

APPENDIX H – HORIZONTAL HEAD DIFFERENCES 2001 AND 2009

Summary of Observed and Simulated Horizontal Head Differences

Well Name	From	Well Name To	PEST ID	2001 Observed HHD(Feet NAVD88)	2001 Simulated HHD(Feet NAVD88)	2001 Residual HHD(Feet NAVD88)	2009 Observed HHD(Feet NAVD88)	2009 Simulated HHD(Feet NAVD88)	2009 Residual HHD(Feet NAVD88)
w_01530		w_riv03	hd00342_09	9.4	7.5	1.9	8.3	10.4	-2.1
w_01530		w_01531	hd00341_09	-18.4	-16.5	-1.9	-17.7	-20.6	2.9
w_01531		w_01544	hd00366_09	-17.5	-24.8	7.3	-19.7	-18.3	-1.5
w_01567		w_01569	hd00368_09	-8.1	-13.7	5.6	0.0	-16.5	16.5
w00012		w00076	hd00109_09	-12.0	-13.0	1.0	-13.1	-14.2	1.1
w00012		w00875	hd00110_09	40.0	33.9	6.1	40.4	34.9	5.5
w00030		w00222	hd00335_09	-10.0	-5.1	-4.9	-10.6	-7.1	-3.5
w00054		w00698	hd00257_09	-4.0	-2.3	-1.6	-3.4	-2.0	-1.4
w00054		w01405	hd00074_09	-5.6	-4.7	-0.9	-4.8	-4.3	-0.5
w00054		w00691	hd00075_09	11.0	10.6	0.4	6.9	9.1	-2.3
w00076		w00367	hd00108_09	-8.2	-6.4	-1.7	-8.5	-7.1	-1.4
w00083		w00167	hd00119_09	5.8	3.0	2.8	7.1	3.4	3.7
w00083		w00876	hd00118_09	-6.9	-9.4	2.5	-6.4	-10.1	3.7
w00112		w00835	hd00136_09	-6.0	-5.4	-0.6	-6.1	-5.9	-0.2
w00120		w00165	hd00170_09	-3.3	1.5	-4.8	-1.7	1.4	-3.1

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w00158		w00966	hd00220_09	-2.4	-1.7	-0.7	-2.4	-1.7	-0.6
w00164		w00903	hd00198_09	18.7	18.2	0.5	19.3	18.1	1.1
w00165		w00470	hd00171_09	24.0	19.6	4.4	24.3	20.8	3.6
w00166		w_01574	hd00126_09	18.0	16.4	1.6	20.2	17.1	3.1
w00167		w00339	hd00221_09	-1.5	-0.7	-0.8	-0.1	-0.8	0.6
w00167		w00927	hd00120_09	-2.0	-0.4	-1.5	-2.3	-0.4	-2.0
w00184		w00340	hd00214_09	5.6	7.7	-2.1	7.1	7.6	-0.5
w00184		w00236	hd00213_09	3.1	4.9	-1.9	3.4	4.7	-1.3
w00184		w00372	hd00212_09	-3.7	-4.5	0.9	-4.5	-4.8	0.4
w00199		w00349	hd00091_09	2.8	1.0	1.8	2.0	0.6	1.4
w00199		w00301	hd00107_09	5.5	0.6	4.9	6.1	0.8	5.3
w00207		w00698	hd00256_09	-4.5	-10.2	5.7	-4.8	-9.4	4.6
w00211		w00922	hd00239_09	-8.1	-4.4	-3.7	-6.7	-4.6	-2.1
w00213		w00914	hd00332_09	3.7	5.7	-2.0	4.5	6.4	-1.9
w00216		w00231	hd00236_09	1.1	1.3	-0.2	0.1	1.1	-1.0
w00217		w00271	hd00337_09	1.3	2.3	-1.0	3.7	-0.9	4.7
w00218		w00838	hd00240_09	-6.1	-3.4	-2.6	-7.1	-4.0	-3.1

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w00222		w00878	hd00334_09	-2.4	-1.8	-0.6	-2.8	0.2	-2.9
w00222		w00888	hd00333_09	5.6	6.9	-1.3	5.6	3.0	2.6
w00231		w00371	hd00233_09	1.7	4.3	-2.6	2.4	3.8	-1.4
w00236		w00968	hd00215_09	0.9	1.6	-0.7	1.5	1.6	-0.1
w00245		w00404	hd00248_09	-0.5	-1.6	1.0	0.3	-2.1	2.4
w00249		w00851	hd00099_09	-0.9	-4.5	3.6	-1.3	-4.9	3.5
w00256		w00258	hd00094_09	-1.0	-0.5	-0.5	-0.6	-0.7	0.1
w00258		w00805	hd00155_09	15.9	17.6	-1.8	15.8	17.2	-1.4
w00258		w00367	hd00113_09	-2.7	-1.2	-1.6	-2.6	-0.4	-2.2
w00258		w00826	hd00141_09	11.4	12.4	-1.0	11.4	13.2	-1.8
w00258		w00835	hd00114_09	-3.5	-1.9	-1.6	-3.0	-0.9	-2.1
w00258		w00580	hd00124_09	2.9	0.7	2.1	3.3	0.8	2.5
w00260		w00754	hd00182_09	-1.3	-5.9	4.6	-1.0	-5.6	4.6
w00271		w00901	hd00336_09	-1.5	1.4	-2.9	-0.8	-0.3	-0.5
w00281		w00404	hd00249_09	8.2	4.4	3.8	8.1	5.2	2.9
w00286		w00874	hd00151_09	3.0	4.3	-1.3	0.9	5.1	-4.2
w00286		w00859	hd00152_09	-12.8	-14.3	1.5	-13.1	-15.3	2.2

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w00291		w00599	hd00228_09	6.1	7.4	-1.3	6.0	8.1	-2.2
w00291		w01029	hd00206_09	-5.2	-3.3	-1.8	-6.2	-2.8	-3.3
w00298		w00356	hd00210_09	23.4	21.2	2.2	24.6	21.3	3.3
w00320		w00831	hd00106_09	-1.3	-4.0	2.7	-1.0	-4.5	3.5
w00347		w00915	hd00123_09	2.2	12.1	-10.0	3.2	12.3	-9.1
w00347		w00928	hd00122_09	-19.9	-15.0	-5.0	-17.4	-14.9	-2.5
w00349		w00783	hd00092_09	6.7	2.5	4.2	9.2	2.6	6.6
w00371		w00954	hd00234_09	6.6	9.4	-2.8	5.9	9.0	-3.2
w00372		w00995	hd00208_09	-1.0	1.4	-2.4	2.3	2.2	0.1
w00381		w00820	hd00104_09	6.7	4.9	1.8	5.4	7.3	-1.9
w00395		w01029	hd00227_09	6.4	6.3	0.1	4.6	7.0	-2.4
w00400		w00876	hd00117_09	11.9	9.0	2.9	11.7	9.0	2.7
w00413		w00439	hd00380_09	7.6	8.4	-0.8	13.0	9.9	3.2
w00416		w01411	hd00280_09	-25.2	-21.7	-3.5	-22.5	-20.2	-2.4
w00416		w00422	hd00271_09	14.9	11.3	3.6	16.0	11.8	4.2
w00420		w00768	hd00270_09	13.9	7.1	6.9	15.6	6.8	8.8
w00422		w00439	hd00272_09	12.9	12.9	0.0	18.6	14.1	4.6

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w00437		w00544	hd00267_09	-14.5	-12.1	-2.5	-13.3	-11.8	-1.5
w00439		w00768	hd00273_09	2.5	-7.2	9.7	1.7	-7.4	9.1
w00444		w00749	hd00183_09	-1.8	-4.1	2.3	-2.0	-4.1	2.2
w00444		w00525	hd00176_09	16.0	8.4	7.6	18.0	8.8	9.1
w00449		w00453	hd00024_09	-21.2	-21.1	0.0	-21.5	-21.5	0.0
w00450		w00467	hd00023_09	-10.3	-8.7	-1.6	-12.1	-9.1	-3.1
w00456		w00468	hd00026_09	-31.8	-25.1	-6.6	0.0	-29.0	29.0
w00458		w00850	hd00195_09	-26.4	-21.2	-5.1	-24.2	-22.1	-2.1
w00460		w_riv12	hd00345_09	8.7	9.3	-0.6	7.3	11.1	-3.9
w00460		w00581	hd00004_09	-32.1	-28.0	-4.1	-28.3	-29.9	1.6
w00466		w00843	hd00016_09	-1.1	-2.0	0.9	-1.0	-2.9	1.9
w00469		w00483	hd00003_09	-42.1	-34.4	-7.7	-41.5	-35.7	-5.8
w00469		w_riv11	hd00344_09	12.4	4.4	8.0	10.7	6.2	4.5
w00471		w00821	hd00146_09	7.2	9.0	-1.8	6.6	10.1	-3.5
w00479		w00487	hd00006_09	0.1	-0.1	0.1	0.0	-0.5	0.6
w00479		w_riv04	hd00343_09	52.9	52.6	0.3	50.1	51.3	-1.2
w00480		w00487	hd00005_09	-0.3	-4.8	4.5	-0.1	-3.1	2.9

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w00480		w_riv09	hd00376_09	55.3	47.7	7.6	52.8	48.3	4.6
w00481		w00487	hd00009_09	-0.7	-2.3	1.6	-0.6	-1.5	1.0
w00481		w00483	hd00362_09	0.9	8.4	-7.6	0.7	5.1	-4.4
w00486		w00513	hd00378_09	-0.2	0.6	-0.8	-3.0	1.6	-4.6
w00486		w00487	hd00377_09	-0.1	-0.8	0.7	-0.3	0.3	-0.6
w00486		w_01544	hd00367_09	-0.6	-5.1	4.5	-3.8	-5.2	1.3
w00487		w00488	hd00007_09	0.9	3.6	-2.7	0.9	3.4	-2.5
w00487		w00489	hd00008_09	1.3	3.4	-2.1	1.0	2.7	-1.7
w00492		w_riv07	hd00346_09	55.7	52.0	3.6	54.2	52.6	1.5
w00492		w_riv08	hd00347_09	57.5	53.1	4.3	56.0	53.4	2.5
w00495		w00523	hd00035_09	-16.2	-14.5	-1.6	-16.2	-14.5	-1.8
w00497		w00523	hd00318_09	-34.2	-30.3	-3.9	-33.6	-32.5	-1.1
w00499		w00513	hd00002_09	-51.3	-49.9	-1.4	-49.7	-49.1	-0.6
w00499		w00574	hd00259_09	-18.0	-18.3	0.3	-18.7	-19.6	0.9
w00500		w00507	hd00179_09	-3.0	-2.0	-0.9	-3.2	-2.7	-0.5
w00506		w00507	hd00178_09	1.6	0.6	1.0	1.5	0.8	0.7
w00506		w00525	hd00177_09	-4.3	-2.2	-2.1	-4.3	-2.8	-1.5

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w00508		w00802	hd00160_09	1.0	2.7	-1.6	1.6	3.2	-1.6
w00508		w00788	hd00159_09	-0.7	-0.1	-0.5	-1.0	-0.5	-0.5
w00514		w00528	hd00252_09	-4.3	-9.3	5.0	-5.0	-9.3	4.3
w00517		w00775	hd00158_09	0.7	2.4	-1.7	0.9	2.8	-1.8
w00519		w00520	hd00001_09	-25.6	-21.6	-4.0	-22.6	-27.1	4.5
w00520		w_01544	hd00370_09	-24.8	-32.1	7.3	-28.3	-26.6	-1.7
w00522		w00824	hd00314_09	40.0	38.7	1.4	39.3	44.8	-5.5
w00522		w00523	hd00313_09	-15.3	-18.7	3.4	-14.9	-13.6	-1.3
w00523		w_01544	hd00305_09	19.4	11.9	7.4	17.1	13.1	4.0
w00523		w00576	hd00304_09	-2.0	-1.7	-0.2	-2.7	-1.0	-1.6
w00523		w_riv02	hd00360_09	58.9	54.4	4.5	57.2	55.8	1.4
w00527		w00564	hd00261_09	-8.9	-9.9	1.0	-8.1	-10.9	2.8
w00528		w00745	hd00251_09	-19.6	-14.4	-5.2	-21.0	-15.1	-5.9
w00530		w00959	hd00031_09	-23.6	-25.2	1.6	-25.2	-24.3	-0.9
w00531		w00706	hd00263_09	-0.3	-2.1	1.8	-0.5	-1.6	1.0
w00535		w00583	hd00302_09	-0.3	-0.1	-0.2	-0.2	0.0	-0.1
w00536		w00543	hd00193_09	0.0	-7.6	7.6	-7.7	-9.6	1.9

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w00538		w00708	hd00265_09	-25.5	-17.4	-8.1	-24.8	-22.4	-2.4
w00538		w00545	hd00037_09	-36.4	-31.4	-4.9	-37.0	-36.9	-0.1
w00539		w00546	hd00260_09	6.4	10.8	-4.4	4.5	9.7	-5.2
w00544		w00693	hd00266_09	-9.9	-9.8	-0.1	-8.9	-9.4	0.4
w00545		w00549	hd00364_09	-4.3	-6.5	2.2	-4.0	-5.9	2.0
w00545		w00738	hd00038_09	35.0	29.7	5.3	37.6	33.9	3.8
w00547		w00560	hd00036_09	44.6	36.3	8.3	44.1	34.7	9.4
w00547		w00562	hd00310_09	21.9	22.5	-0.6	22.1	22.7	-0.6
w00549		w00551	hd00363_09	-0.4	0.2	-0.5	0.5	1.8	-1.3
w00554		w00707	hd00279_09	-38.5	-30.3	-8.3	0.0	-33.2	33.2
w00560		w_01522	hd00379_09	14.2	19.1	-4.9	16.7	23.4	-6.7
w00562		w00577	hd00311_09	30.0	28.0	2.0	30.3	27.2	3.2
w00566		w00745	hd00253_09	-0.2	-1.0	0.7	-0.2	-1.2	1.0
w00566		w00740	hd00254_09	1.2	0.2	1.0	1.5	0.2	1.3
w00570		w_riv01	hd00365_09	20.8	15.9	4.8	19.4	19.7	-0.3
w00570		w00576	hd00361_09	-38.2	-39.0	0.8	-38.5	-36.1	-2.4
w00573		w00917	hd00323_09	-13.6	-12.8	-0.7	-14.7	-13.5	-1.2

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w00576		w00791	hd00039_09	52.5	47.0	5.4	52.5	47.9	4.5
w00583		w00733	hd00303_09	-0.8	0.1	-0.8	-0.6	0.0	-0.6
w00597		w00604	hd00328_09	3.2	6.6	-3.4	3.9	6.6	-2.7
w00598		w00880	hd00149_09	-7.1	-0.1	-7.0	-6.7	-0.1	-6.6
w00599		w00998	hd00229_09	7.4	10.4	-3.0	7.9	10.0	-2.1
w00618		w01282	hd00062_09	92.5	96.4	-3.9	87.0	87.5	-0.5
w00621		w01282	hd00065_09	61.2	61.1	0.1	58.8	57.1	1.7
w00621		w01288	hd00064_09	-2.7	-2.2	-0.4	-1.2	-1.9	0.8
w00630		w00750	hd00085_09	5.4	-1.1	6.6	-0.2	-2.8	2.6
w00653		w_e0001	hd00350_09	-63.6	-68.1	4.4	-60.5	-65.7	5.2
w00659		w00966	hd00219_09	21.7	-0.1	21.8	21.9	-0.1	22.0
w00666		w01009	hd00331_09	0.2	-4.8	5.1	-0.1	-4.8	4.7
w00706		w00708	hd00264_09	4.0	5.7	-1.7	3.7	4.0	-0.4
w00714		w00731	hd00186_09	-0.5	-2.3	1.9	-0.5	-2.1	1.6
w00731		w00737	hd00185_09	-0.9	-2.0	1.1	-1.1	-1.7	0.7
w00733		w00745	hd00250_09	-1.3	-0.9	-0.4	-1.9	-1.3	-0.6
w00737		w00749	hd00184_09	-2.3	-1.1	-1.2	-2.2	-0.9	-1.3

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w00754		w00760	hd00181_09	0.3	-2.0	2.2	0.1	-1.8	1.9
w00775		w00788	hd00371_09	-1.2	-3.2	2.0	-1.5	-3.0	1.5
w00799		w00805	hd00156_09	-5.2	-4.9	-0.3	-5.3	-5.2	0.0
w00802		w00811	hd00161_09	19.1	14.9	4.2	20.3	15.8	4.5
w00807		w00812	hd00087_09	-5.4	-6.5	1.2	-5.2	-6.5	1.4
w00811		w_riv06	hd00162_09	10.8	8.6	2.2	11.1	9.6	1.5
w00813		w00818	hd00101_09	-22.7	-22.6	0.0	-23.4	-23.9	0.5
w00816		w_riv06	hd00163_09	1.5	-0.4	1.9	2.1	-0.5	2.7
w00821		w_01574	hd00127_09	-8.7	-9.7	1.0	-8.4	-10.9	2.6
w00828		w_01577	hd00130_09	-18.3	-20.5	2.2	0.0	-24.3	24.3
w00830		w00832	hd00140_09	14.2	14.8	-0.6	19.9	18.2	1.7
w00835		w00845	hd00154_09	6.8	4.0	2.8	5.0	4.9	0.1
w00843		w_riv12	hd00353_09	2.2	8.0	-5.8	2.7	9.2	-6.5
w00845		w00859	hd00153_09	6.3	10.8	-4.5	7.7	10.6	-3.0
w00847		w00861	hd00019_09	-22.3	-21.5	-0.7	-24.0	-21.2	-2.8
w00849		w00877	hd00242_09	40.9	38.7	2.3	41.5	40.7	0.8
w00851		w00858	hd00098_09	-1.1	-2.0	0.9	-0.8	-2.7	1.9

Well Name	From	Well Name To	PEST ID	2001 Observed HHD(Feet NAVD88)	2001 Simulated HHD(Feet NAVD88)	2001 Residual HHD(Feet NAVD88)	2009 Observed HHD(Feet NAVD88)	2009 Simulated HHD(Feet NAVD88)	2009 Residual HHD(Feet NAVD88)
w00868		w00877	hd00243_09	16.8	14.3	2.5	17.7	14.0	3.7
w00874		w00880	hd00150_09	1.9	0.4	1.4	4.6	0.5	4.1
w00881		w00901	hd00232_09	-16.2	-9.6	-6.6	-16.3	-15.3	-1.0
w00885		w00912	hd00247_09	-5.4	-2.2	-3.2	-7.3	-2.0	-5.3
w00895		w00896	hd00029_09	-9.6	0.7	-10.3	-6.6	0.7	-7.3
w00896		w_01592	hd00321_09	30.5	21.7	8.9	30.3	22.4	7.9
w00896		w00905	hd00028_09	10.6	-0.6	11.2	7.8	-0.6	8.4
w00901		w00906	hd00231_09	18.1	15.0	3.1	18.7	19.1	-0.4
w00912		w00914	hd00246_09	-5.6	-4.6	-0.9	-2.6	-4.3	1.7
w00913		w_01599	hd00359_09	15.8	20.4	-4.7	18.5	20.3	-1.8
w00917		w00933	hd00027_09	7.6	7.2	0.5	8.3	7.5	0.8
w00917		w_01592	hd00322_09	-3.8	-5.1	1.3	-2.7	-4.3	1.7
w00927		w00928	hd00121_09	5.4	4.6	0.8	6.9	4.6	2.3
w00940		w00945	hd00223_09	-0.1	0.6	-0.7	-0.3	0.6	-0.9
w00945		w00958	hd00224_09	6.8	3.7	3.1	8.7	3.8	4.9
w00959		w00965	hd00030_09	-18.4	-14.5	-3.9	-16.5	-12.3	-4.2
w00965		w00985	hd00034_09	48.2	44.5	3.7	47.7	42.5	5.2

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w00965		w00977	hd00372_09	58.6	44.3	14.3	57.9	41.6	16.3
w00968		w00978	hd00216_09	0.7	2.4	-1.7	0.8	2.3	-1.5
w00970		w00978	hd00217_09	3.2	-1.0	4.3	2.3	-1.1	3.3
w00977		w00994	hd00373_09	5.3	11.9	-6.6	5.4	11.7	-6.3
w00978		w01002	hd00226_09	7.8	8.3	-0.5	9.9	8.5	1.4
w00985		w00987	hd00374_09	19.2	9.7	9.5	18.3	9.7	8.6
w00998		w01002	hd00230_09	9.6	11.3	-1.6	12.3	11.4	0.9
w01002		w01004	hd00225_09	17.0	15.0	1.9	15.3	15.3	0.1
w01004		w01009	hd00330_09	11.6	9.6	2.0	13.1	9.8	3.3
w01020		w01023	hd00326_09	4.8	8.4	-3.6	0.0	8.3	-8.3
w01054		w01396	hd00077_09	22.0	25.3	-3.3	-3.7	3.9	-7.6
w01060		w01416	hd00191_09	18.0	4.7	13.3	17.9	3.9	14.1
w01060		w01412	hd00189_09	36.5	25.8	10.7	40.3	24.8	15.5
w01084		w01101	hd00288_09	-18.3	-15.7	-2.6	-22.8	-16.3	-6.5
w01099		w01103	hd00068_09	6.1	1.3	4.8	6.2	1.2	5.1
w01099		w01102	hd00067_09	-15.0	-18.6	3.6	-14.0	-17.2	3.2
w01101		w01139	hd00287_09	-102.1	-99.2	-2.9	-97.7	-100.3	2.6

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w01102		w01406	hd00066_09	-19.9	-22.4	2.5	-18.8	-20.9	2.2
w01103		w01331	hd00073_09	-1.5	0.6	-2.1	3.4	0.3	3.1
w01137		w01470	hd00044_09	-59.7	-54.3	-5.4	-59.1	-58.3	-0.8
w01137		w01433	hd00284_09	34.7	40.9	-6.2	38.0	40.8	-2.8
w01145		w01439	hd00293_09	-3.0	-6.6	3.6	-3.9	-7.1	3.2
w01215		w01447	hd00291_09	6.3	10.3	-4.0	10.4	12.7	-2.4
w01215		w01223	hd00290_09	-39.3	-32.1	-7.2	-31.7	-33.7	2.0
w01227		w01346	hd00356_09	22.3	22.8	-0.5	24.3	24.1	0.2
w01227		w01248	hd00355_09	-115.4	-115.2	-0.2	-111.7	-109.3	-2.4
w01229		w01346	hd00057_09	-31.1	-30.9	-0.2	-30.2	-31.6	1.5
w01229		w01318	hd00058_09	-17.2	-15.2	-2.0	-16.6	-15.9	-0.6
w01238		w01259	hd00060_09	49.4	48.9	0.6	46.2	44.9	1.3
w01238		w01318	hd00059_09	-9.9	-8.2	-1.7	-9.7	-8.3	-1.3
w01252		w01472	hd00309_09	39.0	46.3	-7.3	40.3	47.6	-7.3
w01256		w01257	hd00052_09	-16.6	-19.3	2.7	-15.6	-16.6	1.0
w01256		w01285	hd00053_09	18.7	17.7	1.0	17.5	15.9	1.5
w01257		w01258	hd00051_09	-13.5	-18.7	5.2	-15.2	-18.1	2.9

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w01258		w01262	hd00050_09	-22.3	-15.9	-6.4	-17.4	-16.0	-1.4
w01259		w01282	hd00061_09	30.9	31.2	-0.3	29.6	31.5	-1.8
w01261		w01262	hd00049_09	16.5	16.1	0.4	16.7	14.7	2.0
w01261		w01423	hd00045_09	-58.2	-59.2	1.0	-59.9	-55.3	-4.7
w01266		w01274	hd00048_09	-37.4	-41.9	4.6	-39.9	-39.6	-0.3
w01273		w01471	hd00046_09	-109.9	-110.7	0.9	-112.2	-111.7	-0.5
w01273		w01423	hd00047_09	8.1	10.1	-2.0	6.2	9.1	-3.0
w01279		w01431	hd00056_09	-58.9	-61.9	3.1	-64.1	-60.6	-3.5
w01282		w01283	hd00055_09	-8.7	-7.5	-1.2	-7.6	-9.6	2.1
w01283		w01285	hd00054_09	-40.6	-38.7	-1.9	-39.6	-39.6	-0.1
w01321		w01331	hd00072_09	2.0	2.8	-0.8	2.1	2.6	-0.5
w01321		w01329	hd00071_09	-1.6	-1.8	0.2	-2.0	-1.7	-0.3
w01329		w01339	hd00070_09	-5.4	-4.9	-0.5	-7.9	-4.5	-3.4
w01339		w01376	hd00069_09	-15.0	-11.6	-3.5	-14.8	-10.7	-4.1
w01364		w01396	hd00078_09	0.5	-1.3	1.7	-7.0	-1.3	-5.7
w01372		w01383	hd00081_09	-5.2	-3.3	-1.8	-3.5	-3.2	-0.3
w01383		w01392	hd00080_09	-5.9	-2.8	-3.1	-2.2	-1.4	-0.7

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w01410		w01412	hd00190_09	-5.1	-4.3	-0.8	-5.2	-3.7	-1.5
w01439		w01445	hd00299_09	-5.9	-5.5	-0.4	-7.5	-5.8	-1.6
w01439		w01447	hd00292_09	-5.7	-3.5	-2.2	-7.7	-4.5	-3.2
w01439		w01444	hd00295_09	-5.1	-4.0	-1.0	-4.0	-5.5	1.5
w01444		w01454	hd00294_09	-22.6	-22.3	-0.3	-26.2	-26.0	-0.2
w01445		w01462	hd00298_09	-42.0	-34.8	-7.2	-39.8	-34.1	-5.7
w01467		w01477	hd00283_09	-48.2	-56.2	8.0	-58.0	-52.0	-6.0