /*
        2015 Block-level population projection share times      Thermoelectric, total
withdrawals, fresh, in Mgal/d   Divided by Total Population (PS-TOPop)  */,
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* 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-
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-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 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 AS Proj_PC_WGWFr_2015 /*
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 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
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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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,
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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2020* PS_WGWSa    AS      Proj_PS_WGWSa_2020      /*
        2020 Block-level population projection share times      Public Supply, groundwater
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
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      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)  */,
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    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)  */,

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    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     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     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     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     AS      Proj_IN_WSaTo_2020      /*
        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_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     AS      Proj_IR_WSWFr_2020      /*
        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     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-
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,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,
```

```
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
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
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
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
withdrawals, total, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
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  AS  Proj_AQ_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
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
withdrawals, fresh, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2020* MI_WGWSa  AS  Proj_MI_WGWSa_2020  /*
    2020 Block-level population projection share times  Mining, groundwater
withdrawals, saline, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
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  AS  Proj_MI_WSWFr_2020  /*
    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  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
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,
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,
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_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 AS Proj_PT_WFrTo_2020 /*
        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
(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-
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_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 AS Proj_PO_Power_2020 /*
        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 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
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
withdrawals, fresh, in Mgal/d      Divided by Total Population (PS-TOPop)    */,
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     AS      Proj_TO_WSaTo_2020        /*
        2020 Block-level population projection share times      Total withdrawals, saline,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_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      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_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_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 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,
in Mgal/d      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)
        */,
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    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_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    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_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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
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,
in Mgal/d       Divided by Total Population (PS-TOPop)  */,

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, surface-
water 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 Proj_LI_WFrTo_2025/* 2025
Block-level population projection share times Livestock, total withdrawals, fresh, in
Mgal/d 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
withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
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
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
withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
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_PROJ_2025* AQ_WSWTo AS Proj_AQ_WSWTo_2025 /*
    2025 Block-level population projection share times Aquaculture, surface-water
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* 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
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      Proj_MI_WSWSa_2025      /*
        2025 Block-level population projection share times      Mining, surface-water
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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,
fresh, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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
(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    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_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)   */,
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 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 (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-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_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* 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 recirculation, groundwater withdrawals, total, in Mgal/d Divided by Total Population (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 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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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
Mgal/d          Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2025* TO_WSaTo   AS      Proj_TO_WSaTo_2025      /*
        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   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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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   AS      Proj_PS_WSWFr_2030      /*
        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
(fresh+saline), in Mgal/d     Divided by Total Population (PS-TOPop)   */,

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 self-
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,
in Mgal/d      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_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     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     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 total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* IN_Wtotl AS 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 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 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 AS Proj_IC_WSWFr_2030 /* 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) */,

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 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 withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
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* AQ_WGWFr AS Proj_AQ_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* AQ_WGWSa AS Proj_AQ_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* AQ_WSWFr AS Proj_AQ_WSWFr_2030 /* 2030 Block-level population projection share times Aquaculture, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* AQ_WSWSa AS Proj_AQ_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 withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* AQ_WSaTo AS Proj_AQ_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)   */,
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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2030* MI_WSWFr    AS      Proj_MI_WSWFr_2030        /*
        2030 Block-level population projection share times      Mining, surface-water
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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_PROJ_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,
fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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    AS      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)   */,
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
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
(fresh+saline), in Mgal/d      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    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    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
Block-level population projection share times       Thermoelectric once-through, total
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2030* PO_Power    AS      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    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_PROJ_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
withdrawals, fresh, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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
Mgal/d      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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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_PROJ_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      Proj_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      /*
        2035 Block-level population projection share times      Public Supply, total
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_PROJ_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,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,


CALCULATED BLOCK_PROJ_2035* IN_WGWFr    AS      Proj_IN_WGWFr_2035      /*
        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    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
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    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    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_PROJ_2035* IR_WGWFr    AS      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    AS      Proj_IR_WSWFr_2035      /*
        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    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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,

CALCULATED BLOCK_PROJ_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     AS      Proj_IG_WFrTo_2035        /*
        2035 Block-level population projection share times      Irrigation-Golf, total
withdrawals, fresh, in Mgal/d        Divided by Total Population (PS-TOPop)   */,

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
withdrawals, fresh, in Mgal/d        Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2035* LI_WFrTo     AS      Proj_LI_WFrTo_2035/*      2035
Block-level population projection share times      Livestock, total withdrawals, fresh, in
Mgal/d        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
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
withdrawals, total, in Mgal/d        Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2035* AQ_WSWFr     AS      Proj_AQ_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_PROJ_2035* AQ_WSWSa    AS      Proj_AQ_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_PROJ_2035* AQ_WSWTo    AS      Proj_AQ_WSWTo_2035      /*
        2035 Block-level population projection share times      Aquaculture, surface-water
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* AQ_WFrTo    AS      Proj_AQ_WFrTo_2035      /*
        2035 Block-level population projection share times      Aquaculture, total
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
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
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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* MI_WGWTo    AS      Proj_MI_WGWTo_2035      /*
        2035 Block-level population projection share times      Mining, groundwater
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* MI_WSWFr    AS      Proj_MI_WSWFr_2035      /*
        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    AS      Proj_MI_WSWSa_2035      /*
        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
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,
fresh, in Mgal/d        Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* MI_WSaTo    AS      Proj_MI_WSaTo_2035      /*
        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 /* 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 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 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-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_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    AS      Proj_PO_Power_2035      /*
        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    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 /* 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 Mgal/d 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, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2035* TO_WTotl AS Proj_TO_WTotl_2035 /* 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      /*
        2040 Block-level population projection share times      Public Supply, groundwater
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    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    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    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    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,
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
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    AS      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    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    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)
        */,
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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2040* IR_WFrTo    AS      Proj_IR_WFrTo_2040      /*
        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     AS       Proj_IC_WSWFr_2040         /*
        2040 Block-level population projection share times       Irrigation-Crop, surface-
water 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,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,
```

```
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
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
Mgal/d         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
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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2040* AQ_WGWTo    AS      Proj_AQ_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
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    AS      Proj_AQ_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_PROJ_2040* AQ_WTotl    AS      Proj_AQ_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      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,
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
(fresh+saline), in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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_PROJ_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
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-
through, surface-water withdrawals, total, in Mgal/d    Divided by Total Population (PS-
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    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    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    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     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
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_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        /*
        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     AS      Proj_TO_WSaTo_2040        /*
        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 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      */      ,
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*/      ,
PS_WSaTo      /*    Public Supply, total withdrawals, saline, in Mgal/d      */      ,
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
      */      ,
DO_WFrTo      /*    Domestic, total self-supplied withdrawals, fresh, in Mgal/d      */
      ,

DO_PSDel      /*    Domestic, deliveries from Public Supply, in Mgal/d      */      ,
DO_PSPCp      /*    Domestic, publicly supplied per capita use, in gallons/day [DO-
PSDel/PS-TOPop]      */      ,
DO_TOTAL      /*    Domestic, total use (withdrawals + deliveries)      */      ,
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
      */      ,
```

```
IN_WSWFr    /*    Industrial, self-supplied surface-water withdrawals, fresh, in Mgal/d
        */    ,
IN_WSWSa    /*    Industrial, self-supplied surface-water withdrawals, saline, in Mgal/d
        */    ,
IN_WSWTo    /*    Industrial, self-supplied surface-water withdrawals, total, in Mgal/d
        */    ,
IN_WFrTo    /*    Industrial, self-supplied total withdrawals, fresh, in Mgal/d      */
        ,
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   */      ,
IR_WSWFr    /*    Irrigation, surface-water withdrawals, fresh, in Mgal/d */      ,
IR_WFrTo    /*    Irrigation, total withdrawals, fresh, in Mgal/d     */      ,



IC_WGWFr    /*    Irrigation-Crop, groundwater withdrawals, fresh, in Mgal/d      */
        ,
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        */      ,



LI_WGWFr    /*    Livestock, groundwater withdrawals, fresh, in Mgal/d    */      ,
LI_WSWFr    /*    Livestock, surface-water withdrawals, fresh, in Mgal/d  */      ,
LI_WFrTo    /*    Livestock, total withdrawals, fresh, in Mgal/d      */      ,
AQ_WGWFr    /*    Aquaculture, groundwater withdrawals, fresh, in Mgal/d      */
        ,
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  */       ,
AQ_WSaTo    /*    Aquaculture, total withdrawals, saline, in Mgal/d */       ,
AQ_WTotl    /*    Aquaculture, total withdrawals, total (fresh+saline), in Mgal/d  */
        ,
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       */      ,
MI_WSWFr    /*    Mining, surface-water withdrawals, fresh, in Mgal/d     */      ,
MI_WSWSa    /*    Mining, surface-water withdrawals, saline, in Mgal/d    */      ,
MI_WSWTo    /*    Mining, surface-water withdrawals, total, in Mgal/d     */      ,
MI_WFrTo    /*    Mining, total withdrawals, fresh, in Mgal/d       */      ,
MI_WSaTo    /*    Mining, total withdrawals, saline, in Mgal/d      */      ,
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       */      ,
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
      */    ,
TO_WGWFr    /*    Total groundwater withdrawals, fresh, in Mgal/d */    ,
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
      */    ,
TO_WFrTo    /*    Total withdrawals, fresh, in Mgal/d    */    ,
TO_WSaTo    /*    Total withdrawals, saline, in Mgal/d    */    ,
TO_WTotl    /*    Total withdrawals, total (fresh+saline), in Mgal/d    */    ,
```

```
/*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   AS     Est_PS_WGWSa_2010      /*     2010 Block-
level population estimate times     Public Supply, groundwater withdrawals, saline, in
Mgal/d      Divided by Total Population (PS-TOPop)   */,
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)   */,
BLOCK_POP100*     PS_WSWFr   AS     Est_PS_WSWFr_2010      /*     2010 Block-
level population estimate times     Public Supply, surface-water withdrawals, fresh, in
Mgal/d      Divided by Total Population (PS-TOPop)   */,
BLOCK_POP100*     PS_WSWSa   AS     Est_PS_WSWSa_2010      /*     2010 Block-
level population estimate times     Public Supply, surface-water withdrawals, saline, in
Mgal/d      Divided by Total Population (PS-TOPop)   */,
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   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   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
Mgal/d      Divided by Total Population (PS-TOPop)   */,

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   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*  DO_TOTAL  AS  Est_DO_TOTSC_2010 /*  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 Block-
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 Block-
level 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 Block-
level 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  AS  Est_IN_WSWSa_2010 /*  2010 Block-level
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-
level 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)  */,
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*  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) */,
BLOCK_POP100* MI_WSaTo AS Est_MI_WSaTo_2010 /* 2010 Block-level 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* PT_WGWFr AS Est_PT_WGWFr_2010 /* 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 /* 2010 Block-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 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) */,
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 Mgal/d Divided by Total Population (PS-TOPop) */,

BLOCK_POP100* PO_WGWFr AS 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* PO_WGWSa AS Est_PO_WGWSa_2010 /* 2010 Block-level population estimate times Thermoelectric once-through, groundwater withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
BLOCK_POP100* PO_WGWTo AS Est_PO_WGWTo_2010 /* 2010 Block-level population estimate times Thermoelectric once-through, groundwater withdrawals, total, in Mgal/d Divided by Total Population (PS-TOPop) */,
BLOCK_POP100* PO_WSWFr AS Est_PO_WSWFr_2010 /* 2010 Block-level population estimate times Thermoelectric once-through, surface-water withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
BLOCK_POP100* PO_WSWSa AS Est_PO_WSWSa_2010 /* 2010 Block-level population estimate times Thermoelectric once-through, surface-water withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,

```
BLOCK_POP100*  PO_WSWTo  AS  Est_PO_WSWTo_2010  /*  2010 Block-level population estimate times  Thermoelectric once-through, surface-water withdrawals, total, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
BLOCK_POP100*  PO_WFrTo  AS  Est_PO_WFrTo_2010 /*  2010 Block-level population estimate times  Thermoelectric once-through, total withdrawals, fresh, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
BLOCK_POP100*  PO_WSaTo  AS  Est_PO_WSaTo_2010 /*  2010 Block-level population estimate times  Thermoelectric once-through, total withdrawals, saline, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
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)  */,

BLOCK_POP100*  PC_WGWFr  AS  Est_PC_WGWFr_2010  /*  2010 Block-level population estimate times  Thermoelectric recirculation, groundwater withdrawals, fresh, in Mgal/d  Divided by Total Population (PS-TOPop)  */,
BLOCK_POP100*  PC_WGWSa  AS  Est_PC_WGWSa_2010  /*  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*  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*  PC_WSWSa  AS  Est_PC_WSWSa_2010  /*  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  AS  Est_PC_WSWTo_2010  /*  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 Mgal/d  Divided by Total Population (PS-TOPop)  */,
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-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)  */,
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*  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)  */,
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  Est_TO_WTotl_2010  /*  2010 Block-level 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-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
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
(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,
in Mgal/d      Divided by Total Population (PS-TOPop)  */,

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    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     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
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     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_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     AS      Proj_IR_WSWFr_2015        /*
        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     AS      Proj_IR_WFrTo_2015        /*
        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,
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
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
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* 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)   */,
CALCULATED BLOCK_PROJ_2015* AQ_WGWSa    AS      Proj_AQ_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
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
withdrawals, saline, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2015* AQ_WSWTo    AS      Proj_AQ_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
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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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
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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2015* MI_WSWFr     AS      Proj_MI_WSWFr_2015        /*
        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     AS      Proj_MI_WSWSa_2015        /*
        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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2015* MI_WFrTo     AS      Proj_MI_WFrTo_2015        /*
        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,
saline, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2015* MI_Wtotl     AS      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    AS      Proj_PT_WFrTo_2015      /*
        2015 Block-level population projection share times      Thermoelectric, total
withdrawals, fresh, in Mgal/d   Divided by Total Population (PS-TOPop)  */,
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* 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-
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-
```

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 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* PC_WGWFr AS Proj_PC_WGWFr_2015 /* 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 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
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
withdrawals, fresh, in Mgal/d          Divided by Total Population (PS-TOPop)    */,
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,
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
withdrawals, fresh, in Mgal/d          Divided by Total Population (PS-TOPop)    */,
CALCULATED BLOCK_PROJ_2020* PS_WGWSa    AS      Proj_PS_WGWSa_2020        /*
          2020 Block-level population projection share times      Public Supply, groundwater
withdrawals, saline, in Mgal/d          Divided by Total Population (PS-TOPop)    */,
```

```
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      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)   */,
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    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)   */,

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    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* 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    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    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    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    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    AS      Proj_IN_WSaTo_2020      /*
        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_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    AS      Proj_IR_WSWFr_2020      /*
        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    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-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, in Mgal/d Divided by Total Population (PS-TOPop) */,

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

```
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    AS      Proj_AQ_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
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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2020* MI_WGWSa    AS      Proj_MI_WGWSa_2020      /*
        2020 Block-level population projection share times      Mining, groundwater
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
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    AS      Proj_MI_WSWFr_2020      /*
        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    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
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,
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,
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_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 AS Proj_PT_WFrTo_2020 /* 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 (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-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_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* 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

```
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
withdrawals, fresh, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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   AS      Proj_TO_WSaTo_2020      /*
        2020 Block-level population projection share times      Total withdrawals, saline,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,
```

```
CALCULATED BLOCK_PROJ_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      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_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_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 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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,

CALCULATED BLOCK_PROJ_2025* DO_TOTAL     AS      Proj_DO_TOTSC_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     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)
        */,
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     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_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     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_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
withdrawals, fresh, in Mgal/d         Divided by Total Population (PS-TOPop)   */,
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,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,
```

```
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, surface-
water 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 Proj_LI_WFrTo_2025/* 2025
Block-level population projection share times Livestock, total withdrawals, fresh, in
Mgal/d 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
withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
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
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
withdrawals, fresh, in Mgal/d Divided by Total Population (PS-TOPop) */,
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_PROJ_2025* AQ_WSWTo AS Proj_AQ_WSWTo_2025 /*
    2025 Block-level population projection share times Aquaculture, surface-water
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* 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
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      Proj_MI_WSWSa_2025      /*
        2025 Block-level population projection share times      Mining, surface-water
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
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,
fresh, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
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
(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    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_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)  */,
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
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 (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-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_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 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 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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)   */,
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
Mgal/d      Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2025* TO_WSaTo    AS      Proj_TO_WSaTo_2025      /*
        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    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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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    AS      Proj_PS_WSWFr_2030      /*
        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
(fresh+saline), in Mgal/d     Divided by Total Population (PS-TOPop)   */,

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 self-
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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,

CALCULATED BLOCK_PROJ_2030* DO_TOTAL     AS      Proj_DO_TOTSC_2030        /*
        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_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     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     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 total withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2030* IN_Wtotl AS 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 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 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 AS Proj_IC_WSWFr_2030 /* 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) */,

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
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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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* AQ_WGWFr    AS      Proj_AQ_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* AQ_WGWSa    AS      Proj_AQ_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* AQ_WSWFr    AS      Proj_AQ_WSWFr_2030      /*
        2030 Block-level population projection share times      Aquaculture, surface-water
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2030* AQ_WSWSa    AS      Proj_AQ_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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2030* AQ_WSaTo    AS      Proj_AQ_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)   */,
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
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2030* MI_WSWFr    AS      Proj_MI_WSWFr_2030        /*
        2030 Block-level population projection share times      Mining, surface-water
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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_PROJ_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,
fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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    AS      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)   */,
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
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
(fresh+saline), in Mgal/d       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    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    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 Block-level population projection share times Thermoelectric once-through, total withdrawals, total, in Mgal/d 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 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_PROJ_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
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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
Mgal/d          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,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,
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_PROJ_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      Proj_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      /*
        2035 Block-level population projection share times      Public Supply, total
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_PROJ_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,
in Mgal/d       Divided by Total Population (PS-TOPop)  */,

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    AS      Proj_IN_WGWFr_2035      /*
        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    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
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    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    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_PROJ_2035* IR_WGWFr    AS      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    AS      Proj_IR_WSWFr_2035      /*
        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    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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,



CALCULATED BLOCK_PROJ_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     AS      Proj_IG_WFrTo_2035        /*
        2035 Block-level population projection share times      Irrigation-Golf, total
withdrawals, fresh, in Mgal/d          Divided by Total Population (PS-TOPop)   */,



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
withdrawals, fresh, in Mgal/d          Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2035* LI_WFrTo     AS      Proj_LI_WFrTo_2035/*      2035
Block-level population projection share times      Livestock, total withdrawals, fresh, in
Mgal/d          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
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
withdrawals, total, in Mgal/d          Divided by Total Population (PS-TOPop)   */,
```

```
CALCULATED BLOCK_PROJ_2035* AQ_WSWFr    AS      Proj_AQ_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_PROJ_2035* AQ_WSWSa    AS      Proj_AQ_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_PROJ_2035* AQ_WSWTo    AS      Proj_AQ_WSWTo_2035      /*
        2035 Block-level population projection share times      Aquaculture, surface-water
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* AQ_WFrTo    AS      Proj_AQ_WFrTo_2035      /*
        2035 Block-level population projection share times      Aquaculture, total
withdrawals, fresh, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
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
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
withdrawals, saline, in Mgal/d      Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* MI_WGWTo    AS      Proj_MI_WGWTo_2035      /*
        2035 Block-level population projection share times      Mining, groundwater
withdrawals, total, in Mgal/d       Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* MI_WSWFr    AS      Proj_MI_WSWFr_2035      /*
        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    AS      Proj_MI_WSWSa_2035      /*
        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
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,
fresh, in Mgal/d        Divided by Total Population (PS-TOPop)  */,
CALCULATED BLOCK_PROJ_2035* MI_WSaTo    AS      Proj_MI_WSaTo_2035      /*
        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 /* 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 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 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-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_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* 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      /*
        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
Mgal/d      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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,
```

```
CALCULATED BLOCK_PROJ_2035* TO_WTotl      AS      Proj_TO_WTotl_2035          /*
        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          /*
        2040 Block-level population projection share times      Public Supply, groundwater
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     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     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     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     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,
in Mgal/d      Divided by Total Population (PS-TOPop)   */,

CALCULATED BLOCK_PROJ_2040* DO_TOTAL     AS       Proj_DO_TOTSC_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     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)
        */,
CALCULATED BLOCK_PROJ_2040* IN_WGWTo     AS       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     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     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)
        */,
```

```
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
withdrawals, fresh, in Mgal/d        Divided by Total Population (PS-TOPop)   */,
CALCULATED BLOCK_PROJ_2040* IR_WFrTo     AS       Proj_IR_WFrTo_2040        /*
        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     AS       Proj_IC_WSWFr_2040        /*
        2040 Block-level population projection share times       Irrigation-Crop, surface-
water 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,
in Mgal/d       Divided by Total Population (PS-TOPop)   */,
```

```
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
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
Mgal/d 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
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
withdrawals, saline, in Mgal/d Divided by Total Population (PS-TOPop) */,
CALCULATED BLOCK_PROJ_2040* AQ_WGWTo AS Proj_AQ_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
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 AS Proj_AQ_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_PROJ_2040* AQ_WTotl AS Proj_AQ_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 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, 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 (fresh+saline), in Mgal/d Divided by Total Population (PS-TOPop) */,
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_PROJ_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 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-through, surface-water withdrawals, total, in Mgal/d Divided by Total Population (PS-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 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* 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    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
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_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      /*
        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    AS      Proj_TO_WSaTo_2040      /*
        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 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;
```

```
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	Type	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 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
GEOID10	Number	Block identifier; a concatenation of 2010 Census state FIPS code, 2010 Census county FIPS code, 2010 Census census tract code and 2010 Census 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
BLOCK_POP_SHARE	Number	Share of total 2010 population in the county located in the census block
BLOCK_HU_SHARE	Number	Share of total 2010 housing units in the county located in the census block
_2015	Number	2015 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
_2020	Number	2020 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
_2025	Number	2025 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
_2030	Number	2030 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
_2035	Number	2035 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
_2040	Number	2040 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
BLOCK_PROJ_2015	Number	Estimated share of 2015 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
BLOCK_PROJ_2020	Number	Estimated share of 2020 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
BLOCK_PROJ_2025	Number	Estimated share of 2025 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
BLOCK_PROJ_2030	Number	Estimated share of 2030 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
BLOCK_PROJ_2035	Number	Estimated share of 2035 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
BLOCK_PROJ_2040	Number	Estimated share of 2040 population projection from 2014 Complete and Demographic Data Source by Woods and Poole
PS_TOPop	Number	Public Supply, total population served, in thousands
PS_WGWFr	Number	Public Supply, groundwater withdrawals, fresh, in gallons per person per day
PS_WGWSa	Number	Public Supply, groundwater withdrawals, saline, in gallons per person per day

Field	Type	Description
PS_WGWTo	Number	Public Supply, groundwater withdrawals, total, in gallons per person per day
PS_WSWFr	Number	Public Supply, surface-water withdrawals, fresh, in gallons per person per day
PS_WSWSa	Number	Public Supply, surface-water withdrawals, saline, in gallons per person per day
PS_WSWTo	Number	Public Supply, surface-water withdrawals, total, in gallons per person per day
PS_WFrTo	Number	Public Supply, total withdrawals, fresh, in gallons per person per day
PS_WSaTo	Number	Public Supply, total withdrawals, saline, in gallons per person per day
PS_Wtotl	Number	Public Supply, total withdrawals, total (fresh+saline), in gallons per person per day
DO_WGWFr	Number	Domestic, self-supplied groundwater withdrawals, fresh, in gallons per person per day
DO_WSWFr	Number	Domestic, self-supplied surface-water withdrawals, fresh, in gallons per person per day
DO_WFrTo	Number	Domestic, total self-supplied withdrawals, fresh, in gallons per person per day
DO_PSDel	Number	Domestic, deliveries from Public Supply, in gallons per person per day
DO_PSPCp	Number	Domestic, publicly supplied per capita use, in gallons/day [DO-PSDel/PS-TOPop]
DO_TOTAL	Number	#N/A
IN_WGWFr	Number	Industrial, self-supplied groundwater withdrawals, fresh, in gallons per person per day
IN_WGWSa	Number	Industrial, self-supplied groundwater withdrawals, saline, in gallons per person per day
IN_WGWTo	Number	Industrial, self-supplied groundwater withdrawals, total, in gallons per person per day
IN_WSWFr	Number	Industrial, self-supplied surface-water withdrawals, fresh, in gallons per person per day
IN_WSWSa	Number	Industrial, self-supplied surface-water withdrawals, saline, in gallons per person per day
IN_WSWTo	Number	Industrial, self-supplied surface-water withdrawals, total, in gallons per person per day
IN_WFrTo	Number	Industrial, self-supplied total withdrawals, fresh, in gallons per person per day
IN_WSaTo	Number	Industrial, self-supplied total withdrawals, saline, in gallons per person per day
IN_Wtotl	Number	Industrial, self-supplied total withdrawals, total (fresh+saline), in gallons per person per day

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

Field	Type	Description
MI_WGWSa	Number	Mining, groundwater withdrawals, saline, in gallons per person per day
MI_WGWTo	Number	Mining, groundwater withdrawals, total, in gallons per person per day
MI_WSWFr	Number	Mining, surface-water withdrawals, fresh, in gallons per person per day
MI_WSWSa	Number	Mining, surface-water withdrawals, saline, in gallons per person per day
MI_WSWTo	Number	Mining, surface-water withdrawals, total, in gallons per person per day
MI_WFrTo	Number	Mining, total withdrawals, fresh, in gallons per person per day
MI_WSaTo	Number	Mining, total withdrawals, saline, in gallons per person per day
MI_Wtotl	Number	Mining, total withdrawals, total (fresh+saline), in gallons per person per day
PT_WGWFr	Number	Thermoelectric, groundwater withdrawals, fresh, in gallons per person per day
PT_WGWSa	Number	Thermoelectric, groundwater withdrawals, saline, in gallons per person per day
PT_WGWTo	Number	Thermoelectric, groundwater withdrawals, total, in gallons per person per day
PT_WSWFr	Number	Thermoelectric, surface-water withdrawals, fresh, in gallons per person per day
PT_WSWSa	Number	Thermoelectric, surface-water withdrawals, saline, in gallons per person per day
PT_WSWTo	Number	Thermoelectric, surface-water withdrawals, total, in gallons per person per day
PT_WFrTo	Number	Thermoelectric, total withdrawals, fresh, in gallons per person per day
PT_WSaTo	Number	Thermoelectric, total withdrawals, saline, in gallons per person per day
PT_Wtotl	Number	Thermoelectric, total withdrawals, total (fresh+saline), in gallons per person per day
PT_Power	Number	Thermoelectric, power generated, in gigawatt-hours
PO_WGWFr	Number	Thermoelectric once-through, groundwater withdrawals, fresh, in gallons per person per day
PO_WGWSa	Number	Thermoelectric once-through, groundwater withdrawals, saline, in gallons per person per day
PO_WGWTo	Number	Thermoelectric once-through, groundwater withdrawals, total, in gallons per person per day
PO_WSWFr	Number	Thermoelectric once-through, surface-water withdrawals, fresh, in gallons per person per day

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

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

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

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

Field	Type	Description
Est_PO_WGWFr_2010	Number	2010 Block-level Thermoelectric once-through, groundwater withdrawals, fresh, in gallons per day
Est_PO_WGWSa_2010	Number	2010 Block-level Thermoelectric once-through, groundwater withdrawals, saline, in gallons per day
Est_PO_WGWTo_2010	Number	2010 Block-level Thermoelectric once-through, groundwater withdrawals, total, in gallons per day
Est_PO_WSWFr_2010	Number	2010 Block-level Thermoelectric once-through, surface-water withdrawals, fresh, in gallons per day
Est_PO_WSWSa_2010	Number	2010 Block-level Thermoelectric once-through, surface-water withdrawals, saline, in gallons per day
Est_PO_WSWTo_2010	Number	2010 Block-level Thermoelectric once-through, surface-water withdrawals, total, in gallons per day
Est_PO_WFrTo_2010	Number	2010 Block-level Thermoelectric once-through, total withdrawals, fresh, in gallons per day
Est_PO_WSaTo_2010	Number	2010 Block-level Thermoelectric once-through, total withdrawals, saline, in gallons per day
Est_PO_WTotl_2010	Number	2010 Block-level Thermoelectric once-through, total withdrawals, total, in gallons per day
Est_PO_Power_2010	Number	2010 Block-level Thermoelectric once-through, power generated, in gigawatt-hours
Est_PC_WGWFr_2010	Number	2010 Block-level Thermoelectric recirculation, groundwater withdrawals, fresh, in gallons per day
Est_PC_WGWSa_2010	Number	2010 Block-level Thermoelectric recirculation, groundwater withdrawals, saline, in gallons per day
Est_PC_WGWTo_2010	Number	2010 Block-level Thermoelectric recirculation, groundwater withdrawals, total, in gallons per day
Est_PC_WSWFr_2010	Number	2010 Block-level Thermoelectric recirculation, surface-water withdrawals, fresh, in gallons per day
Est_PC_WSWSa_2010	Number	2010 Block-level Thermoelectric recirculation, surface-water withdrawals, saline, in gallons per day
Est_PC_WSWTo_2010	Number	2010 Block-level Thermoelectric recirculation, surface-water withdrawals, total, in gallons per day
Est_PC_WFrTo_2010	Number	2010 Block-level Thermoelectric recirculation, total withdrawals, fresh, in gallons per day
Est_PC_WSaTo_2010	Number	2010 Block-level Thermoelectric recirculation, total withdrawals, saline, in gallons per day
Est_PC_WTotl_2010	Number	2010 Block-level Thermoelectric recirculation, total withdrawals, total (fresh+saline), in gallons per day
Est_PC_Power_2010	Number	2010 Block-level Thermoelectric recirculation, power generated, in gigawatt-hours
Est_TO_WGWFr_2010	Number	2010 Block-level Total groundwater withdrawals, fresh, in gallons per day

Field	Type	Description
Est_TO_WGWSa_2010	Number	2010 Block-level Total groundwater withdrawals, saline, in gallons per day
Est_TO_WGWTo_2010	Number	2010 Block-level Total groundwater withdrawals, total (fresh+saline), in gallons per day
Est_TO_WSWFr_2010	Number	2010 Block-level Total surface-water withdrawals, fresh, in gallons per day
Est_TO_WSWSa_2010	Number	2010 Block-level Total surface-water withdrawals, saline, in gallons per day
Est_TO_WSWTo_2010	Number	2010 Block-level Total surface-water withdrawals, total (fresh+saline), in gallons per day
Est_TO_WFrTo_2010	Number	2010 Block-level Total withdrawals, fresh, in gallons per day
Est_TO_WSaTo_2010	Number	2010 Block-level Total withdrawals, saline, in gallons per day
Est_TO_WTotl_2010	Number	2010 Block-level Total withdrawals, total (fresh+saline), in gallons per day
Proj_PS_WGWFr_2015	Number	2015 Block-level Public Supply, groundwater withdrawals, fresh, in gallons per day
Proj_PS_WGWSa_2015	Number	2015 Block-level Public Supply, groundwater withdrawals, saline, in gallons per day
Proj_PS_WGWTo_2015	Number	2015 Block-level Public Supply, groundwater withdrawals, total, in gallons per day
Proj_PS_WSWFr_2015	Number	2015 Block-level Public Supply, surface-water withdrawals, fresh, in gallons per day
Proj_PS_WSWSa_2015	Number	2015 Block-level Public Supply, surface-water withdrawals, saline, in gallons per day
Proj_PS_WSWTo_2015	Number	2015 Block-level Public Supply, surface-water withdrawals, total, in gallons per day
Proj_PS_WFrTo_2015	Number	2015 Block-level Public Supply, total withdrawals, fresh, in gallons per day
Proj_PS_WSaTo_2015	Number	2015 Block-level Public Supply, total withdrawals, saline, in gallons per day
Proj_PS_Wtotl_2015	Number	2015 Block-level Public Supply, total withdrawals, total (fresh+saline), in gallons per day
Proj_DO_WGWFr_2015	Number	2015 Block-level Domestic, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_DO_WSWFr_2015	Number	2015 Block-level Domestic, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_DO_WFrTo_2015	Number	2015 Block-level Domestic, total self-supplied withdrawals, fresh, in gallons per day
Proj_DO_PSDel_2015	Number	2015 Block-level Domestic, deliveries from Public Supply, in gallons per day
Proj_DO_TOTAL_2015	Number	2015 Block-level Domestic, publicly supplied per capita use, in gallons/day [DO-PSDel/PS-TOPop]

Field	Type	Description
Proj_IN_WGWFr_2015	Number	2015 Block-level Industrial, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_IN_WGWSa_2015	Number	2015 Block-level Industrial, self-supplied groundwater withdrawals, saline, in gallons per day
Proj_IN_WGWTo_2015	Number	2015 Block-level Industrial, self-supplied groundwater withdrawals, total, in gallons per day
Proj_IN_WSWFr_2015	Number	2015 Block-level Industrial, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_IN_WSWSa_2015	Number	2015 Block-level Industrial, self-supplied surface-water withdrawals, saline, in gallons per day
Proj_IN_WSWTo_2015	Number	2015 Block-level Industrial, self-supplied surface-water withdrawals, total, in gallons per day
Proj_IN_WFrTo_2015	Number	2015 Block-level Industrial, self-supplied total withdrawals, fresh, in gallons per day
Proj_IN_WSaTo_2015	Number	2015 Block-level Industrial, self-supplied total withdrawals, saline, in gallons per day
Proj_IN_Wtotl_2015	Number	2015 Block-level Industrial, self-supplied total withdrawals, total (fresh+saline), in gallons per day
Proj_IR_WGWFr_2015	Number	2015 Block-level Irrigation, groundwater withdrawals, fresh, in gallons per day
Proj_IR_WSWFr_2015	Number	2015 Block-level Irrigation, surface-water withdrawals, fresh, in gallons per day
Proj_IR_WFrTo_2015	Number	2015 Block-level Irrigation, total withdrawals, fresh, in gallons per day
Proj_IC_WGWFr_2015	Number	2015 Block-level Irrigation-Crop, groundwater withdrawals, fresh, in gallons per day
Proj_IC_WSWFr_2015	Number	2015 Block-level Irrigation-Crop, surface-water withdrawals, fresh, in gallons per day
Proj_IC_WFrTo_2015	Number	2015 Block-level Irrigation-Crop, total withdrawals, fresh, in gallons per day
Proj_IG_WGWFr_2015	Number	2015 Block-level Irrigation-Golf, groundwater withdrawals, fresh, in gallons per day
Proj_IG_WSWFr_2015	Number	2015 Block-level Irrigation-Golf, surface-water withdrawals, fresh, in gallons per day
Proj_IG_WFrTo_2015	Number	2015 Block-level Irrigation-Golf, total withdrawals, fresh, in gallons per day
Proj_LI_WGWFr_2015	Number	2015 Block-level Livestock, groundwater withdrawals, fresh, in gallons per day
Proj_LI_WSWFr_2015	Number	2015 Block-level Livestock, surface-water withdrawals, fresh, in gallons per day
Proj_LI_WFrTo_2015	Number	2015 Block-level Livestock, total withdrawals, fresh, in gallons per day
Proj_AQ_WGWFr_2015	Number	2015 Block-level Aquaculture, groundwater withdrawals, fresh, in gallons per day

Field	Type	Description
Proj_AQ_WGWSa_2015	Number	2015 Block-level Aquaculture, groundwater withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_2015	Number	2015 Block-level Aquaculture, groundwater withdrawals, total, in gallons per day
Proj_AQ_WSWFr_2015	Number	2015 Block-level Aquaculture, surface-water withdrawals, fresh, in gallons per day
Proj_AQ_WSWSa_2015	Number	2015 Block-level Aquaculture, surface-water withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_2015	Number	2015 Block-level Aquaculture, surface-water withdrawals, total, in gallons per day
Proj_AQ_WFrTo_2015	Number	2015 Block-level Aquaculture, total withdrawals, fresh, in gallons per day
Proj_AQ_WSaTo_2015	Number	2015 Block-level Aquaculture, total withdrawals, saline, in gallons per day
Proj_AQ_WTotl_2015	Number	2015 Block-level Aquaculture, total withdrawals, total (fresh+saline), in gallons per day
Proj_MI_WGWFr_2015	Number	2015 Block-level Mining, groundwater withdrawals, fresh, in gallons per day
Proj_MI_WGWSa_2015	Number	2015 Block-level Mining, groundwater withdrawals, saline, in gallons per day
Proj_MI_WGWTo_2015	Number	2015 Block-level Mining, groundwater withdrawals, total, in gallons per day
Proj_MI_WSWFr_2015	Number	2015 Block-level Mining, surface-water withdrawals, fresh, in gallons per day
Proj_MI_WSWSa_2015	Number	2015 Block-level Mining, surface-water withdrawals, saline, in gallons per day
Proj_MI_WSWTo_2015	Number	2015 Block-level Mining, surface-water withdrawals, total, in gallons per day
Proj_MI_WFrTo_2015	Number	2015 Block-level Mining, total withdrawals, fresh, in gallons per day
Proj_MI_WSaTo_2015	Number	2015 Block-level Mining, total withdrawals, saline, in gallons per day
Proj_MI_Wtotl_2015	Number	2015 Block-level Mining, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_WGWFr_2015	Number	2015 Block-level Thermoelectric, groundwater withdrawals, fresh, in gallons per day
Proj_PT_WGWSa_2015	Number	2015 Block-level Thermoelectric, groundwater withdrawals, saline, in gallons per day
Proj_PT_WGWTo_2015	Number	2015 Block-level Thermoelectric, groundwater withdrawals, total, in gallons per day
Proj_PT_WSWFr_2015	Number	2015 Block-level Thermoelectric, surface-water withdrawals, fresh, in gallons per day
Proj_PT_WSWSa_2015	Number	2015 Block-level Thermoelectric, surface-water withdrawals, saline, in gallons per day

Field	Type	Description
Proj_PT_WSWTo_2015	Number	2015 Block-level Thermoelectric, surface-water withdrawals, total, in gallons per day
Proj_PT_WFrTo_2015	Number	2015 Block-level Thermoelectric, total withdrawals, fresh, in gallons per day
Proj_PT_WSaTo_2015	Number	2015 Block-level Thermoelectric, total withdrawals, saline, in gallons per day
Proj_PT_Wtotl_2015	Number	2015 Block-level Thermoelectric, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_Power_2015	Number	2015 Block-level Thermoelectric, power generated, in gigawatt-hours
Proj_PO_WGWFr_2015	Number	2015 Block-level Thermoelectric once-through, groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_2015	Number	2015 Block-level Thermoelectric once-through, groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_2015	Number	2015 Block-level Thermoelectric once-through, groundwater withdrawals, total, in gallons per day
Proj_PO_WSWFr_2015	Number	2015 Block-level Thermoelectric once-through, surface-water withdrawals, fresh, in gallons per day
Proj_PO_WSWSa_2015	Number	2015 Block-level Thermoelectric once-through, surface-water withdrawals, saline, in gallons per day
Proj_PO_WSWTo_2015	Number	2015 Block-level Thermoelectric once-through, surface-water withdrawals, total, in gallons per day
Proj_PO_WFrTo_2015	Number	2015 Block-level Thermoelectric once-through, total withdrawals, fresh, in gallons per day
Proj_PO_WSaTo_2015	Number	2015 Block-level Thermoelectric once-through, total withdrawals, saline, in gallons per day
Proj_PO_WTotl_2015	Number	2015 Block-level Thermoelectric once-through, total withdrawals, total, in gallons per day
Proj_PO_Power_2015	Number	2015 Block-level Thermoelectric once-through, power generated, in gigawatt-hours
Proj_PC_WGWFr_2015	Number	2015 Block-level Thermoelectric recirculation, groundwater withdrawals, fresh, in gallons per day
Proj_PC_WGWSa_2015	Number	2015 Block-level Thermoelectric recirculation, groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_2015	Number	2015 Block-level Thermoelectric recirculation, groundwater withdrawals, total, in gallons per day
Proj_PC_WSWFr_2015	Number	2015 Block-level Thermoelectric recirculation, surface-water withdrawals, fresh, in gallons per day
Proj_PC_WSWSa_2015	Number	2015 Block-level Thermoelectric recirculation, surface-water withdrawals, saline, in gallons per day
Proj_PC_WSWTo_2015	Number	2015 Block-level Thermoelectric recirculation, surface-water withdrawals, total, in gallons per day

Field	Type	Description
Proj_PC_WFrTo_2015	Number	2015 Block-level Thermoelectric recirculation, total withdrawals, fresh, in gallons per day
Proj_PC_WSaTo_2015	Number	2015 Block-level Thermoelectric recirculation, total withdrawals, saline, in gallons per day
Proj_PC_WTotl_2015	Number	2015 Block-level Thermoelectric recirculation, total withdrawals, total (fresh+saline), in gallons per day
Proj_PC_Power_2015	Number	2015 Block-level Thermoelectric recirculation, power generated, in gigawatt-hours
Proj_TO_WGWFr_2015	Number	2015 Block-level Total groundwater withdrawals, fresh, in gallons per day
Proj_TO_WGWSa_2015	Number	2015 Block-level Total groundwater withdrawals, saline, in gallons per day
Proj_TO_WGWTo_2015	Number	2015 Block-level Total groundwater withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WSWFr_2015	Number	2015 Block-level Total surface-water withdrawals, fresh, in gallons per day
Proj_TO_WSWSa_2015	Number	2015 Block-level Total surface-water withdrawals, saline, in gallons per day
Proj_TO_WSWTo_2015	Number	2015 Block-level Total surface-water withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WFrTo_2015	Number	2015 Block-level Total withdrawals, fresh, in gallons per day
Proj_TO_WSaTo_2015	Number	2015 Block-level Total withdrawals, saline, in gallons per day
Proj_TO_WTotl_2015	Number	2015 Block-level Total withdrawals, total (fresh+saline), in gallons per day
Proj_PS_WGWFr_2020	Number	2020 Block-level Public Supply, groundwater withdrawals, fresh, in gallons per day
Proj_PS_WGWSa_2020	Number	2020 Block-level Public Supply, groundwater withdrawals, saline, in gallons per day
Proj_PS_WGWTo_2020	Number	2020 Block-level Public Supply, groundwater withdrawals, total, in gallons per day
Proj_PS_WSWFr_2020	Number	2020 Block-level Public Supply, surface-water withdrawals, fresh, in gallons per day
Proj_PS_WSWSa_2020	Number	2020 Block-level Public Supply, surface-water withdrawals, saline, in gallons per day
Proj_PS_WSWTo_2020	Number	2020 Block-level Public Supply, surface-water withdrawals, total, in gallons per day
Proj_PS_WFrTo_2020	Number	2020 Block-level Public Supply, total withdrawals, fresh, in gallons per day
Proj_PS_WSaTo_2020	Number	2020 Block-level Public Supply, total withdrawals, saline, in gallons per day
Proj_PS_Wtotl_2020	Number	2020 Block-level Public Supply, total withdrawals, total (fresh+saline), in gallons per day

Field	Type	Description
Proj_DO_WGWFr_2020	Number	2020 Block-level Domestic, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_DO_WSWFr_2020	Number	2020 Block-level Domestic, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_DO_WFrTo_2020	Number	2020 Block-level Domestic, total self-supplied withdrawals, fresh, in gallons per day
Proj_DO_PSDel_2020	Number	2020 Block-level Domestic, deliveries from Public Supply, in gallons per day
Proj_DO_TOTAL_2020	Number	2020 Block-level Domestic, publicly supplied per capita use, in gallons/day [DO-PSDel/PS-TOPop]
Proj_IN_WGWFr_2020	Number	2020 Block-level Industrial, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_IN_WGWSa_2020	Number	2020 Block-level Industrial, self-supplied groundwater withdrawals, saline, in gallons per day
Proj_IN_WGWTo_2020	Number	2020 Block-level Industrial, self-supplied groundwater withdrawals, total, in gallons per day
Proj_IN_WSWFr_2020	Number	2020 Block-level Industrial, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_IN_WSWSa_2020	Number	2020 Block-level Industrial, self-supplied surface-water withdrawals, saline, in gallons per day
Proj_IN_WSWTo_2020	Number	2020 Block-level Industrial, self-supplied surface-water withdrawals, total, in gallons per day
Proj_IN_WFrTo_2020	Number	2020 Block-level Industrial, self-supplied total withdrawals, fresh, in gallons per day
Proj_IN_WSaTo_2020	Number	2020 Block-level Industrial, self-supplied total withdrawals, saline, in gallons per day
Proj_IN_Wtotl_2020	Number	2020 Block-level Industrial, self-supplied total withdrawals, total (fresh+saline), in gallons per day
Proj_IR_WGWFr_2020	Number	2020 Block-level Irrigation, groundwater withdrawals, fresh, in gallons per day
Proj_IR_WSWFr_2020	Number	2020 Block-level Irrigation, surface-water withdrawals, fresh, in gallons per day
Proj_IR_WFrTo_2020	Number	2020 Block-level Irrigation, total withdrawals, fresh, in gallons per day
Proj_IC_WGWFr_2020	Number	2020 Block-level Irrigation-Crop, groundwater withdrawals, fresh, in gallons per day
Proj_IC_WSWFr_2020	Number	2020 Block-level Irrigation-Crop, surface-water withdrawals, fresh, in gallons per day
Proj_IC_WFrTo_2020	Number	2020 Block-level Irrigation-Crop, total withdrawals, fresh, in gallons per day
Proj_IG_WGWFr_2020	Number	2020 Block-level Irrigation-Golf, groundwater withdrawals, fresh, in gallons per day
Proj_IG_WSWFr_2020	Number	2020 Block-level Irrigation-Golf, surface-water withdrawals, fresh, in gallons per day

Field	Type	Description
Proj_IG_WFrTo_2020	Number	2020 Block-level Irrigation-Golf, total withdrawals, fresh, in gallons per day
Proj_LI_WGWFr_2020	Number	2020 Block-level Livestock, groundwater withdrawals, fresh, in gallons per day
Proj_LI_WSWFr_2020	Number	2020 Block-level Livestock, surface-water withdrawals, fresh, in gallons per day
Proj_LI_WFrTo_2020	Number	2020 Block-level Livestock, total withdrawals, fresh, in gallons per day
Proj_AQ_WGWFr_2020	Number	2020 Block-level Aquaculture, groundwater withdrawals, fresh, in gallons per day
Proj_AQ_WGWSa_2020	Number	2020 Block-level Aquaculture, groundwater withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_2020	Number	2020 Block-level Aquaculture, groundwater withdrawals, total, in gallons per day
Proj_AQ_WSWFr_2020	Number	2020 Block-level Aquaculture, surface-water withdrawals, fresh, in gallons per day
Proj_AQ_WSWSa_2020	Number	2020 Block-level Aquaculture, surface-water withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_2020	Number	2020 Block-level Aquaculture, surface-water withdrawals, total, in gallons per day
Proj_AQ_WFrTo_2020	Number	2020 Block-level Aquaculture, total withdrawals, fresh, in gallons per day
Proj_AQ_WSaTo_2020	Number	2020 Block-level Aquaculture, total withdrawals, saline, in gallons per day
Proj_AQ_WTotl_2020	Number	2020 Block-level Aquaculture, total withdrawals, total (fresh+saline), in gallons per day
Proj_MI_WGWFr_2020	Number	2020 Block-level Mining, groundwater withdrawals, fresh, in gallons per day
Proj_MI_WGWSa_2020	Number	2020 Block-level Mining, groundwater withdrawals, saline, in gallons per day
Proj_MI_WGWTo_2020	Number	2020 Block-level Mining, groundwater withdrawals, total, in gallons per day
Proj_MI_WSWFr_2020	Number	2020 Block-level Mining, surface-water withdrawals, fresh, in gallons per day
Proj_MI_WSWSa_2020	Number	2020 Block-level Mining, surface-water withdrawals, saline, in gallons per day
Proj_MI_WSWTo_2020	Number	2020 Block-level Mining, surface-water withdrawals, total, in gallons per day
Proj_MI_WFrTo_2020	Number	2020 Block-level Mining, total withdrawals, fresh, in gallons per day
Proj_MI_WSaTo_2020	Number	2020 Block-level Mining, total withdrawals, saline, in gallons per day
Proj_MI_Wtotl_2020	Number	2020 Block-level Mining, total withdrawals, total (fresh+saline), in gallons per day

Field	Type	Description
Proj_PT_WGWFr_2020	Number	2020 Block-level Thermoelectric, groundwater withdrawals, fresh, in gallons per day
Proj_PT_WGWSa_2020	Number	2020 Block-level Thermoelectric, groundwater withdrawals, saline, in gallons per day
Proj_PT_WGWTo_2020	Number	2020 Block-level Thermoelectric, groundwater withdrawals, total, in gallons per day
Proj_PT_WSWFr_2020	Number	2020 Block-level Thermoelectric, surface-water withdrawals, fresh, in gallons per day
Proj_PT_WSWSa_2020	Number	2020 Block-level Thermoelectric, surface-water withdrawals, saline, in gallons per day
Proj_PT_WSWTo_2020	Number	2020 Block-level Thermoelectric, surface-water withdrawals, total, in gallons per day
Proj_PT_WFrTo_2020	Number	2020 Block-level Thermoelectric, total withdrawals, fresh, in gallons per day
Proj_PT_WSaTo_2020	Number	2020 Block-level Thermoelectric, total withdrawals, saline, in gallons per day
Proj_PT_Wtotl_2020	Number	2020 Block-level Thermoelectric, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_Power_2020	Number	2020 Block-level Thermoelectric, power generated, in gigawatt-hours
Proj_PO_WGWFr_2020	Number	2020 Block-level Thermoelectric once-through, groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_2020	Number	2020 Block-level Thermoelectric once-through, groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_2020	Number	2020 Block-level Thermoelectric once-through, groundwater withdrawals, total, in gallons per day
Proj_PO_WSWFr_2020	Number	2020 Block-level Thermoelectric once-through, surface-water withdrawals, fresh, in gallons per day
Proj_PO_WSWSa_2020	Number	2020 Block-level Thermoelectric once-through, surface-water withdrawals, saline, in gallons per day
Proj_PO_WSWTo_2020	Number	2020 Block-level Thermoelectric once-through, surface-water withdrawals, total, in gallons per day
Proj_PO_WFrTo_2020	Number	2020 Block-level Thermoelectric once-through, total withdrawals, fresh, in gallons per day
Proj_PO_WSaTo_2020	Number	2020 Block-level Thermoelectric once-through, total withdrawals, saline, in gallons per day
Proj_PO_WTotl_2020	Number	2020 Block-level Thermoelectric once-through, total withdrawals, total, in gallons per day
Proj_PO_Power_2020	Number	2020 Block-level Thermoelectric once-through, power generated, in gigawatt-hours
Proj_PC_WGWFr_2020	Number	2020 Block-level Thermoelectric recirculation, groundwater withdrawals, fresh, in gallons per day

Field	Type	Description
Proj_PC_WGWSa_2020	Number	2020 Block-level Thermoelectric recirculation, groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_2020	Number	2020 Block-level Thermoelectric recirculation, groundwater withdrawals, total, in gallons per day
Proj_PC_WSWFr_2020	Number	2020 Block-level Thermoelectric recirculation, surface-water withdrawals, fresh, in gallons per day
Proj_PC_WSWSa_2020	Number	2020 Block-level Thermoelectric recirculation, surface-water withdrawals, saline, in gallons per day
Proj_PC_WSWTo_2020	Number	2020 Block-level Thermoelectric recirculation, surface-water withdrawals, total, in gallons per day
Proj_PC_WFrTo_2020	Number	2020 Block-level Thermoelectric recirculation, total withdrawals, fresh, in gallons per day
Proj_PC_WSaTo_2020	Number	2020 Block-level Thermoelectric recirculation, total withdrawals, saline, in gallons per day
Proj_PC_WTotl_2020	Number	2020 Block-level Thermoelectric recirculation, total withdrawals, total (fresh+saline), in gallons per day
Proj_PC_Power_2020	Number	2020 Block-level Thermoelectric recirculation, power generated, in gigawatt-hours
Proj_TO_WGWFr_2020	Number	2020 Block-level Total groundwater withdrawals, fresh, in gallons per day
Proj_TO_WGWSa_2020	Number	2020 Block-level Total groundwater withdrawals, saline, in gallons per day
Proj_TO_WGWTo_2020	Number	2020 Block-level Total groundwater withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WSWFr_2020	Number	2020 Block-level Total surface-water withdrawals, fresh, in gallons per day
Proj_TO_WSWSa_2020	Number	2020 Block-level Total surface-water withdrawals, saline, in gallons per day
Proj_TO_WSWTo_2020	Number	2020 Block-level Total surface-water withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WFrTo_2020	Number	2020 Block-level Total withdrawals, fresh, in gallons per day
Proj_TO_WSaTo_2020	Number	2020 Block-level Total withdrawals, saline, in gallons per day
Proj_TO_WTotl_2020	Number	2020 Block-level Total withdrawals, total (fresh+saline), in gallons per day
Proj_PS_WGWFr_2025	Number	2025 Block-level Public Supply, groundwater withdrawals, fresh, in gallons per day
Proj_PS_WGWSa_2025	Number	2025 Block-level Public Supply, groundwater withdrawals, saline, in gallons per day
Proj_PS_WGWTo_2025	Number	2025 Block-level Public Supply, groundwater withdrawals, total, in gallons per day

Field	Type	Description
Proj_PS_WSWFr_2025	Number	2025 Block-level Public Supply, surface-water withdrawals, fresh, in gallons per day
Proj_PS_WSWSa_2025	Number	2025 Block-level Public Supply, surface-water withdrawals, saline, in gallons per day
Proj_PS_WSWTo_2025	Number	2025 Block-level Public Supply, surface-water withdrawals, total, in gallons per day
Proj_PS_WFrTo_2025	Number	2025 Block-level Public Supply, total withdrawals, fresh, in gallons per day
Proj_PS_WSaTo_2025	Number	2025 Block-level Public Supply, total withdrawals, saline, in gallons per day
Proj_PS_Wtotl_2025	Number	2025 Block-level Public Supply, total withdrawals, total (fresh+saline), in gallons per day
Proj_DO_WGWFr_2025	Number	2025 Block-level Domestic, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_DO_WSWFr_2025	Number	2025 Block-level Domestic, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_DO_WFrTo_2025	Number	2025 Block-level Domestic, total self-supplied withdrawals, fresh, in gallons per day
Proj_DO_PSDel_2025	Number	2025 Block-level Domestic, deliveries from Public Supply, in gallons per day
Proj_DO_TOTAL_2025	Number	2025 Block-level Domestic, publicly supplied per capita use, in gallons/day [DO-PSDel/PS-TOPop]
Proj_IN_WGWFr_2025	Number	2025 Block-level Industrial, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_IN_WGWSa_2025	Number	2025 Block-level Industrial, self-supplied groundwater withdrawals, saline, in gallons per day
Proj_IN_WGWTo_2025	Number	2025 Block-level Industrial, self-supplied groundwater withdrawals, total, in gallons per day
Proj_IN_WSWFr_2025	Number	2025 Block-level Industrial, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_IN_WSWSa_2025	Number	2025 Block-level Industrial, self-supplied surface-water withdrawals, saline, in gallons per day
Proj_IN_WSWTo_2025	Number	2025 Block-level Industrial, self-supplied surface-water withdrawals, total, in gallons per day
Proj_IN_WFrTo_2025	Number	2025 Block-level Industrial, self-supplied total withdrawals, fresh, in gallons per day
Proj_IN_WSaTo_2025	Number	2025 Block-level Industrial, self-supplied total withdrawals, saline, in gallons per day
Proj_IN_Wtotl_2025	Number	2025 Block-level Industrial, self-supplied total withdrawals, total (fresh+saline), in gallons per day
Proj_IR_WGWFr_2025	Number	2025 Block-level Irrigation, groundwater withdrawals, fresh, in gallons per day
Proj_IR_WSWFr_2025	Number	2025 Block-level Irrigation, surface-water withdrawals, fresh, in gallons per day

Field	Type	Description
Proj_IR_WFrTo_2025	Number	2025 Block-level Irrigation, total withdrawals, fresh, in gallons per day
Proj_IC_WGWFr_2025	Number	2025 Block-level Irrigation-Crop, groundwater withdrawals, fresh, in gallons per day
Proj_IC_WSWFr_2025	Number	2025 Block-level Irrigation-Crop, surface-water withdrawals, fresh, in gallons per day
Proj_IC_WFrTo_2025	Number	2025 Block-level Irrigation-Crop, total withdrawals, fresh, in gallons per day
Proj_IG_WGWFr_2025	Number	2025 Block-level Irrigation-Golf, groundwater withdrawals, fresh, in gallons per day
Proj_IG_WSWFr_2025	Number	2025 Block-level Irrigation-Golf, surface-water withdrawals, fresh, in gallons per day
Proj_IG_WFrTo_2025	Number	2025 Block-level Irrigation-Golf, total withdrawals, fresh, in gallons per day
Proj_LI_WGWFr_2025	Number	2025 Block-level Livestock, groundwater withdrawals, fresh, in gallons per day
Proj_LI_WSWFr_2025	Number	2025 Block-level Livestock, surface-water withdrawals, fresh, in gallons per day
Proj_LI_WFrTo_2025	Number	2025 Block-level Livestock, total withdrawals, fresh, in gallons per day
Proj_AQ_WGWFr_2025	Number	2025 Block-level Aquaculture, groundwater withdrawals, fresh, in gallons per day
Proj_AQ_WGWSa_2025	Number	2025 Block-level Aquaculture, groundwater withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_2025	Number	2025 Block-level Aquaculture, groundwater withdrawals, total, in gallons per day
Proj_AQ_WSWFr_2025	Number	2025 Block-level Aquaculture, surface-water withdrawals, fresh, in gallons per day
Proj_AQ_WSWSa_2025	Number	2025 Block-level Aquaculture, surface-water withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_2025	Number	2025 Block-level Aquaculture, surface-water withdrawals, total, in gallons per day
Proj_AQ_WFrTo_2025	Number	2025 Block-level Aquaculture, total withdrawals, fresh, in gallons per day
Proj_AQ_WSaTo_2025	Number	2025 Block-level Aquaculture, total withdrawals, saline, in gallons per day
Proj_AQ_WTotl_2025	Number	2025 Block-level Aquaculture, total withdrawals, total (fresh+saline), in gallons per day
Proj_MI_WGWFr_2025	Number	2025 Block-level Mining, groundwater withdrawals, fresh, in gallons per day
Proj_MI_WGWSa_2025	Number	2025 Block-level Mining, groundwater withdrawals, saline, in gallons per day
Proj_MI_WGWTo_2025	Number	2025 Block-level Mining, groundwater withdrawals, total, in gallons per day

Field	Type	Description
Proj_MI_WSWFr_2025	Number	2025 Block-level Mining, surface-water withdrawals, fresh, in gallons per day
Proj_MI_WSWSa_2025	Number	2025 Block-level Mining, surface-water withdrawals, saline, in gallons per day
Proj_MI_WSWTo_2025	Number	2025 Block-level Mining, surface-water withdrawals, total, in gallons per day
Proj_MI_WFrTo_2025	Number	2025 Block-level Mining, total withdrawals, fresh, in gallons per day
Proj_MI_WSaTo_2025	Number	2025 Block-level Mining, total withdrawals, saline, in gallons per day
Proj_MI_Wtotl_2025	Number	2025 Block-level Mining, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_WGWFr_2025	Number	2025 Block-level Thermoelectric, groundwater withdrawals, fresh, in gallons per day
Proj_PT_WGWSa_2025	Number	2025 Block-level Thermoelectric, groundwater withdrawals, saline, in gallons per day
Proj_PT_WGWTo_2025	Number	2025 Block-level Thermoelectric, groundwater withdrawals, total, in gallons per day
Proj_PT_WSWFr_2025	Number	2025 Block-level Thermoelectric, surface-water withdrawals, fresh, in gallons per day
Proj_PT_WSWSa_2025	Number	2025 Block-level Thermoelectric, surface-water withdrawals, saline, in gallons per day
Proj_PT_WSWTo_2025	Number	2025 Block-level Thermoelectric, surface-water withdrawals, total, in gallons per day
Proj_PT_WFrTo_2025	Number	2025 Block-level Thermoelectric, total withdrawals, fresh, in gallons per day
Proj_PT_WSaTo_2025	Number	2025 Block-level Thermoelectric, total withdrawals, saline, in gallons per day
Proj_PT_Wtotl_2025	Number	2025 Block-level Thermoelectric, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_Power_2025	Number	2025 Block-level Thermoelectric, power generated, in gigawatt-hours
Proj_PO_WGWFr_2025	Number	2025 Block-level Thermoelectric once-through, groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_2025	Number	2025 Block-level Thermoelectric once-through, groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_2025	Number	2025 Block-level Thermoelectric once-through, groundwater withdrawals, total, in gallons per day
Proj_PO_WSWFr_2025	Number	2025 Block-level Thermoelectric once-through, surface-water withdrawals, fresh, in gallons per day
Proj_PO_WSWSa_2025	Number	2025 Block-level Thermoelectric once-through, surface-water withdrawals, saline, in gallons per day

Field	Type	Description
Proj_PO_WSWTo_2025	Number	2025 Block-level Thermoelectric once-through, surface-water withdrawals, total, in gallons per day
Proj_PO_WFrTo_2025	Number	2025 Block-level Thermoelectric once-through, total withdrawals, fresh, in gallons per day
Proj_PO_WSaTo_2025	Number	2025 Block-level Thermoelectric once-through, total withdrawals, saline, in gallons per day
Proj_PO_WTotl_2025	Number	2025 Block-level Thermoelectric once-through, total withdrawals, total, in gallons per day
Proj_PO_Power_2025	Number	2025 Block-level Thermoelectric once-through, power generated, in gigawatt-hours
Proj_PC_WGWFr_2025	Number	2025 Block-level Thermoelectric recirculation, groundwater withdrawals, fresh, in gallons per day
Proj_PC_WGWSa_2025	Number	2025 Block-level Thermoelectric recirculation, groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_2025	Number	2025 Block-level Thermoelectric recirculation, groundwater withdrawals, total, in gallons per day
Proj_PC_WSWFr_2025	Number	2025 Block-level Thermoelectric recirculation, surface-water withdrawals, fresh, in gallons per day
Proj_PC_WSWSa_2025	Number	2025 Block-level Thermoelectric recirculation, surface-water withdrawals, saline, in gallons per day
Proj_PC_WSWTo_2025	Number	2025 Block-level Thermoelectric recirculation, surface-water withdrawals, total, in gallons per day
Proj_PC_WFrTo_2025	Number	2025 Block-level Thermoelectric recirculation, total withdrawals, fresh, in gallons per day
Proj_PC_WSaTo_2025	Number	2025 Block-level Thermoelectric recirculation, total withdrawals, saline, in gallons per day
Proj_PC_WTotl_2025	Number	2025 Block-level Thermoelectric recirculation, total withdrawals, total (fresh+saline), in gallons per day
Proj_PC_Power_2025	Number	2025 Block-level Thermoelectric recirculation, power generated, in gigawatt-hours
Proj_TO_WGWFr_2025	Number	2025 Block-level Total groundwater withdrawals, fresh, in gallons per day
Proj_TO_WGWSa_2025	Number	2025 Block-level Total groundwater withdrawals, saline, in gallons per day
Proj_TO_WGWTo_2025	Number	2025 Block-level Total groundwater withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WSWFr_2025	Number	2025 Block-level Total surface-water withdrawals, fresh, in gallons per day
Proj_TO_WSWSa_2025	Number	2025 Block-level Total surface-water withdrawals, saline, in gallons per day
Proj_TO_WSWTo_2025	Number	2025 Block-level Total surface-water withdrawals, total (fresh+saline), in gallons per day

Field	Type	Description
Proj_TO_WFrTo_2025	Number	2025 Block-level Total withdrawals, fresh, in gallons per day
Proj_TO_WSaTo_2025	Number	2025 Block-level Total withdrawals, saline, in gallons per day
Proj_TO_WTotl_2025	Number	2025 Block-level Total withdrawals, total (fresh+saline), in gallons per day
Proj_PS_WGWFr_2030	Number	2030 Block-level Public Supply, groundwater withdrawals, fresh, in gallons per day
Proj_PS_WGWSa_2030	Number	2030 Block-level Public Supply, groundwater withdrawals, saline, in gallons per day
Proj_PS_WGWTo_2030	Number	2030 Block-level Public Supply, groundwater withdrawals, total, in gallons per day
Proj_PS_WSWFr_2030	Number	2030 Block-level Public Supply, surface-water withdrawals, fresh, in gallons per day
Proj_PS_WSWSa_2030	Number	2030 Block-level Public Supply, surface-water withdrawals, saline, in gallons per day
Proj_PS_WSWTo_2030	Number	2030 Block-level Public Supply, surface-water withdrawals, total, in gallons per day
Proj_PS_WFrTo_2030	Number	2030 Block-level Public Supply, total withdrawals, fresh, in gallons per day
Proj_PS_WSaTo_2030	Number	2030 Block-level Public Supply, total withdrawals, saline, in gallons per day
Proj_PS_Wtotl_2030	Number	2030 Block-level Public Supply, total withdrawals, total (fresh+saline), in gallons per day
Proj_DO_WGWFr_2030	Number	2030 Block-level Domestic, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_DO_WSWFr_2030	Number	2030 Block-level Domestic, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_DO_WFrTo_2030	Number	2030 Block-level Domestic, total self-supplied withdrawals, fresh, in gallons per day
Proj_DO_PSDel_2030	Number	2030 Block-level Domestic, deliveries from Public Supply, in gallons per day
Proj_DO_TOTAL_2030	Number	2030 Block-level Domestic, publicly supplied per capita use, in gallons/day [DO-PSDel/PS-TOPop]
Proj_IN_WGWFr_2030	Number	2030 Block-level Industrial, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_IN_WGWSa_2030	Number	2030 Block-level Industrial, self-supplied groundwater withdrawals, saline, in gallons per day
Proj_IN_WGWTo_2030	Number	2030 Block-level Industrial, self-supplied groundwater withdrawals, total, in gallons per day
Proj_IN_WSWFr_2030	Number	2030 Block-level Industrial, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_IN_WSWSa_2030	Number	2030 Block-level Industrial, self-supplied surface-water withdrawals, saline, in gallons per day

Field	Type	Description
Proj_IN_WSWTo_2030	Number	2030 Block-level Industrial, self-supplied surface-water withdrawals, total, in gallons per day
Proj_IN_WFrTo_2030	Number	2030 Block-level Industrial, self-supplied total withdrawals, fresh, in gallons per day
Proj_IN_WSaTo_2030	Number	2030 Block-level Industrial, self-supplied total withdrawals, saline, in gallons per day
Proj_IN_Wtotl_2030	Number	2030 Block-level Industrial, self-supplied total withdrawals, total (fresh+saline), in gallons per day
Proj_IR_WGWFr_2030	Number	2030 Block-level Irrigation, groundwater withdrawals, fresh, in gallons per day
Proj_IR_WSWFr_2030	Number	2030 Block-level Irrigation, surface-water withdrawals, fresh, in gallons per day
Proj_IR_WFrTo_2030	Number	2030 Block-level Irrigation, total withdrawals, fresh, in gallons per day
Proj_IC_WGWFr_2030	Number	2030 Block-level Irrigation-Crop, groundwater withdrawals, fresh, in gallons per day
Proj_IC_WSWFr_2030	Number	2030 Block-level Irrigation-Crop, surface-water withdrawals, fresh, in gallons per day
Proj_IC_WFrTo_2030	Number	2030 Block-level Irrigation-Crop, total withdrawals, fresh, in gallons per day
Proj_IG_WGWFr_2030	Number	2030 Block-level Irrigation-Golf, groundwater withdrawals, fresh, in gallons per day
Proj_IG_WSWFr_2030	Number	2030 Block-level Irrigation-Golf, surface-water withdrawals, fresh, in gallons per day
Proj_IG_WFrTo_2030	Number	2030 Block-level Irrigation-Golf, total withdrawals, fresh, in gallons per day
Proj_LI_WGWFr_2030	Number	2030 Block-level Livestock, groundwater withdrawals, fresh, in gallons per day
Proj_LI_WSWFr_2030	Number	2030 Block-level Livestock, surface-water withdrawals, fresh, in gallons per day
Proj_LI_WFrTo_2030	Number	2030 Block-level Livestock, total withdrawals, fresh, in gallons per day
Proj_AQ_WGWFr_2030	Number	2030 Block-level Aquaculture, groundwater withdrawals, fresh, in gallons per day
Proj_AQ_WGWSa_2030	Number	2030 Block-level Aquaculture, groundwater withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_2030	Number	2030 Block-level Aquaculture, groundwater withdrawals, total, in gallons per day
Proj_AQ_WSWFr_2030	Number	2030 Block-level Aquaculture, surface-water withdrawals, fresh, in gallons per day
Proj_AQ_WSWSa_2030	Number	2030 Block-level Aquaculture, surface-water withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_2030	Number	2030 Block-level Aquaculture, surface-water withdrawals, total, in gallons per day

Field	Type	Description
Proj_AQ_WFrTo_2030	Number	2030 Block-level Aquaculture, total withdrawals, fresh, in gallons per day
Proj_AQ_WSaTo_2030	Number	2030 Block-level Aquaculture, total withdrawals, saline, in gallons per day
Proj_AQ_WTotl_2030	Number	2030 Block-level Aquaculture, total withdrawals, total (fresh+saline), in gallons per day
Proj_MI_WGWFr_2030	Number	2030 Block-level Mining, groundwater withdrawals, fresh, in gallons per day
Proj_MI_WGWSa_2030	Number	2030 Block-level Mining, groundwater withdrawals, saline, in gallons per day
Proj_MI_WGWTo_2030	Number	2030 Block-level Mining, groundwater withdrawals, total, in gallons per day
Proj_MI_WSWFr_2030	Number	2030 Block-level Mining, surface-water withdrawals, fresh, in gallons per day
Proj_MI_WSWSa_2030	Number	2030 Block-level Mining, surface-water withdrawals, saline, in gallons per day
Proj_MI_WSWTo_2030	Number	2030 Block-level Mining, surface-water withdrawals, total, in gallons per day
Proj_MI_WFrTo_2030	Number	2030 Block-level Mining, total withdrawals, fresh, in gallons per day
Proj_MI_WSaTo_2030	Number	2030 Block-level Mining, total withdrawals, saline, in gallons per day
Proj_MI_Wtotl_2030	Number	2030 Block-level Mining, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_WGWFr_2030	Number	2030 Block-level Thermoelectric, groundwater withdrawals, fresh, in gallons per day
Proj_PT_WGWSa_2030	Number	2030 Block-level Thermoelectric, groundwater withdrawals, saline, in gallons per day
Proj_PT_WGWTo_2030	Number	2030 Block-level Thermoelectric, groundwater withdrawals, total, in gallons per day
Proj_PT_WSWFr_2030	Number	2030 Block-level Thermoelectric, surface-water withdrawals, fresh, in gallons per day
Proj_PT_WSWSa_2030	Number	2030 Block-level Thermoelectric, surface-water withdrawals, saline, in gallons per day
Proj_PT_WSWTo_2030	Number	2030 Block-level Thermoelectric, surface-water withdrawals, total, in gallons per day
Proj_PT_WFrTo_2030	Number	2030 Block-level Thermoelectric, total withdrawals, fresh, in gallons per day
Proj_PT_WSaTo_2030	Number	2030 Block-level Thermoelectric, total withdrawals, saline, in gallons per day
Proj_PT_Wtotl_2030	Number	2030 Block-level Thermoelectric, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_Power_2030	Number	2030 Block-level Thermoelectric, power generated, in gigawatt-hours

Field	Type	Description
Proj_PO_WGWFr_2030	Number	2030 Block-level Thermoelectric once-through, groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_2030	Number	2030 Block-level Thermoelectric once-through, groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_2030	Number	2030 Block-level Thermoelectric once-through, groundwater withdrawals, total, in gallons per day
Proj_PO_WSWFr_2030	Number	2030 Block-level Thermoelectric once-through, surface-water withdrawals, fresh, in gallons per day
Proj_PO_WSWSa_2030	Number	2030 Block-level Thermoelectric once-through, surface-water withdrawals, saline, in gallons per day
Proj_PO_WSWTo_2030	Number	2030 Block-level Thermoelectric once-through, surface-water withdrawals, total, in gallons per day
Proj_PO_WFrTo_2030	Number	2030 Block-level Thermoelectric once-through, total withdrawals, fresh, in gallons per day
Proj_PO_WSaTo_2030	Number	2030 Block-level Thermoelectric once-through, total withdrawals, saline, in gallons per day
Proj_PO_WTotl_2030	Number	2030 Block-level Thermoelectric once-through, total withdrawals, total, in gallons per day
Proj_PO_Power_2030	Number	2030 Block-level Thermoelectric once-through, power generated, in gigawatt-hours
Proj_PC_WGWFr_2030	Number	2030 Block-level Thermoelectric recirculation, groundwater withdrawals, fresh, in gallons per day
Proj_PC_WGWSa_2030	Number	2030 Block-level Thermoelectric recirculation, groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_2030	Number	2030 Block-level Thermoelectric recirculation, groundwater withdrawals, total, in gallons per day
Proj_PC_WSWFr_2030	Number	2030 Block-level Thermoelectric recirculation, surface-water withdrawals, fresh, in gallons per day
Proj_PC_WSWSa_2030	Number	2030 Block-level Thermoelectric recirculation, surface-water withdrawals, saline, in gallons per day
Proj_PC_WSWTo_2030	Number	2030 Block-level Thermoelectric recirculation, surface-water withdrawals, total, in gallons per day
Proj_PC_WFrTo_2030	Number	2030 Block-level Thermoelectric recirculation, total withdrawals, fresh, in gallons per day
Proj_PC_WSaTo_2030	Number	2030 Block-level Thermoelectric recirculation, total withdrawals, saline, in gallons per day
Proj_PC_WTotl_2030	Number	2030 Block-level Thermoelectric recirculation, total withdrawals, total (fresh+saline), in gallons per day
Proj_PC_Power_2030	Number	2030 Block-level Thermoelectric recirculation, power generated, in gigawatt-hours
Proj_TO_WGWFr_2030	Number	2030 Block-level Total groundwater withdrawals, fresh, in gallons per day

Field	Type	Description
Proj_TO_WGWSa_2030	Number	2030 Block-level Total groundwater withdrawals, saline, in gallons per day
Proj_TO_WGWTo_2030	Number	2030 Block-level Total groundwater withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WSWFr_2030	Number	2030 Block-level Total surface-water withdrawals, fresh, in gallons per day
Proj_TO_WSWSa_2030	Number	2030 Block-level Total surface-water withdrawals, saline, in gallons per day
Proj_TO_WSWTo_2030	Number	2030 Block-level Total surface-water withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WFrTo_2030	Number	2030 Block-level Total withdrawals, fresh, in gallons per day
Proj_TO_WSaTo_2030	Number	2030 Block-level Total withdrawals, saline, in gallons per day
Proj_TO_WTotl_2030	Number	2030 Block-level Total withdrawals, total (fresh+saline), in gallons per day
Proj_PS_WGWFr_2035	Number	2035 Block-level Public Supply, groundwater withdrawals, fresh, in gallons per day
Proj_PS_WGWSa_2035	Number	2035 Block-level Public Supply, groundwater withdrawals, saline, in gallons per day
Proj_PS_WGWTo_2035	Number	2035 Block-level Public Supply, groundwater withdrawals, total, in gallons per day
Proj_PS_WSWFr_2035	Number	2035 Block-level Public Supply, surface-water withdrawals, fresh, in gallons per day
Proj_PS_WSWSa_2035	Number	2035 Block-level Public Supply, surface-water withdrawals, saline, in gallons per day
Proj_PS_WSWTo_2035	Number	2035 Block-level Public Supply, surface-water withdrawals, total, in gallons per day
Proj_PS_WFrTo_2035	Number	2035 Block-level Public Supply, total withdrawals, fresh, in gallons per day
Proj_PS_WSaTo_2035	Number	2035 Block-level Public Supply, total withdrawals, saline, in gallons per day
Proj_PS_Wtotl_2035	Number	2035 Block-level Public Supply, total withdrawals, total (fresh+saline), in gallons per day
Proj_DO_WGWFr_2035	Number	2035 Block-level Domestic, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_DO_WSWFr_2035	Number	2035 Block-level Domestic, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_DO_WFrTo_2035	Number	2035 Block-level Domestic, total self-supplied withdrawals, fresh, in gallons per day
Proj_DO_PSDel_2035	Number	2035 Block-level Domestic, deliveries from Public Supply, in gallons per day
Proj_DO_TOTAL_2035	Number	2035 Block-level Domestic, publicly supplied per capita use, in gallons/day [DO-PSDel/PS-TOPop]

Field	Type	Description
Proj_IN_WGWFr_2035	Number	2035 Block-level Industrial, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_IN_WGWSa_2035	Number	2035 Block-level Industrial, self-supplied groundwater withdrawals, saline, in gallons per day
Proj_IN_WGWTo_2035	Number	2035 Block-level Industrial, self-supplied groundwater withdrawals, total, in gallons per day
Proj_IN_WSWFr_2035	Number	2035 Block-level Industrial, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_IN_WSWSa_2035	Number	2035 Block-level Industrial, self-supplied surface-water withdrawals, saline, in gallons per day
Proj_IN_WSWTo_2035	Number	2035 Block-level Industrial, self-supplied surface-water withdrawals, total, in gallons per day
Proj_IN_WFrTo_2035	Number	2035 Block-level Industrial, self-supplied total withdrawals, fresh, in gallons per day
Proj_IN_WSaTo_2035	Number	2035 Block-level Industrial, self-supplied total withdrawals, saline, in gallons per day
Proj_IN_Wtotl_2035	Number	2035 Block-level Industrial, self-supplied total withdrawals, total (fresh+saline), in gallons per day
Proj_IR_WGWFr_2035	Number	2035 Block-level Irrigation, groundwater withdrawals, fresh, in gallons per day
Proj_IR_WSWFr_2035	Number	2035 Block-level Irrigation, surface-water withdrawals, fresh, in gallons per day
Proj_IR_WFrTo_2035	Number	2035 Block-level Irrigation, total withdrawals, fresh, in gallons per day
Proj_IC_WGWFr_2035	Number	2035 Block-level Irrigation-Crop, groundwater withdrawals, fresh, in gallons per day
Proj_IC_WSWFr_2035	Number	2035 Block-level Irrigation-Crop, surface-water withdrawals, fresh, in gallons per day
Proj_IC_WFrTo_2035	Number	2035 Block-level Irrigation-Crop, total withdrawals, fresh, in gallons per day
Proj_IG_WGWFr_2035	Number	2035 Block-level Irrigation-Golf, groundwater withdrawals, fresh, in gallons per day
Proj_IG_WSWFr_2035	Number	2035 Block-level Irrigation-Golf, surface-water withdrawals, fresh, in gallons per day
Proj_IG_WFrTo_2035	Number	2035 Block-level Irrigation-Golf, total withdrawals, fresh, in gallons per day
Proj_LI_WGWFr_2035	Number	2035 Block-level Livestock, groundwater withdrawals, fresh, in gallons per day
Proj_LI_WSWFr_2035	Number	2035 Block-level Livestock, surface-water withdrawals, fresh, in gallons per day
Proj_LI_WFrTo_2035	Number	2035 Block-level Livestock, total withdrawals, fresh, in gallons per day
Proj_AQ_WGWFr_2035	Number	2035 Block-level Aquaculture, groundwater withdrawals, fresh, in gallons per day

Field	Type	Description
Proj_AQ_WGWSa_2035	Number	2035 Block-level Aquaculture, groundwater withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_2035	Number	2035 Block-level Aquaculture, groundwater withdrawals, total, in gallons per day
Proj_AQ_WSWFr_2035	Number	2035 Block-level Aquaculture, surface-water withdrawals, fresh, in gallons per day
Proj_AQ_WSWSa_2035	Number	2035 Block-level Aquaculture, surface-water withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_2035	Number	2035 Block-level Aquaculture, surface-water withdrawals, total, in gallons per day
Proj_AQ_WFrTo_2035	Number	2035 Block-level Aquaculture, total withdrawals, fresh, in gallons per day
Proj_AQ_WSaTo_2035	Number	2035 Block-level Aquaculture, total withdrawals, saline, in gallons per day
Proj_AQ_WTotl_2035	Number	2035 Block-level Aquaculture, total withdrawals, total (fresh+saline), in gallons per day
Proj_MI_WGWFr_2035	Number	2035 Block-level Mining, groundwater withdrawals, fresh, in gallons per day
Proj_MI_WGWSa_2035	Number	2035 Block-level Mining, groundwater withdrawals, saline, in gallons per day
Proj_MI_WGWTo_2035	Number	2035 Block-level Mining, groundwater withdrawals, total, in gallons per day
Proj_MI_WSWFr_2035	Number	2035 Block-level Mining, surface-water withdrawals, fresh, in gallons per day
Proj_MI_WSWSa_2035	Number	2035 Block-level Mining, surface-water withdrawals, saline, in gallons per day
Proj_MI_WSWTo_2035	Number	2035 Block-level Mining, surface-water withdrawals, total, in gallons per day
Proj_MI_WFrTo_2035	Number	2035 Block-level Mining, total withdrawals, fresh, in gallons per day
Proj_MI_WSaTo_2035	Number	2035 Block-level Mining, total withdrawals, saline, in gallons per day
Proj_MI_Wtotl_2035	Number	2035 Block-level Mining, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_WGWFr_2035	Number	2035 Block-level Thermoelectric, groundwater withdrawals, fresh, in gallons per day
Proj_PT_WGWSa_2035	Number	2035 Block-level Thermoelectric, groundwater withdrawals, saline, in gallons per day
Proj_PT_WGWTo_2035	Number	2035 Block-level Thermoelectric, groundwater withdrawals, total, in gallons per day
Proj_PT_WSWFr_2035	Number	2035 Block-level Thermoelectric, surface-water withdrawals, fresh, in gallons per day
Proj_PT_WSWSa_2035	Number	2035 Block-level Thermoelectric, surface-water withdrawals, saline, in gallons per day

Field	Type	Description
Proj_PT_WSWTo_2035	Number	2035 Block-level Thermoelectric, surface-water withdrawals, total, in gallons per day
Proj_PT_WFrTo_2035	Number	2035 Block-level Thermoelectric, total withdrawals, fresh, in gallons per day
Proj_PT_WSaTo_2035	Number	2035 Block-level Thermoelectric, total withdrawals, saline, in gallons per day
Proj_PT_Wtotl_2035	Number	2035 Block-level Thermoelectric, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_Power_2035	Number	2035 Block-level Thermoelectric, power generated, in gigawatt-hours
Proj_PO_WGWFr_2035	Number	2035 Block-level Thermoelectric once-through, groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_2035	Number	2035 Block-level Thermoelectric once-through, groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_2035	Number	2035 Block-level Thermoelectric once-through, groundwater withdrawals, total, in gallons per day
Proj_PO_WSWFr_2035	Number	2035 Block-level Thermoelectric once-through, surface-water withdrawals, fresh, in gallons per day
Proj_PO_WSWSa_2035	Number	2035 Block-level Thermoelectric once-through, surface-water withdrawals, saline, in gallons per day
Proj_PO_WSWTo_2035	Number	2035 Block-level Thermoelectric once-through, surface-water withdrawals, total, in gallons per day
Proj_PO_WFrTo_2035	Number	2035 Block-level Thermoelectric once-through, total withdrawals, fresh, in gallons per day
Proj_PO_WSaTo_2035	Number	2035 Block-level Thermoelectric once-through, total withdrawals, saline, in gallons per day
Proj_PO_WTotl_2035	Number	2035 Block-level Thermoelectric once-through, total withdrawals, total, in gallons per day
Proj_PO_Power_2035	Number	2035 Block-level Thermoelectric once-through, power generated, in gigawatt-hours
Proj_PC_WGWFr_2035	Number	2035 Block-level Thermoelectric recirculation, groundwater withdrawals, fresh, in gallons per day
Proj_PC_WGWSa_2035	Number	2035 Block-level Thermoelectric recirculation, groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_2035	Number	2035 Block-level Thermoelectric recirculation, groundwater withdrawals, total, in gallons per day
Proj_PC_WSWFr_2035	Number	2035 Block-level Thermoelectric recirculation, surface-water withdrawals, fresh, in gallons per day
Proj_PC_WSWSa_2035	Number	2035 Block-level Thermoelectric recirculation, surface-water withdrawals, saline, in gallons per day
Proj_PC_WSWTo_2035	Number	2035 Block-level Thermoelectric recirculation, surface-water withdrawals, total, in gallons per day

Field	Type	Description
Proj_PC_WFrTo_2035	Number	2035 Block-level Thermoelectric recirculation, total withdrawals, fresh, in gallons per day
Proj_PC_WSaTo_2035	Number	2035 Block-level Thermoelectric recirculation, total withdrawals, saline, in gallons per day
Proj_PC_WTotl_2035	Number	2035 Block-level Thermoelectric recirculation, total withdrawals, total (fresh+saline), in gallons per day
Proj_PC_Power_2035	Number	2035 Block-level Thermoelectric recirculation, power generated, in gigawatt-hours
Proj_TO_WGWFr_2035	Number	2035 Block-level Total groundwater withdrawals, fresh, in gallons per day
Proj_TO_WGWSa_2035	Number	2035 Block-level Total groundwater withdrawals, saline, in gallons per day
Proj_TO_WGWTo_2035	Number	2035 Block-level Total groundwater withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WSWFr_2035	Number	2035 Block-level Total surface-water withdrawals, fresh, in gallons per day
Proj_TO_WSWSa_2035	Number	2035 Block-level Total surface-water withdrawals, saline, in gallons per day
Proj_TO_WSWTo_2035	Number	2035 Block-level Total surface-water withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WFrTo_2035	Number	2035 Block-level Total withdrawals, fresh, in gallons per day
Proj_TO_WSaTo_2035	Number	2035 Block-level Total withdrawals, saline, in gallons per day
Proj_TO_WTotl_2035	Number	2035 Block-level Total withdrawals, total (fresh+saline), in gallons per day
Proj_PS_WGWFr_2040	Number	2040 Block-level Public Supply, groundwater withdrawals, fresh, in gallons per day
Proj_PS_WGWSa_2040	Number	2040 Block-level Public Supply, groundwater withdrawals, saline, in gallons per day
Proj_PS_WGWTo_2040	Number	2040 Block-level Public Supply, groundwater withdrawals, total, in gallons per day
Proj_PS_WSWFr_2040	Number	2040 Block-level Public Supply, surface-water withdrawals, fresh, in gallons per day
Proj_PS_WSWSa_2040	Number	2040 Block-level Public Supply, surface-water withdrawals, saline, in gallons per day
Proj_PS_WSWTo_2040	Number	2040 Block-level Public Supply, surface-water withdrawals, total, in gallons per day
Proj_PS_WFrTo_2040	Number	2040 Block-level Public Supply, total withdrawals, fresh, in gallons per day
Proj_PS_WSaTo_2040	Number	2040 Block-level Public Supply, total withdrawals, saline, in gallons per day
Proj_PS_Wtotl_2040	Number	2040 Block-level Public Supply, total withdrawals, total (fresh+saline), in gallons per day

Field	Type	Description
Proj_DO_WGWFr_2040	Number	2040 Block-level Domestic, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_DO_WSWFr_2040	Number	2040 Block-level Domestic, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_DO_WFrTo_2040	Number	2040 Block-level Domestic, total self-supplied withdrawals, fresh, in gallons per day
Proj_DO_PSDel_2040	Number	2040 Block-level Domestic, deliveries from Public Supply, in gallons per day
Proj_DO_TOTAL_2040	Number	2040 Block-level Domestic, publicly supplied per capita use, in gallons/day [DO-PSDel/PS-TOPop]
Proj_IN_WGWFr_2040	Number	2040 Block-level Industrial, self-supplied groundwater withdrawals, fresh, in gallons per day
Proj_IN_WGWSa_2040	Number	2040 Block-level Industrial, self-supplied groundwater withdrawals, saline, in gallons per day
Proj_IN_WGWTo_2040	Number	2040 Block-level Industrial, self-supplied groundwater withdrawals, total, in gallons per day
Proj_IN_WSWFr_2040	Number	2040 Block-level Industrial, self-supplied surface-water withdrawals, fresh, in gallons per day
Proj_IN_WSWSa_2040	Number	2040 Block-level Industrial, self-supplied surface-water withdrawals, saline, in gallons per day
Proj_IN_WSWTo_2040	Number	2040 Block-level Industrial, self-supplied surface-water withdrawals, total, in gallons per day
Proj_IN_WFrTo_2040	Number	2040 Block-level Industrial, self-supplied total withdrawals, fresh, in gallons per day
Proj_IN_WSaTo_2040	Number	2040 Block-level Industrial, self-supplied total withdrawals, saline, in gallons per day
Proj_IN_Wtotl_2040	Number	2040 Block-level Industrial, self-supplied total withdrawals, total (fresh+saline), in gallons per day
Proj_IR_WGWFr_2040	Number	2040 Block-level Irrigation, groundwater withdrawals, fresh, in gallons per day
Proj_IR_WSWFr_2040	Number	2040 Block-level Irrigation, surface-water withdrawals, fresh, in gallons per day
Proj_IR_WFrTo_2040	Number	2040 Block-level Irrigation, total withdrawals, fresh, in gallons per day
Proj_IC_WGWFr_2040	Number	2040 Block-level Irrigation-Crop, groundwater withdrawals, fresh, in gallons per day
Proj_IC_WSWFr_2040	Number	2040 Block-level Irrigation-Crop, surface-water withdrawals, fresh, in gallons per day
Proj_IC_WFrTo_2040	Number	2040 Block-level Irrigation-Crop, total withdrawals, fresh, in gallons per day
Proj_IG_WGWFr_2040	Number	2040 Block-level Irrigation-Golf, groundwater withdrawals, fresh, in gallons per day
Proj_IG_WSWFr_2040	Number	2040 Block-level Irrigation-Golf, surface-water withdrawals, fresh, in gallons per day

Field	Type	Description
Proj_IG_WFrTo_2040	Number	2040 Block-level Irrigation-Golf, total withdrawals, fresh, in gallons per day
Proj_LI_WGWFr_2040	Number	2040 Block-level Livestock, groundwater withdrawals, fresh, in gallons per day
Proj_LI_WSWFr_2040	Number	2040 Block-level Livestock, surface-water withdrawals, fresh, in gallons per day
Proj_LI_WFrTo_2040	Number	2040 Block-level Livestock, total withdrawals, fresh, in gallons per day
Proj_AQ_WGWFr_2040	Number	2040 Block-level Aquaculture, groundwater withdrawals, fresh, in gallons per day
Proj_AQ_WGWSa_2040	Number	2040 Block-level Aquaculture, groundwater withdrawals, saline, in gallons per day
Proj_AQ_WGWTo_2040	Number	2040 Block-level Aquaculture, groundwater withdrawals, total, in gallons per day
Proj_AQ_WSWFr_2040	Number	2040 Block-level Aquaculture, surface-water withdrawals, fresh, in gallons per day
Proj_AQ_WSWSa_2040	Number	2040 Block-level Aquaculture, surface-water withdrawals, saline, in gallons per day
Proj_AQ_WSWTo_2040	Number	2040 Block-level Aquaculture, surface-water withdrawals, total, in gallons per day
Proj_AQ_WFrTo_2040	Number	2040 Block-level Aquaculture, total withdrawals, fresh, in gallons per day
Proj_AQ_WSaTo_2040	Number	2040 Block-level Aquaculture, total withdrawals, saline, in gallons per day
Proj_AQ_WTotl_2040	Number	2040 Block-level Aquaculture, total withdrawals, total (fresh+saline), in gallons per day
Proj_MI_WGWFr_2040	Number	2040 Block-level Mining, groundwater withdrawals, fresh, in gallons per day
Proj_MI_WGWSa_2040	Number	2040 Block-level Mining, groundwater withdrawals, saline, in gallons per day
Proj_MI_WGWTo_2040	Number	2040 Block-level Mining, groundwater withdrawals, total, in gallons per day
Proj_MI_WSWFr_2040	Number	2040 Block-level Mining, surface-water withdrawals, fresh, in gallons per day
Proj_MI_WSWSa_2040	Number	2040 Block-level Mining, surface-water withdrawals, saline, in gallons per day
Proj_MI_WSWTo_2040	Number	2040 Block-level Mining, surface-water withdrawals, total, in gallons per day
Proj_MI_WFrTo_2040	Number	2040 Block-level Mining, total withdrawals, fresh, in gallons per day
Proj_MI_WSaTo_2040	Number	2040 Block-level Mining, total withdrawals, saline, in gallons per day
Proj_MI_Wtotl_2040	Number	2040 Block-level Mining, total withdrawals, total (fresh+saline), in gallons per day

Field	Type	Description
Proj_PT_WGWFr_2040	Number	2040 Block-level Thermoelectric, groundwater withdrawals, fresh, in gallons per day
Proj_PT_WGWSa_2040	Number	2040 Block-level Thermoelectric, groundwater withdrawals, saline, in gallons per day
Proj_PT_WGWTo_2040	Number	2040 Block-level Thermoelectric, groundwater withdrawals, total, in gallons per day
Proj_PT_WSWFr_2040	Number	2040 Block-level Thermoelectric, surface-water withdrawals, fresh, in gallons per day
Proj_PT_WSWSa_2040	Number	2040 Block-level Thermoelectric, surface-water withdrawals, saline, in gallons per day
Proj_PT_WSWTo_2040	Number	2040 Block-level Thermoelectric, surface-water withdrawals, total, in gallons per day
Proj_PT_WFrTo_2040	Number	2040 Block-level Thermoelectric, total withdrawals, fresh, in gallons per day
Proj_PT_WSaTo_2040	Number	2040 Block-level Thermoelectric, total withdrawals, saline, in gallons per day
Proj_PT_Wtotl_2040	Number	2040 Block-level Thermoelectric, total withdrawals, total (fresh+saline), in gallons per day
Proj_PT_Power_2040	Number	2040 Block-level Thermoelectric, power generated, in gigawatt-hours
Proj_PO_WGWFr_2040	Number	2040 Block-level Thermoelectric once-through, groundwater withdrawals, fresh, in gallons per day
Proj_PO_WGWSa_2040	Number	2040 Block-level Thermoelectric once-through, groundwater withdrawals, saline, in gallons per day
Proj_PO_WGWTo_2040	Number	2040 Block-level Thermoelectric once-through, groundwater withdrawals, total, in gallons per day
Proj_PO_WSWFr_2040	Number	2040 Block-level Thermoelectric once-through, surface-water withdrawals, fresh, in gallons per day
Proj_PO_WSWSa_2040	Number	2040 Block-level Thermoelectric once-through, surface-water withdrawals, saline, in gallons per day
Proj_PO_WSWTo_2040	Number	2040 Block-level Thermoelectric once-through, surface-water withdrawals, total, in gallons per day
Proj_PO_WFrTo_2040	Number	2040 Block-level Thermoelectric once-through, total withdrawals, fresh, in gallons per day
Proj_PO_WSaTo_2040	Number	2040 Block-level Thermoelectric once-through, total withdrawals, saline, in gallons per day
Proj_PO_WTotl_2040	Number	2040 Block-level Thermoelectric once-through, total withdrawals, total, in gallons per day
Proj_PO_Power_2040	Number	2040 Block-level Thermoelectric once-through, power generated, in gigawatt-hours
Proj_PC_WGWFr_2040	Number	2040 Block-level Thermoelectric recirculation, groundwater withdrawals, fresh, in gallons per day

Field	Type	Description
Proj_PC_WGWSa_2040	Number	2040 Block-level Thermoelectric recirculation, groundwater withdrawals, saline, in gallons per day
Proj_PC_WGWTo_2040	Number	2040 Block-level Thermoelectric recirculation, groundwater withdrawals, total, in gallons per day
Proj_PC_WSWFr_2040	Number	2040 Block-level Thermoelectric recirculation, surface-water withdrawals, fresh, in gallons per day
Proj_PC_WSWSa_2040	Number	2040 Block-level Thermoelectric recirculation, surface-water withdrawals, saline, in gallons per day
Proj_PC_WSWTo_2040	Number	2040 Block-level Thermoelectric recirculation, surface-water withdrawals, total, in gallons per day
Proj_PC_WFrTo_2040	Number	2040 Block-level Thermoelectric recirculation, total withdrawals, fresh, in gallons per day
Proj_PC_WSaTo_2040	Number	2040 Block-level Thermoelectric recirculation, total withdrawals, saline, in gallons per day
Proj_PC_WTotl_2040	Number	2040 Block-level Thermoelectric recirculation, total withdrawals, total (fresh+saline), in gallons per day
Proj_PC_Power_2040	Number	2040 Block-level Thermoelectric recirculation, power generated, in gigawatt-hours
Proj_TO_WGWFr_2040	Number	2040 Block-level Total groundwater withdrawals, fresh, in gallons per day
Proj_TO_WGWSa_2040	Number	2040 Block-level Total groundwater withdrawals, saline, in gallons per day
Proj_TO_WGWTo_2040	Number	2040 Block-level Total groundwater withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WSWFr_2040	Number	2040 Block-level Total surface-water withdrawals, fresh, in gallons per day
Proj_TO_WSWSa_2040	Number	2040 Block-level Total surface-water withdrawals, saline, in gallons per day
Proj_TO_WSWTo_2040	Number	2040 Block-level Total surface-water withdrawals, total (fresh+saline), in gallons per day
Proj_TO_WFrTo_2040	Number	2040 Block-level Total withdrawals, fresh, in gallons per day
Proj_TO_WSaTo_2040	Number	2040 Block-level Total withdrawals, saline, in gallons per day
Proj_TO_WTotl_2040	Number	2040 Block-level Total withdrawals, total (fresh+saline), in gallons per day