

**DEPTH TO WATER MEASUREMENTS IN THE  
EASTERN SNAKE  
RIVER PLAIN AQUIFER: 1980 to 2000**

By

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# Collection and Analysis of Depth to Water Measurements for Calibration of the Eastern Snake River Plain Aquifer Model, 2001

By Suzanne Shaub

## Introduction

In order to facilitate the calibration of the Eastern Snake River Plain Aquifer Model (ESRPAM), depth to water measurements for the period beginning in 1980 and ending in 2000 were collected, analyzed, and stored in a database. The data will be used to support a 20-year transient calibration of the ESRPAM.

Data were gathered for a 3-month interval in the spring and fall of each year centered around April 15 and October 15. Depth to water data were extracted using the program Well\_Log at Idaho Department of Water Resources (IDWR). The depth to water data was imported into Microsoft Access 97 SR-2 as a database, imported into Microsoft Excel 97 SR-2 for file conversion, and posted in ESRI ArcView version 3.2. The following report is a summary of the collection and analysis of depth to water data, description of the database, and the reasoning behind choosing a 3-month interval over a 2-month interval for the calibration of the ESRPAM.

## Collection and Analysis of Depth to Water Measurement Data

A boundary of the ESRPAM currently resides on the Well\_Log server, although for this project an extended boundary of the ESRPAM was created to accommodate potential model boundary expansion (Figure 1). In Well\_Log this extended boundary is stored as a local project on IDWR282 labeled *ESRP2: Extended boundary of ESRP*. Well\_Log (designed and maintained by IDWR) includes U.S. Geological Survey (USGS) measurements, IDWR measurements, consultant measurements, and some measurements from the Well Driller's Logs.

Well coverage in the ESRPAM varies by year with more data available during years of mass measurements. The maximum number of wells available was in the mass measurement year of 1980, with another mass measurement pending in 2001. The well coverage is dense in agricultural areas, mostly near the Snake River and is light in the central part of the plain.

## Well\_Log

Well\_Log was queried to retrieve depth to water information for all available wells within the extended boundary for each 3-month period. Within the query, the wells were filtered to exclude a status of "pumping", "nearby pumping", and "recently pumped" (USGS measures wells while the pump is on).

Each Well\_Log query yields two types of files. The first file is a .log file containing one record per well containing the well number, location, use, total depth, elevation, the number of times this well has been measured, and well openings (minimum and maximum). The second file is an .swl file containing one record for each time a well was measured along with the well number, date of depth to water measurement, depth to water (feet), and who measured the well. Each of these files contains part of the information necessary for a complete data set for each well. These files were saved in the ESRPAM directory to be imported into Access, filtered, and

saved as Excel tables where the coordinates for each well could be converted and imported into ArcView to create maps.

The well-numbering system used by Well\_Log is identical to the USGS system. The system is based on the legal descriptions of well locations. The first two segments of the number designate the township and range. The third segment gives the section number, and three or four letters and a number, which indicates the  $\frac{1}{4}$  section (160-acre tract),  $\frac{1}{4}$ ,  $\frac{1}{4}$ , section (40-acre tract),  $\frac{1}{4}$ ,  $\frac{1}{4}$ ,  $\frac{1}{4}$  section (10-acre tract), and if defined, the  $\frac{1}{4}$ ,  $\frac{1}{4}$ ,  $\frac{1}{4}$ ,  $\frac{1}{4}$  section (2.5-acre tract), followed by the serial number of the well within the tract. Quarter sections are lettered A, B, C, and D in counterclockwise order from the northeast quarter of each section. Within quarter sections, 40-acre and 10-acre tracts are lettered in the same manner. Well 12S22E-16CCC1 is in the SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , Section 16, Township 12 South, Range 22 East, and was the first well inventoried in that tract (see below). For wells that are located in government lots, the third segment of the well number uses the following format. First the section number, then the letter L (code for indicating a government lot) and the lot number (1-16), and finally a serial letter. An example of this format is as follows: 16L03A.

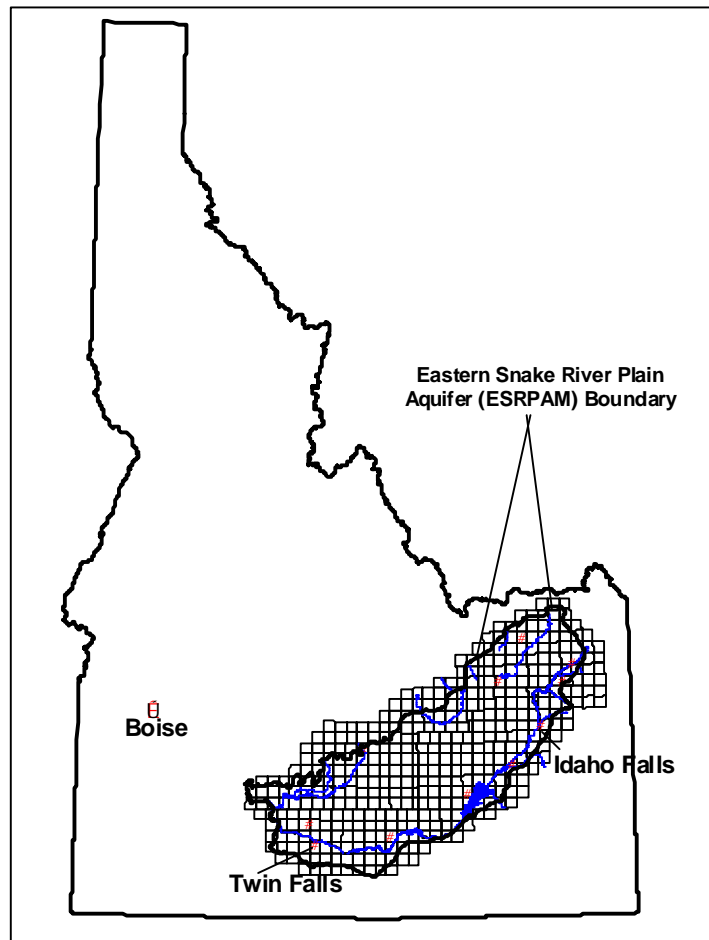


Figure 1. Location map of Eastern Snake River Plain Aquifer Model Boundary

## Access database

An Access database was designed to allow for overall management of the depth to water data. The Access database (DWR282\pccommon\ESRP\ESRP.mdb) tables were queried to calculate the average depth to water from each set within the 3-month window for each well.

Another query was designed for each time interval (spring and fall 3-month) to create a spreadsheet displaying the average depth to water for each well for each year (Appendix I). The average depth to water is the average of all measurements, for that well, within the 3-month window.

The Access query results were exported and saved as Excel files (labeled by season and year). The well locations were then converted from latitude and longitude to decimal degrees to be imported into ArcView.

## ArcView

In ArcView a shapefile was created for each 3-month interval (ex: Fall 1980). Each file was filtered to remove well nests (piezometer nests). These well nests were separated from the main dataset, but will be useful for assessing vertical gradients in the ESRPAM and for assessing the need for multiple model layers. The 21 well nests are listed and locations shown on a map in Appendix II.

Each file was also filtered to remove wells within a local shallow system (perched aquifer). This included any well with a completion depth of 30 feet or less. These are the wells which are perceived to be perched, but this topic may be re-examined at a later time.

After these filters were applied, all files were projected to Idaho Transverse Mercator (IDTM) coordinates. All files and their general description are listed in Appendix III.

## Determination of Three Month Interval

Initially, the above process was done for both two and three month intervals. Maps were created in ArcView to display wells measured within a 2-month and 3-month interval for a random selection of years. Hydrographs showing the change in depth to water between the 2 and 3-month intervals were also created for these few random years (Appendix IV). After viewing the well location maps (Appendix V) and associated hydrographs, a subcommittee of the Eastern Snake Hydrologic Modeling Committee decided to use the 3-month interval for depth to water measurements for the calibration of the ESRPAM. Inspection of the ArcView maps indicated that selection of the 2-month interval would exclude depth to water measurements in many wells, diminishing the areal coverage of target water level data for calibration. Using a 2-month interval caused a 15% decrease in number of available wells. Therefore, the 3-month interval was selected as the final filter for depth to water data. With this decision being made maps were created in ArcView to display the number of wells and their location within both the spring and fall 3-month intervals for each year (Appendix V).

## Water Level Change Maps

Change maps of the depth to water change between 5-year intervals beginning in 1980 were created using Surfer 7.0 (Appendix VI).

## **APPENDIX I**

**AVERAGE DEPTH TO WATER  
SPRING AND FALL 3-MONTH INTERVALS  
1980-2000**

SPRING 3-MONTH INTERVAL

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
01N18E-01DAA1	5137	47.3	45.7	45.7	44.3	44.3	45.7	43	43.5	44.5	45.5	46.5	45	46.5	48.5	46	46	46.5	45.5	45		
01N28E-03CDB1	5190			765						763												
01N29E-08BCD1	5045																630		629	627	627	627
01N29E-30BBD1	5067	651	651	651	650	647	646	648	648	649	651	651	652	653	654	653	654	653	653	652	652	652
01N30E-10BBA1	4979	553	553	553	551	547	547	549	549	551	552	553	553	554	556	555	556	554	554	552	552	555
01N30E-29CCB1	5105															684	684	683	682	681	681	681
01N36E-01CCB1	4674	154	155	155	153	152	152	151	152	152	153	152	152	155	159					154		
01N37E-10CBB1	4648								106	103	101	99	99	103	107	104	107	106	103	105	106	
01N37E-15BBA1	4646	104	106	106	105	104	104	103														
01N37E-15BBA2	4646	103	106	106	105	104	103	103														
01N37E-15BBA3	4646	102	105	104	104	103	103	103														
01S17E-17BBB1	4937	41.5	43.3	42.7	40.5	37	35.5	35.5	35	38	41	42.5	45	46	46.5	46	46	43.5	40.5	37		
01S18E-14AAB1	4904	-26	-25	-26	-31	-29	-28	-29	-25	-23	-19	-22	-18	-20	-20	-23	-21	-30	-29	-27		
01S19E-03CCB2	4934	19.7	18	17	15.3	16	15.7	16	17.3	20.3	21.3	19.7	22	21.3	22.5	19	22	16	15.5	17.5		
01S19E-16CCD2	4902												-11									
01S19E-22AAA1	4885	-5	-5.5	-6	-7	-6	-6	-6.5	-5.5	-5	-5.5	-5	-4	-4	-3.5							
01S22E-09CCA1	4863	63	70	53.5	51	55.5	49.5	49	69	79	65.5	69										
01S22E-09CCA2	4863													168	134	139	141	101	89	94	91	
01S23E-26CCC1	5030	955	955	957	956	953	951	950	948	950	953	956	959	961	965	965	968	967	966	963	962	961
01S27E-14DCC1	5159	999	1000	1001	1000	997	992	991	989	991	995	999	1002	1004	1008	1009	1011	1008	1009	1006	1009	1004
01S30E-15BCA1	5133	715	715	715	714	711	711	712	712	713	714	715	715	716	717	717	717	716	716	715	715	715
01S32E-22BDB1	4740	319	319	319				316	315	317	318	317	319	320	321	321	321	320	319	318	318	319
01S34E-21DAC1	4547	112	112	112				108	109	110	111	111	112	113	114	114	114	113	112	111	112	112
01S35E-11CAD1	4662	174	175	174	173	172	171	172	171	172	172	174	174	176	178	176	178	176	177	174	175	175
01S37E-36CDA1	4780	250	252	250	252	247	248	247	246	245	245	244	244	247	251	249	250	248	247	247	248	248
02N18E-10CCC1	5324					38		36.5					41									
02N18E-15BAC1	5315							33.5	37.7													
02N18E-26ABD1	5217							36	38.3													
02N26E-22DDA1	5362	662	661	660	660	659	657	658	656	659	660	660	660	661	661	660	660	658	659	658	658	658
02N26E-22DDA2	5362	983	983	983	982	980	977	978	978	979	981		982	983	984	984	985	984	984	982	982	982
02N27E-02DDC1	5195	765	764	765	761	756	756	760	760	762	764	765	766	767	769	768	769	767	766	764	764	764
02N27E-33ACC2	5375			986	985	984	982	982	982	983	984	985	986	987	988	988	988	988	988	987	986	986



Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
02N28E-13ADD1	5029	600	600	600	590	581	582	592	591	595	598	601	601	602	603	603	604	601	602	597	599	599
02N28E-21BBB1	5079	648	648	648	644	638	639	643	643	645	649	648	649	650	651	651	652	649	649	647	647	647
02N28E-35AAC1	5032	606	606	606	604	599	599	603	603	604	605	606	607	608	609	609	609	609	607	606	606	606
02N29E-13AAA1	4943	497	498	498	497	495	493	493	494	493	495	496	496	498	499	500	500	499	500	498	497	497
02N29E-15CBA1	5017		587	587	584	579	580	583		584	586	586	587	588	590	589	590	588	588	586	586	587
02N29E-17BBA1	5005															578	577		576	573	574	574
02N29E-17CBC1	5010	581	581	581	577	571	572	577	576	579		582	582	583	584	584	585	583	582	580		
02N29E-18ADB1	5016														590	590		588	585	586	586	
02N29E-18BDA1	5016	587	587	587	582	577	577	583	582	584	586	587	588	589	590	590	591	589	588	586	586	586
02N29E-18BDC1	5008	208	207	207	209	209	209	208	207	207	207	212	211	211	212				212	211	212	211
02N29E-18CBA1	5011																586		584		582	583
02N29E-18CBD1	5012									581	582	584	584	585	586	586	587	585	585	582	583	583
02N29E-18CCD1	5020	591	591	592	589	543	544	567	574	579	582	587	588	589	592	592	592	592	591	589	589	
02N29E-18CCD2	5023																597		596		593	594
02N29E-18DCA1	5012															585	586	585				582
02N29E-18DCB1	5033									600	602	602	604	605	607	606	607	605	604	602	602	602
02N29E-19BCB1	5012									611	613	613	614	615	616	615	616	615	614	612	612	613
02N29E-20BBA1	5066																641		639	637	637	637
02N29E-24DAD1	4991		555	555			549	551	551	552	554	554	555	556	557	557	557	557	556	554	554	554
02N29E-31CDC1	5045		619	620	617	612	610	616	616	617	619	620	620	621	622	622	622	621	620	619	619	619
02N29E-33DCC1	5090		669	669		661	662		665	666	668	669	669	670	672	671	672	671	670	668	668	669
02N29E-35CCC1	5033		605	605		598	595	602	602	603	604	605	605	607	608	608	608	607	606	605	605	605
02N30E-04DCC1	4926	472	472	472	470	468	466	467	467	468	469	470	471	472	474	474	475	474	473	471	470	471
02N30E-16CCA1	4918		479	479	477	475	474	475	475	476	477	478	478	479	481	481	481	480	480	478	478	478
02N30E-31CBC1	5007		581	581		575	574	577	576	578	580	581	581	582	584	583	584	582	582	580	580	580
02N30E-35DAD1	5001		569	569	567	565	564	565	565	566	567	567	569	569								
02N30E-35DAD2	5001																	565	564	563	563	563
02N31E-35DCC1	5024	587	587	587	586	583	582	583	584	585	586	586	587	588	589	589	590	588	588	587	586	
02N32E-22ABA1	5370			934	933	931	930	931	931	932	933	934	935	936	937	937	937		935	935		
02N35E-02BBC1	5090	580	581	581	580	578	576	577	577	577	578	578	579	581	584	583	584	583	581	579	579	579
02N35E-02BBC2	5090	580	581	581	580	578	575	577	577	577	578	578	579	581	584	583	584	583	581	580	578	579
02N35E-02BBC3	5090	580	581	581	580	578	575	577	577	577	578	577	578	580	583	582	583	582	580	579	578	

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
02N37E-02ABA1	4725	166	168	167	166	166	165	165	166	166	166	165	166	167	171	169	171	166	165	167	167	168
02N38E-16ADD1	4738	117	119	120	122	119	120	119	121	122	122	120	120	121	124	123	124	118	119	122	121	120
02S20E-01ACC2	4790	147	149	145	134	149	151	145	152	153	148	152	152	151	149	152	153	149	148	148	145	
02S30E-30BBB1	5100	689	689																			
02S32E-23BBB1	4585	168	168	168	167	166	164	165	166	167	168	168	168	170	170							
02S32E-28CBB1	4575	155				152	152	152														
02S33E-16ABB1	4556	134						131	132	133	134	134	134	136	136	137		135	135	134	134	134
02S34E-10BAB1	4491	60				57	56															
02S34E-13ADC1	4490					63																
02S34E-13CBB1	4470					43																
02S34E-13CCC1	4470					43																
02S34E-13DBA1	4479					48																
02S34E-24BBB1	4470					39																
02S34E-25AAA1	4476					49	46															
02S34E-25ADD1	4482	48				45																
02S34E-25BCD1	4472	38				38																
02S34E-25CCC1	4466	39				35																
02S34E-25DDD1	4466	33				42																
02S34E-26BCC1	4453					27																
02S34E-26DDA1	4464	31				36																
02S34E-27AAB1	4456	32				38																
02S34E-27ADC1	4455	35				29																
02S34E-28BAB1	4454	34				39																
02S34E-28DDD1	4450					24																
02S34E-33BBA1	4457	31.5	32	31.5	30.5	28.5	27.3	29	28.5	29.5	30	31.5	32.5	32.5	33.5	32.5	32.5	34	31.5	30.5	30.5	31
02S34E-35ACB1	4458					31																
02S34E-35CDD1	4458					28																
02S34E-35DCB1	4454					29																
02S34E-35DDA1	4456					30	29															
02S34E-36BBA1	4460	35				36																
02S35E-11DDD1	4510	71	62.3	43.3	43.7	38.3	39.3	37.5	37	41.5	38	39.3	49.5	43.5	54.5	42	57.5	46	38	40.5	40.5	38.5
02S35E-11DDD2	4518	71	71	69.7	68.7	66.7	66	65	67	69	69	70.5	70.5	72	72.5	72	73	71	69	69	69	69

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
02S35E-11DDD3	4518	70	69.7	68.3																		
02S35E-11DDD4	4518	70	69.3	68.3	67.3	65.3	65															
02S35E-14ABB1	4518					68																
02S35E-14BBA1	4514					71																
02S35E-14BCB1	4513					76																
02S35E-15ADA1	4515					75																
02S35E-17BBB1	4489					54																
02S35E-17CAB1	4490					59																
02S35E-17DDA1	4496					64	63															
02S35E-18AAA1	4486					54																
02S35E-18CBBA1	4481					51.5																
02S35E-18DCDD1	4486					55.5																
02S35E-19AAB1	4485					56																
02S35E-19AAD1	4490	61				58.5	57															
02S35E-19CCB1	4474					47																
02S35E-20CCC1	4483					53																
02S35E-20CDC1	4480					53								54								
02S35E-20DCB1	4690					53																
02S35E-22DAC1	4525	88				84	80.3	81.7	83.7	85.7	85	86	87.7	88	89.5	87.5	89.5	87	84	76	84.5	86
02S35E-24CCD1	4514	24				32	33															
02S35E-25CBC1	4514					49																
02S35E-25CCB1	4515					51																
02S35E-27ACDA1	4490						42.7															
02S35E-27ACDC1	4490					42	39.3															
02S35E-27CAA1	4486							24														
02S35E-27CAA2	4486							17														
02S35E-27CCBB1	4486						24	25														
02S35E-27CCBB2	4486						24.3	25														
02S35E-27CDAC1	4484						27															
02S35E-27DBB1	4489					36	34															
02S35E-27DBDA1	4487	40				33	31.3															
02S35E-28BCDA1	4490						54															

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
02S35E-28CAAD1	4488					49.7	47.3															
02S35E-28CCBB1	4484					46																
02S35E-28CDDD2	4482					42	40															
02S35E-28CDDD3	4485					44.7	41.7															
02S35E-28DBAA1	4488					45.3	47															
02S35E-28DBCD1	4485					40	44.7															
02S35E-28DCDC1	4481						25.7															
02S35E-28DCDC2	4481						17															
02S35E-28DDDD1	4482						20.7	21														
02S35E-29AAB1	4487					58	57															
02S35E-31ACC1	4469	24.5				36																
02S35E-31BBA1	4470	43				40																
02S35E-31CCC1	4461					33	32															
02S35E-31CDD1	4460	30.5				33	32															
02S35E-32AAB1	4484					43	42.7															
02S35E-32ABCC1	4477					39.5	41															
02S35E-32ACC1	4477					40	37.7															
02S35E-32ADAC1	4480					37.5	38															
02S35E-32ADDC1	4479					39.3	39															
02S35E-32BAA1	4481					47	42															
02S35E-32BDCA1	4475					40																
02S35E-32CAD1	4470					32.5																
02S35E-32CBAD1	4467					32																
02S35E-32CCCD1	4470					34.3																
02S35E-32CDAC1	4471					33.7																
02S35E-32CDDC1	4472					34																
02S35E-32CDDC2	4471					30.5																
02S35E-32CDDD1	4467					32.7																
02S35E-32DAAC1	4478					35.5	37.5															
02S35E-32DADB1	4474					34	34															
02S35E-32DCCA1	4472					31																
02S35E-32DDBD1	4474					31																

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
02S35E-32DDCB1	4475					31	33															
02S35E-33ABAD1	4481					23.7	21.5															
02S35E-33BABD1	4483					42	39.3															
02S35E-33BADB1	4480					37.7	36.5															
02S35E-33BBBC1	4483					41	42.7															
02S35E-33BCBD1	4481					40	39															
02S35E-33BCBD2	4481						39															
02S35E-33BCDC1	4481					40.7	38.3															
02S35E-33CABC1	4482					38.5	38															
02S35E-33CABC3	4482					41	38.7															
02S35E-33CBAA1	4482					42	41.5															
02S35E-33CBBA1	4479					37.5	36.3															
02S35E-33CBCB1	4481					39.5																
02S35E-33CCBB1	4476					34.7	31.7															
02S35E-33CDAC1	4482					37.5	36.7															
02S35E-33DABC1	4478						8	9														
02S35E-33DACB1	4478							8														
02S35E-33DBBA1	4479					23.5	23.3															
02S35E-33DCAD1	4477						9.67	10														
02S35E-33DDBA1	4480						13.3	14														
02S35E-34BDBA1	4482						23															
02S35E-34CBCB1	4481						16	18														
02S35E-35BAA1	4505					50	47.3															
02S36E-36CDD1	4636	76	76	76	76	76	76	75.7	75	75	75	75	76	76	76	76	77	76	76	76	76	76
03N26E-10DDC1	5325												205							205		
03N26E-11CAB1	5324						203	202	204				206									
03N26E-11DAD2	5310						35	32.3	34				40									
03N26E-14DAA1	5325	60					60	59.3	60				64									
03N26E-22ABA1	5312	798	799				836															
03N27E-19AAB1	5270	181					159						188							175	173	171
03N29E-01ABB1	4873			306	307	307	306	305	305	304	304	304	304	304	305	306	306	307	308	308	308	308
03N29E-01ABC1	4872							385	384	385	389	391	393	395	398	399	400	400	399	396	393	391

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
03N29E-01DBB1	4883	410		410		408	400	396	395	396	399	402	404	406	408	410	412	411	409	407	403	401
03N29E-13CBC1	4918	84	88	87		70	72	65.5	77	69	72	67	67	82	75.5	70	74	76	76	81	75	77
03N29E-13CCC1	4923			105	87.3	86	85.7	78	91	86	86	80	81	98	89	88	92	92	93	95	91	95
03N29E-14ACC1	4921			195	195		190		155	149	152	147	146	144	142	146	142	141	140	140	137	140
03N29E-14ACD2	4921	57.5	72	66.7	63.5	64	65.3	58	59	59	58	61	57	54	54	60	56	58	59	59		
03N29E-14ADD1	4916	457	458	458	457	454	451	451	451	453	455	456	457	459	461	461	462	461	460	458	454	455
03N29E-14BCB1	4926					463	461	461	461	462	465	466	467	468	470	471	471		470	468	465	466
03N29E-14CAC1	4929								188	189	188	186	185	186								
03N29E-14CBD1	4930					468	466	466	466	467	470	471	472	473	475	475	477	475	475	473	468	471
03N29E-14CDA1	4927								172	172	172	171	171	172	173	172	173	173	174	174	174	174
03N29E-14DAB1	4921	69	70.7	65.8	65.3	64	67	56	69	65	67	62	61		66	67	66	72	73	78	73	76
03N29E-14DAB2	4922	67.9	71.7	64.6	66.3	65.4	67.9	58	69	67	67	63	61		66	67	68	71	71	79	75	
03N29E-14DAC1	4922	71	72	70.7		70	71	54.5	76	68	71	65	64		72	71	72					
03N29E-14DAC2	4922	72.3	74.3	72.4	67	65	69	53	70.5	64	69.5	63	60.3		70	66	71	74	72	79	66	67
03N29E-14DAC3	4921	52.3		52.4	50.5	51.3	56	46	51	50.5	52	52	47.7		51.5	50	52		53		51	49
03N29E-14DBD1	4923								457				434	465	467	468	468	467	468	466		
03N29E-14DBD2	4923	29.5	29.3	26.7	29	29	30	29	29	29	28	28.5	27.7	27	26	29	29.5	29	29.7			
03N29E-14DBD4	4922																			37		
03N29E-14DCB1	4928	114	116	114	87.3	87.3	88.3	78	95	89	87	81	82	97	92.5	88	93	91	93	93	92	94
03N29E-14DCD1	4925			94	75.7	77.7	76	63.5	84.5	76	76	71	73	93	81.5	78	84	81	84	82	79	83
03N29E-14DDA2	4918	459	460	460	458	456	453	453	453	455	457	458	459		463	463	464	462	462	460	455	457
03N29E-14DDA3	4919	113		89.4	68	67	68.3	58	72	68	71	63	63	87	72	69	75	74	74	79	70	74
03N29E-14DDA4	4919								75.5	70	72	64	64	87	75	70	76	75	75	79	70	75
03N29E-14DDA5	4920			44.8	45.5	45.7	47.3	40	45	47	42	42	40		43							
03N29E-14DDA6	4920			49.8	43.5	42.7	42.7	41	44			42	42		43							
03N29E-14DDB1	4922			45.8	49		51	47			45	48										
03N29E-14DDB2	4922			46.8	50			45			46	50			48							
03N29E-14DDB3	4928			55.8	58	55.7	59.7	50	56	56	55	56	54		59							
03N29E-14DDB4	4929			55.5	50.5	45.3	40.3	32	53	54					31							
03N29E-14DDC1	4924			102	77.3	79.3	78	64	86	78	78	71	75	92	82	80	86	83	85	85	86	86
03N29E-14DDC2	4923			45.3	45		47.3	44			43	42	49		42							
03N29E-14DDD1	4921			46	45.5	46.7	46.7	42	46	47	44	42	43		43							

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
03N29E-14DDD2	4921			53.5	47	48.3	49	43	50	49	44	43	44		44							
03N29E-19CBB1	5048	609	609	609	606	601	600	603	604	605	608	609	609	610	612	612	613	611	611	608	608	609
03N29E-23ABB1	4925					462	462	460	460	461	463	464	464	465	468	467	468	467	467	465	462	464
03N29E-23ABB2	4925								221			196	212	217	224	226						
03N29E-23ADC1	4930					468	465	466	465	467	469	471	472	473	475	476	476	475	474	472	467	470
03N29E-23DAC1	4933	181	152	137	108	148	138	96.7	145	176	180	182	184	185	187	177	181	135	130			
03N29E-23DCD1	4938	480	480	481	479	476	473	474	473	476	477	479	480	481	483	483	484	483	482	480	476	478
03N29E-24BAC1	4922		330	330	330	330	330	330	213		213	213		211	213		179	179	181	181		
03N29E-24BBA1	4922	143		138	133	134	134	132	134	132	133	132	132	135	134	133	135	136	136	136	135	136
03N29E-24BBC1	4925				157	156	155	153	155	154	157	153	153	162	162	157	159	162	163	165	164	
03N29E-24DAD1	4916			458	456	453	450	452	451	453	455	457	457	459	460	461	462	461	460	458	453	455
03N29E-24DAD2	4915					453	449	450	450	452	454		457	458	460	461	461	460	459	457	453	455
03N29E-24DDA1	4916					454	451	451	451	453	455	456	457	459	461	461	462	461	460	458	453	456
03N29E-24DDA2	4917					455	452	452	452		456	457	458	459	461	462	463	462	461	459	454	456
03N29E-24DDA3	4916	458	458	458	457	454	451		451	454	455	457	458	459	461		462	461	460	458	454	456
03N29E-24ddb1	4918					455	452			455	456	458	459	460	462	462	463	462	462	459	455	457
03N29E-24DDC1	4918					456	453			456	457		460	461	463	464	465	464		460	456	458
03N29E-25AAA1	4917								69.5	69.6	72.5	70.6	88.2	69.5	66.7	70.7	91.1	71.8	69.2	69.4		
03N29E-25AAA2	4919												461	462	464	464	465	465	463	462	457	
03N29E-25AAB1	4920								118	118	124		122	118	118	118			121	118	123	124
03N29E-25ABD1	4922					461	458	459	458	460	462	463	464	466	468	468	469	468	467	465	460	463
03N29E-25BBD1	4931					469	466		467	468	470	472	473	474	476	476	477	476	475	473	469	471
03N29E-25BDB1	4929					467	465	466	465	467	469	470	471	473	475	475	476	475	474	472	467	470
03N29E-25BDC1	4929					467	464	465	465	466	468	470	471	472	474	474	475	474	473	471	466	469
03N29E-25BDD1	4929					467	465		465	467	468	470	471	472	475	474	475	474	473	471	467	469
03N29E-25CAA1	4929	471	471	472	470	467	465	465	464	466	468		471	472	474	474	475	474	473	471	467	469
03N29E-25CAD1	4929					467			465	467	469	470	471	473	474	475	476	474	473	472	467	469
03N29E-25DCA1	4928							464	464	465	468	469	470	471	473	474	475	473	472	470	465	468
03N29E-25ddb1	4925								460	462	464	465	467	468	470	470	471	470	469	467	462	464
03N29E-36BCB1	4939	482	482	482	480	478	475		475	477	479	481	482	483	485	485	486	485	484	482	477	480
03N29E-36DCC2	4932																482	481	479	477	475	476
03N30E-06ACD1	4872	393		394		388	384	384	383	385	388	391	393	394	397	397	399	399	397	395	392	390

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
03N30E-12CDD1	4938	466	467	467	466	463	461	460	460	461	462	464	465	467	469	470	471	470	470	468	466	465
03N30E-16DDD1	4933						457	456	456	456	458	460	461	462	465	465	466	466	465	464	462	461
03N30E-18CCC1	4910												450	452	454	454	455	454	453	451	447	449
03N30E-19CAC1	4914					447	444	444	444	446	448	449	450	452	454	454	455	454	453	451	446	449
03N30E-19CBB1	4913	379	373	373	373	373	373	373	378	379	378	376	374	375	377	375	378	377	378	377	375	375
03N30E-19CCA1	4913								449	451	453	454		456							451	
03N30E-19CCB1	4915					451	448	448	448	450	452	454	455	456	459	459	460	459	458	456	452	454
03N30E-19CCC1	4917						451	452	452	454	456	457	458	459	461	462	463	461	461	459	454	456
03N30E-19DDC2	4907	448	449	449	447	445	442		442	444	446	447	448	449	452	452	453	452	451	449	444	446
03N30E-30ACC1	4916							452	452	453	455	457	457	459	461	461	462	461	460	458	454	456
03N30E-30BAB1	4913					451	448	448	453	450	452	453	454	456	458	458	459	458	457	455	450	452
03N30E-30BAC1	4915								81	80	83	70	68	80	79	82		80	81	82	83	67
03N30E-30BAC2	4915					15		15														
03N30E-30BAC3	4914					17.6																
03N30E-30BAD1	4913					451	448	449	449	451	453	455	456	457			460	458	457	455	451	453
03N30E-30BBA1	4917								118	118	120	107	117	108	108				106	118	121	118
03N30E-30BBA2	4914												455	457	459	289	289	279		455	451	454
03N30E-30BBA3						24.1																
03N30E-30BBA4	4916					17.1																
03N30E-30BBA6	4917					15.4							24									
03N30E-30BBA7	4916					15.3																
03N30E-30BBB1	4917					455	451	452	452	453	455	457	458	459	462	462	463	461	460	459	454	456
03N30E-30BBD1	4917								119	119	123	120	119	120	120	122	119	122	121	121	122	123
03N30E-30BBD2	4924								66.5	68	69	67		66	65	68	69	67	67	67	70	72
03N30E-30BBD3	4917					21.2						23	21.5									
03N30E-30BBD4	4916					13																
03N30E-30BBD5	4919					12.4																
03N30E-30BBD6	4934					30.4																
03N30E-30BCC1	4920							458	457	459	461	462	463	465	467	467	468	467	466	464	460	462
03N30E-30CAD1	4919							455	455	457	459	460	461	462	464	465	466	464	464	462	458	
03N30E-30CBD1	4920							456	456	458	460	461	462	464	466	466	467	466	465	463	459	461
03N30E-30CCB1	4921	464				460	458		457	459	461		464	465	467	467	468	467	466	464	460	462



Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
03N30E-31AAD1	4915	460	461	461	460	457	455	455	455	456	457	459	460	461	463	463	464	463	462	461	459	459
03N31E-35DCA1	5129	669								665	667	667	668	669	671	671	672		670	669	668	668
03N32E-13BBD1	5121	634								631	632	632	633	635	637	637	637	637	636	635	634	635
03N32E-13DCA1	5164	677	678	678	677	675	673	673	673		675	675	677	679	680	680	681	679	679	678	677	677
03N32E-14CDD1	5158	674	675			672	670	670	670	671	672	672	673	675	678	677	678	677	676	675	674	674
03N32E-29DDC1	5125	657	657	658	656	654	652	653	653	653	655	656	656	658	660	660	661	660	659	657	657	657
03N32E-36ADD1	5251	767				765	763	767		769					771	772	770	769	768	768	768	768
03N34E-32BBC1	5217	722	723	723	722	720	718	718	719	719	720	720	721	723	726	725	726	724	723	722	722	722
03N35E-14DDD1	5035								507	508												
03N37E-02CBD1	4816	171	171	171	170	170	171	171	171	174	173	171	172	172	176	173	176	168	170	172	171	172
03N37E-12BDB1	4752	130	131	131	130	130	131	131	130	133	133	131	133	132	137	134	138	130	129	131	133	131
03N38E-22BAB1	4790	122	124	124	124	123	124	124	124	126	127	125	126	125	129	124	128	123	122	125	125	124
03N40E-08BAA1	5043	172	172	175	173	167	168	167	170	175	175	169	171	172	175	170	175	163	166	171	167	168
03S20E-02DDA1	4604	542	541	535	531	534	536	532	540	543	541	545	545	547	545	546	546					
03S27E-24DDA1	4982	855	856	857	856	854	850	849	848	849	852	855	858	860	863	865	866	866	866	863	861	860
03S31E-16CCB1	4640	230	231	231		227	227	228	228	229	230	230	230	232	232	232	233	232	232	230	230	230
03S32E-04ACA1	4535	115						112	113	114	114	115	115	116	117	117	117	116	116	115	115	115
03S33E-14BBA1	4462	42	42	41	40	38	37.5	38	39.3	40	41	41	42	42	43	43	43	42	42	41	41	42
03S33E-17AAD1	4513	96	96	95	95	93	92	92.7	93.7	94	95	95	96	97	97	97	97	97	96	96	95	96
03S33E-25CCC1	4450	37	36.7	36.7	35.7	34	34	34.5	35	36	36	37	37	38	38	38	38	37.5	37	36.5	36.5	36.5
03S33E-25CCC2	4450	36	35.7	36	35	33.7	33															
03S34E-01BAC1	4454	33				28																
03S34E-01CCC1	4451					23																
03S34E-01DCB1	4453					24																
03S34E-02AAA1	4455					29																
03S34E-02BCC1	4446	24	23.7	23.3		21																
03S34E-02BCC2	4446	24	23.3	23		21																
03S34E-02BCC3	4446	24	23.3	22.7	22.3	20.3	19.7	19.5	21	21.5	22	23	23.5	24.5	26	24.5	25.5	25	22.5	22.5	22.5	23
03S34E-02BDA2	4448					25																
03S34E-02CDC1	4446	29				22																
03S34E-03CDC1	4441	18				16																
03S34E-09CCD1	4431	19				9																

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
03S34E-10AAA1	4443	17				17																
03S34E-16DAA1	4432	31				9																
03S34E-22DAB1	4440		15	14.7	14.3	13	12.5	12	13	15	14.5	15.5	15.5	16	16.5	16.5	16.5	14.5	13.5	14	14.5	15
03S34E-22DAB2	4440		17	17	16.3	14.8	14.5															
03S34E-24BBB1	4460					40																
03S34E-26DBB1	4457							41.7	42.3													
03S34E-28DDD1	4445						30	29														
03S34E-34BAAA1	4445										31											
03S34E-36ABB1	4459						42					44										
03S34E-36BCC1	4455						39				41											
03S35E-04BBAA1	4480						36															
03S35E-05BADC1	4472					27.5																
03S35E-05BCDD2	4465					21																
03S35E-05CBCB1	4467					22																
03S35E-05DDA2	4478					44																
03S35E-06ABB1	4461	22.5				32																
03S35E-06CDA1	4459	32				26	26															
03S35E-08ABAB1	4470					28																
03S35E-09ADD1	4490						41	37.3	42.3													
03S35E-11BCC1	4498					31																
03S35E-12BBA1	4510					32	35															
03S35E-12BBA2	4510					33																
03S35E-18BAA1	4468					33	32							33								
03S35E-20DDA1	4474						41	40.3	42.3													
03S35E-21ADA1	4485							46	48.3	49	46.5	46	51	52	55	51						
03S35E-30ABB1	4471						45	44.7	46.3													
03S35E-32BBD1	4472	56					55	54.3														
03S36E-03ACB1	4540						6	4.67	6.67													
04N26E-04BBA1	5444	38					22						58							27	26	27.3
04N26E-16CBA1	5401						30.5	33	33				73									
04N26E-16CDD1	5395						13	16.7	14				52									
04N26E-18ADB2	5440					55							100									

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
04N26E-21ABB1	5390	591	589	589	585	580	580	581		584	590	597	601	604	608	607	608	601	594	590		
04N26E-25BBC1	5345	10				3.33	4						25									
04N26E-26DCD1	5332	44	40	40.5	38	38	38.3	39	40	42.5	49.5	56.5	58.5	62.5	65.5		61.5	45.5	44	42		
04N26E-32CBB1	5371	203	201	201	198	195	197	198	198	201	205	205	207	207	210	206	208	203	203	201		
04N26E-35BAB1	5335						3	4	5				23									
04N29E-09DCD1	4884	399	398	399	397	392	388	388	386	389	393	396	398	399	402	403	405	404	403	400	397	394
04N29E-14CAA1	4880	396								386	390	393	394	396	399	400	402		400	397	394	391
04N30E-06ABA1	4812	318								308	312	315	317	319	322	323	325		323	319	316	313
04N30E-07ADB1	4819	327	326	328	325	319	316	316	314	317	322	325	326	329	331	332	334	333	332	329	324	322
04N30E-19DAD1	4842																	367		363	360	358
04N30E-19DDD1	4846													368	370	371	373	372		368	365	363
04N30E-20CCA1	4843													364	366	368	369	369		365	361	360
04N30E-22BDD1	4833	354	354	354	353	349	346	345	344	346	349	351	352	355	357	358	359	358	357	355	352	350
04N30E-29BAC1	4852																	377		372	370	367
04N30E-29BCD1	4852																	377		372	369	367
04N30E-29CBB1	4854																	379		375	372	369
04N30E-30ACA1	4850											368	370		374	375	377	376	375	372	369	367
04N30E-30ADC1	4853																	378		374	371	369
04N30E-30DAB1	4853																	379		375	372	370
04N30E-31ABD1	4858	379	379	380	378	374	370	370	368	370	374	376	378	380	383	384	386	385	383	381	378	375
04N31E-16ADC1	4899	412	413	413	412	410	408	408	407		410	410	412	413	416	416		415	414	413	412	412
04N35E-14AAA1	4939		411	410	409	407	405	406	405	406	408	408	409	412	416	414	415	412	412	410	410	411
04N36E-01DDB1	4830	94	95								94											
04N37E-36CCB1	4764	149	150	148	151		142															
04N37E-36CCB2	4764	147	149	148	150																	
04N38E-12BBB1	4830	18	20	18	21.5	21.5	24	20.5	17.5	20.5	23	17.5	26.5	18	25	17.5	22	19.5	18	23.5	22	19
04N38E-12BBB2	4830	44.5	45	44.5	45	44	43.5	43	42.5	45	47.5	44.5	49.5	48	54	48	51	46.5	45.5	48	47	46
04N38E-12BBB3	4830	43.5	44.5	44	45	43.5	43	42	42	44.5	47	45.5	49.5	48	53	47	50.5	45.5	45.5	47.5	46.5	45.5
04N38E-12BBB4	4830	47	47	47	47	45	45	44	44	46.5	49	47	51	50	55	49	52.5	48	47.5	50	49.5	48.5
04N38E-12BBB5	4830	105	106	105	106	105	105	105	105	107	109	106	109	108	115	108	111	105	105	108	107	107
04N39E-16DAD1	4885	52.5	54	52	56	56	58.5	56.5	51.5	56.5	60.5	51	64	51.5	64	51	57.5	53				
04N39E-26DAA1	4922	74.5	76	75	79	76	78	78	74.5	80	85.5	74	84	75.5	91	73.5	80.5	74	70	80.5	79.5	77

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
04S16E-34AAD1	3898		219						218														
04S17E-10BBA1	4500	212						207	281	288	214	256	298	304	212	310	221	215	208	223	214	223	
04S19E-14AAB1	4475		504																				
04S24E-06BBC1	4493	420	421	423	422	419	417	416	414	416	419	423	424	428	430		434	433	432	429	428	428	
04S31E-06BBD1	4631							221	222	223	223	224	225	226	226	226	226	225	225	224	224	224	
04S31E-11ABA1	4465					57	56	57	58	58.7	59.5	60	60	61	62	62	61.5	61	60.5	60	59.5	60	
04S31E-20BBB1	4523	121	120	121	120	118	117	117	118	119	120	120	121	122	123	122	123	122	121	120	120	121	
04S31E-36ABA1	4402	6	7	6	6	5	5.5	5	6.33	7	7	7	8	8	8	8	8	7	7	7	6	7	
04S32E-01CBA1	4450		45.7	45.7	44.3	43	42.7	42	42.5	43.5	43	44	44	45.5	45	45	43.5	44	44	43	42.5	43.5	
04S32E-01CBA2	4450		46.3	46	45	44	42.5																
04S32E-01CBA3	4450		43	44	41	39	38	38	38	38.5	39	39	40	40	41	41	41	41	41	41	41	40	41
04S32E-01CBA4	4450		38.7	38.7	38	36	36	36	37.5	38	38.5	39	39	40.5	41	40.5	40.5	39.5	39	39	39	39	40
04S32E-13CBB1	4411	18	18	17	17	15	16.5	16	17	18	17	18	18	19	18		18	18					
04S33E-03CBB2	4448	39	39.5	38.8	37.9	36.6	36.3	36.2	37.3	38	38	39.5	38.5	39.5	40	40	38.5	39	39	38	38.5	39.5	
04S33E-20CBB1	4419		30	30.7	30	28.7	29.3	28.5	31	31	30.5	31	30.5	32	30.5	31.5	30	30	30.5	30	29.5	30	
04S33E-20CBB2	4420		19	22.7	20.7	18.3	20.7	18	18.5	20.5	20.5	20	18.5	23.5	22	23	20.5	19.5	19	22.5	21.5	22.5	
04S33E-20CBB3	4420		19	14.7	16	15	15	15	14	13	12.5	12	12	12.5	13	13	13	13	13.5	14		16	
04S33E-20CBB4	4420		7	7	6	4.67	4	4.5	5.5	6	6.5	7	7	8	8	8.5	8	7	7	6.5	6.5	7	
04S33E-25DDB1	4384							-12	-11	-11	-10		-10	-9.5	-9	-10							
04S33E-25DDB2	4384							4.5	5	5	5	5	5	6	5.5	5							
04S33E-33CAC1	4366											5		5									
04S33E-33CAC2	4366								5	5.5	5	5	5	5	4.5	5							
04S33E-33CAC3	4366								5.33	5	5	5	4.5	5	4	5							
04S33E-35DAB1	4371								1.67														
04S33E-35DAB2	4371								1.67														
04S34E-01DDD1	4459						41	41	42.3			44											
04S34E-02AAB1	4451						37	37.7	38														
04S34E-05CCD1	4405	4	4	4		4	4	3.33	4														
04S34E-08DBD3	4435							23	22.3	24	25	25.5	25	27	27	27							
04S34E-11AAAD1	4455										41	42											
04S34E-11BBA1	4451											38											
04S34E-15BBA1	4442						30	30	31.3			33											

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
04S34E-15CDC1	4439						30				32	32										
04S34E-16BBB1	4440						29				31	32										
04S34E-16CBCC1	4436											29										
04S34E-16CDD1	4438						26.5	26.7	27.7			29										
04S34E-17CBD1	4420											37										
04S34E-19AAD3	4430							29.3	31.7			30										
04S34E-20BBB1	4434						33	33	33.7			34										
04S34E-21CBB1	4430										21	21										
04S34E-24ABD1	4443		28	28			25					27										
04S34E-25BCC1	4436						24	24	25.3	25.5	25.5	26.5	26	27.5	28	27.5						
04S34E-27AAB1	4435	28	28	27			27.5	25	26.3			26										
04S34E-32ADA1	4423						11	11.3	12.5			14										
04S34E-35DDC1	4438											29										
04S35E-06BBB1	4462						45	45	46.7	46.5	47	48	48.5	50.5	51	50.5						
04S35E-18DABC1	4440										30											
04S35E-22BCA1	4665						231	229	229													
04S35E-25BDC1	4648		201																			
04S35E-25DCB1	4682						214	218	220	225	223	227	229	230	228	227						
04S35E-29DACA1	4500										92	93										
04S35E-30ACC1	4445											35										
04S35E-31CBBB1	4468										54	54										
05N25E-02DCD1	5683						93.5	95	87.3				117									100
05N26E-05DCB1	5592						57	57.7	58.3	60.5	65	65.5	68	67	75	63.5	69.5	57.5	58.5	58.5		
05N26E-08CAB1	5593						114						143								116	116
05N26E-23CDA1	5488	34	24.5	25	23	21.3	23	26	25.5	26.5	48.5	54.5	58.5	58	70	42	62.5	26.5	26	28		
05N26E-28BBB1	5485					23.7	27						61									
05N26E-28DCA1	5460						13	15.5	15													
05N26E-28DCA2	5460							16	15													
05N26E-32DBA1	5518						83						115								81.7	87
05N29E-01BBB1	4805	124	124	123	123	121	119	121	121	121	123	123	123	124	125	125	126	125	125	124	122	122
05N29E-23CDD1	4800	274	268	271	266	260	266	262	265	269	272	273	275	276	278	277	279	277	276	276	271	271
05N30E-11CDD1	4792							256	253	251	264	269	262	270	264	279		276	263	260	257	255

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
05N30E-15ADC1	4795							261	258										268	264	261	260
05N31E-14BCC1	4806	269	269	270	266	262	262	261	259	262	264	265	267	268	271	272	273	272	271	269	268	267
05N31E-15BAD1	4785		209	209	210	208	207	205	204	204	205	205	206	207	209	210	212	212	212	212	211	211
05N31E-28CCC1	4794	267	267	268	264	260	260	260	258	261	264	265	266	269	271	272	272	270	270	268	265	265
05N32E-36ADD1	4839	330	330	331	330	328	326	326	325	326	328	328	329	331	334	333	334	333	332	331	330	330
05N33E-10CDC1	4786	254								250	252	252	253	255	257	256			256	255	255	254
05N33E-13BDC1	4794	266	267	267	266	264	260	259	261	262	264	265	266	269	271	271	272	270	268	267	266	266
05N33E-13BDC2	4795	264	265	265	264	261	258	257	259	260	262	263	264	267	269	269	269	268	265	265	264	264
05N33E-13BDC3	4795	255	256	256	255	253	250	250	250	251	253	254	255	257	260	260	260	258	257	256	255	255
05N33E-17ADD1	4771	229								225	226	227	228	230	233	232	234	233	233	232	231	231
05N33E-23DDA1	4812	286								283	284	284	286	287	291	290			288	287	286	286
05N34E-09BDA1	4791	257	259	259	257	255	252	253	252	254	256	256	257	260	262	261	263	260	260	258	258	258
05N34E-29DAA1	4877	350								347	349	349	350	352	356	354			355	351	351	351
05N35E-01CCC1	4793	237	237								236								239	238		
05N36E-02BDA1	4764	48	48	48	47.5	46.5	45	45	46.5	48	50	51.7	54.5	54.5	55	56	55	53		52.5	51	51.5
05N36E-02BDA2	4764	1	1	2	1	0	-1	0	0	2	4.67	5.67	7.5	9	10	9.5	10.5	8	8	8	6	6
05N36E-02BDA3	4764	-3	-3	-2.5	-3	-3	-3	-3		-3.5	-2	-2	-2	-3		-2.5	-1	-2	-2	-2	-2	-2
05N36E-21DAC1	4801	258	259	260	259	257	255	255	254	256	257	255	257	261	264	259	265	261	260	259	259	260
05N36E-22BBC1	4781	156	163	162	163	161	158				156											
05N36E-22BBC2	4781	127	127	128	126	126	150				135	124										
05N36E-22BBC3	4781	23	23	23	27																	
05N36E-36DCD1	4816	70	70																			
05N37E-08DCC1	4768												1									
05N37E-08DCC2	4768												1									
05N37E-21DBB1	4775	1	0.5	0	0	0	0	-0.5	0	0	0.33	0.5	1.5	2.5	4	2.5	3	1	0.5	1	0	0.5
05N37E-21DBB2	4775	2	2	2	2	2	1				0				4							
05N37E-21DBB3	4775	3	3	1.5	1.5	0	0.5	1	0.5	2	3	3	4	4.5	5	4.5	4.5	2.5	2	2	1	3
05N38E-09DDC1	4825	34																				
05N39E-08DAD1	4830	7	7	6.5	7	6	6.5	6	6	7.5	7	7	7	6	7.5	7	7	7	6.5	7	7	6
05N39E-18CAC1	4823	0	0	-9																		
05N40E-01CCD1	5305	439	439	439	439	442	439	439	439	439	439	439	441	444	446	443	442	440	440	440	440	439
05S11E-33DAC1	2850								21											11.3	9.5	10.3

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
05S12E-13DAB1	3560	350						350	348	349	348	348	348	347	347	347						
05S12E-36BBA1	3280	34																		36.7	35.7	39
05S13E-32CCC1	3275																228					
05S14E-12AAA1	3609							114	116	120	123	124	127	127	127	124	124	118	112	115	114	117
05S14E-25CAA1	3536	125																		120	118	118
05S15E-07DCC1	3593	89	87	85																		
05S15E-23CBB1	3616	93							67											65.3	63.7	71
05S15E-35DBD2	3627	143	144	142	133	129	132	132	131	139	145	144	147	149	156	147		137	129	130	129	134
05S17E-26ACA1	3973	206	205	207	197	191	192	188	189	201	210	210	215	221	225	217	218	200	195	195	194	200
05S21E-03DAC1	4434	373	374													383						
05S23E-17CAA1	4375	312	313	315		311	309	308	307	308	311	314	317	320	322	323	332	325	324	321	320	323
05S25E-22DAD1	4583	498	499	501	500	498	495	495	493	494	497	500	503	505	507	508	511	510	510	508	505	505
05S28E-26BBD1	4941	682	682	682	682	679	678	679	679	681		682	683	684	686	685	686	685	684	683	683	683
05S30E-12BBA1	4502	110	110	110	109	107		107	109	108	109	110	110	111	112	112	112	112	111	111	110	111
05S31E-19DDC1	4427	44	44.5		43	41	41	41	42	43	44	44	45	47	47							
05S31E-19DDC2	4420															46	47	46	46	45	45	45
05S31E-27ABA1	4400	21.1	22.3	20.7	20.2	19	21.6	19.7	22.5	22.8	21	23	24	23.5	22.5	23	23	22	22	22	21	23.5
05S32E-07CCC2	4375	2				1	1													1		
05S32E-18CDC1	4374	-11	-12	-7		-13																
05S33E-24CCC3	4445							30	29	30	31	32.5	32.5	33	33	32						
05S33E-32ACD1	4428		30		26					28												
05S33E-32BDC1	4422				22																	
05S33E-35CDC1	4425	24.9	25	25	24	23	23.1	23	24.3	24.8	25	26	25	27	26	26	26	25	25.5	25	25	25
05S34E-05DADD1	4428										38	38										
05S34E-16BBB1	4429						23	23	24.3													
05S34E-20CBB2	4455	53	53	53	52	51	51	51	52	52.5	53.5	53.5	54.5	56	56	55.5	55.5	54.5	55	54	54	54.5
06N28E-13DDA1	4945	104	103	103	102	97.5	93	91.5	88.5	104	91.5	95	94.7	96	99.5	98						
06N29E-16DDD1	4865	64	60.5	61.5	59.5	54	52	53	53.5	54	56	59	57	59	61	62						
06N31E-10ACC1	4794	213						208			208	209	210	212	215	216				217	216	215
06N31E-12ACD1	4790			210				203			203	204	205	208	210	212			213	212	211	210
06N31E-13DBB1	4795	214								207	209	210	211	213	216	217	218	218	218	217	216	215
06N31E-16DCA1	4784	205								199	200	201	202	204	207	208	210	210	209	208	207	207

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
06N31E-21DCC1	4786									200	202	202	203	205	209	210	211	211	211	210	209	208
06N31E-27BDD1	4790	210	211	211	211	209	207	205	204	204	206	206	207	209	213	213	215	214	214	213	212	211
06N32E-11ABA1	4789	208	208	209	209	207	204	202	201	200	202	203	204	206	210	210	212	211	211	210	209	208
06N32E-26CDB1	4786	221	221	222	221	219	217	216	214		216	216	218	220	223	223	225	224		223	222	222
06N32E-36ADD1	4785	222		223	223	221	219	217	216		218	218	220	222	224	225	226	225				223
06N33E-02BAB1	4783											191										
06N33E-04DDD1	4786		206																			
06N33E-26DDB1	4784	223		224	224	222	220	219	219	218	220	220	222	224	225	226	227	226	226	225	225	224
06N34E-01CDA2	4780												13									
06N34E-10CBB1	4781	9	9																			
06N34E-15BCC1	4785	203	203								199											
06N34E-23BAA1	4785	219	220																			
06N35E-01DAD1	4794	85	85																			
06N35E-10BDD1	4785	93	91								101											
06N35E-14CAD1	4789	100	100								100											
06N35E-21AAB1	4784	100	99	99	99		96	97	97	98	99	99	99	100	101	100	101	100	103	100	101	99
06N35E-27DDA1	4798	236	235	236	235		230	230	230	231	234	234	236	238	241	239	241	238	237	236	236	235
06N35E-32CDD1	4788																			248		
06N35E-32DDD1	4789								240	241	243	244	245	247	250	249	251	248		247	248	252
06N36E-06BCD1	4800	91	91								91											
06N36E-08BCC1	4885	191	185																			
06N36E-11ABA1	4818	72	72	72	71	70.5	69	70	70.5	71	72.3	72.5	73.5	75	75	75	75	73.5	74	73	72	72
06N36E-11ABA2	4818	35	41	41	40.5	35.5	34.5	35.5														
06N36E-11ABA3	4818	37	37	37	36	33.5	32	32.5	33.5	34.5	37.3	38.5	39.5	42	42	41.5	42	39	39	38.5	37	37
06N36E-11ABA4	4818		54.5	55	54	53.5	52	52	53	53.5	54.7	56	58	59.5	60	59	57.5	56	56	55	53.5	54
06N36E-15ACA1	4875	152	152								152											
06N36E-27BAA1	4884	184	184	184	183	181	180	180	182	182	193	185	187	188	189							
06N37E-29ACA1	4824	45	45	44	44	42	41	41	42	43	45	45	46.5	48	50	48.5	50	46	46.5	46	45	46
06N37E-29ACA2	4824	49	49	48.5	48	46	45	45	45.5	47	49	49.3	50.5	51.5	53	52	53	50.5	50.5	50	49	49
06N37E-29ACA3	4824	42	40	41																		
06N37E-29ACA4	4824	41	40.4	40.9	39.5	37	35.5	36	36.5	38.5	41	42	43.5	45	46	45	45.5	43	43	42	41	40.5
06N38E-02DBD1	4885	78	77.5	78	77	74.5	73	72.5	73	75	79.3	78.5	82	82.5	85	83	84.5	81	80.5	80	78.5	78



Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
06N38E-02DBD2	4885	82	82	82	81	78.5	77				82												
06N38E-25ACB2	4826	23	22.5	23																			
06N38E-25ACB3	4826	19	17.5	18																			
06N38E-25ACB4	4827	21	20	21	20	17.5	16	15.5	16	18	21	21.5	27	25	28	25.5	27.5	24	23	22.5	21.5	21	
06N38E-25CCB1	4828	39																					
06N38E-30BAD2	4874		92	91.5	90			88	88	90	92	92	94	95		95	96	94	94	93	92	92	
06N38E-30BAD3	4874	87	87	87	86		82	83	83	85	87	88	90	91		91	93	89	90	89	87	87	
06N38E-30BAD4	4874	89	90	90	90			89	87	89	89	89	90	91		91	92	92	92	92	92	91	
06N38E-35ABA1	4816	27																					
06N39E-10BBB1	4834	23	22.5	23	22	19.5	17.5	16.5	18	20	23	24	27.5	27.5	30	28	29.5	25.5	25.5	25	24	24	
06N39E-10BBB2	4834	23	22.5	23	22	19.5	17.5	18	18	20	23	24	27.5	28	30	28	29.5	26.5	26	25	24	24	
06N39E-10BBB3	4834	23	22.5	23	22	19.5	17.5	17.5	17.5	20	23	24	27.5	27.5	30	28	29.5	26	26	25	24	24	
06N39E-10BBB4	4834	20	20.5	20.5	20	17.5	15.5	17	15.5	17.5	20.5	21.5	24	25.5	28	25.5	27.5	24	23.5	23	22	21.5	
06N39E-13ABA1	4864	18	16.5	16.5	16.5	15	14.5	14.5	13	16	15	16	17	13	19.5	15.5	17	17.5	15.5	15	16.5	11	
06N39E-16DAA1	4835	12	10	11	10.5	9.5	10.5	10	9.5	11.5	10	10.5	11.5	13	12.5	11	11.5	11.5	9.5	10	11.5	10.5	
06N39E-23AAC2	4844	30.9	30.8	30.9	30	27.5	26	25.5	26	28	31	32		35	38	35	37.5	34	33	33	32	31.5	
06N39E-28BBB1	4829	8	9.5	9	9	8	8.5	8	7.5	10	9	9.5	10	7.5	9.5	9	9.5	10	9	9	9.5	9.5	
06N39E-30ADC1	4817	7	6	5.5	5	4	2.5	1.5	2.5	4.5	6.5	7	9.5	9.5	11.5	9.5	10.5	8	7.5	7.5	6	6	
06N39E-30ADC2	4817	9	9	9	8	6	4		4	6	9.5	10.5	13.5	14.5	15.5	14		12	12	11	10	10	
06N39E-30ADC3	4817	8	7.5	8.5	7.5	5	2.5	2.5	3.5	4													
06N39E-35CBB2	4841	9	12	6	8	7	7	6.5	5.5	8.5	8	8.5	7.5	6.5	11	9	10.5	10.5	9	8	9.5	7.5	
06N40E-09BBB2	4887	19.3	18	17.5	17.5	16	14	14.5															
06N40E-15AAA1	4900														22	19	25	23	21	18	18	18	
06N40E-25BCB1	5140								325	327													
06N41E-02BDC1	5132	273	274	271	269	266	264	266	265	267	273	274	277	279	282	279	283	278			274	274	
06N41E-11CDB1	5216	359	360	357	355	354	350	351	349		351	347		363	367	362	368	360			354	356	
06N41E-20BDC1	5116								261	261	268	268	271	275	277	273	278	273			269	270	
06S11E-06BBA1	2680	119	120	122	124	124	126			127	127	127	128	127	127	127	127	128	128	128			
06S13E-05ABC1	3295								205											199	198	198	
06S13E-05DB1	3280	306							304	305	306												
06S13E-08BDA2	3250								133			139	133	138	123	131	99.3	77	76.3	71.3	71.7	71.7	
06S13E-16AAD1	3285	160						159	159	159	162												

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
06S13E-18ABC1	2830							-70	-71	-70	-70	-70	-67	-64	-41	-29	-15	-21	-18	-18	-16	-14
06S13E-25DBC1	3265								212											212	212	213
06S13E-36CDD1	3272	163	163	163					161	163	164											
06S14E-12DAC1	3651	293	293	293																		
06S14E-18AAD1	3352								76											77.3	79	80
06S14E-35DBD1	3472	191							189											191		
06S17E-31BBA1	3917	327																		330	333	330
06S18E-07BCB1	3980	179							171											185	184	184
06S18E-22AAA1	4036	200	201					196	194	198	204	206										
06S19E-19CCD1	4040																231	230	227	224	228	223
06S22E-28CDD1	4223	199						196	194	195	198	200	204	206	209	208	211	211	210	207	206	206
06S29E-13CDC1	4645	308	308	309		305																
06S29E-15BBC1	4730					409		409	410	411	412	413	414	414	415	414	416	415	414	413	413	413
06S31E-16BAB1	4392	16	17	16	15	14	15	14	16	17	16	18	19	18	18	17	18	18	17	16	16	17
06S31E-36DCC1	4400									33												
06S32E-02ABD1	4394				9																	
06S32E-11AAC1	4402	11				8	8															
06S32E-13BAD1	4408				5					5												
06S32E-27ADC1	4417	31.5	31.3	31.4	30.3	29	29	29.1	29.5	30.3	32	31.5	31.5	32.5	31	30	31.5	30.5	30.5	29	29	29.5
06S32E-28ACC1	4407				33																	
06S32E-29DCB1	4403	40				39				39.5												
06S33E-02BDD1	4442		41							42												
06S33E-03BDC1	4424		23		22																	
06S33E-07AAD1	4420				15																	
06S33E-08BBD1	4417				14																	
06S33E-08CBD1	4425				22																	
06S33E-08DDA1	4446		44		43																	
06S33E-15DCA1	4486											86										
06S33E-18AAB1	4423											22										
06S33E-21BCB1	4436		35							34.5												
06S34E-36BDB1	4480														53.7	55	53.7					
07N31E-28DAB1	4891	310					306	304	303	303	304	305	306	308	312	312	313	313	313	312	312	310

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
07N31E-34BDD1	4849	267	267	268	268	266	264	262	261	260	262	262	264	266	269	270	271	271	271	270	269	268
07N33E-05BBB1	4796											204										
07N33E-14DDC1	4783	73	72								70											
07N33E-34AAA1	4784										16	14.7	16	16	15	16	15	14	15	16	16	17
07N33E-35BCC1	4784	29	27.5	26	26		27	26	27													
07N33E-35DDD1	4782	99	99								99	107										
07N34E-03BDD1	4798	21.5									12											
07N34E-03CDA1	4798	23	14								13											
07N34E-04CDC1	4792	13.5	11.5	12.5	7.5	5.5	3	3.5	7	6.5	10.3	13.3	14	19.5	16	18	15.5	13.5	16	12	8	10.5
07N34E-16BCA1	4790	38	36																			
07N34E-23BAB3	4792	14	11								9											
07N34E-24BBA1	4790													19	19	21	17.5	14.5	14.5	13	9.5	12.5
07N34E-24BBA2	4790										12.3	16.7	16									
07N34E-29ADB1	4783	39	39																			
07N35E-13AAD1	4790	6	5.5	6	4.5	1.5	0	1	2	3	5.67	8	9.5	11.5	11.5	11	11	8	8	6.33	5.5	5.5
07N35E-13AAD2	4790	6	6	7	6	4.5	1.5	1.5	1.5	3	4.67	7	9	11	13	12	13	10.5	10	9	7	6
07N35E-13AAD3	4790	1	0.5	1							0											
07N35E-13AAD4	4790	1	0.5	1	0	-1	-1		-1	-1.5	0.67	2	4	6	7.5	5.5	6.5	3	3	2	1	0.5
07N35E-13CCC2	4794													14	13		12	10	9.5	9	8	8.5
07N35E-20CBD1	4818	43.3	38.8	39.3	35.8	31.4	29.1	30.1	30.4	31.6	37.4	40.6	43.1	44.9	46.2	44	44.1	40.6	40	39.5	35.5	36
07N35E-25DAC1	4784												8.46									
07N35E-25DAC2	4784												11.2									
07N35E-26CDD1	4790										8.67	12.3	12	14	13	14	10.5	8.5	8.5	8	6.5	7
07N35E-32DAD1	4779												2.67									
07N35E-32DAD2	4779												3.33									
07N35E-34DDB1	4786		144								148											
07N36E-02ADB1	4935	145	144																			
07N36E-05CAA1	4798	13																				
07N36E-09BBB3	4795												11.5	13	13	12.5	13.5	10	10.5	9.5	7.5	8
07N36E-11CCA1	4855	60	61								61											
07N36E-14CBA1	4789										5.33	6.5	8.5	10	11	10	10.5	7.5	8	6.5	5	5.5
07N36E-20CCA1	4785										0	2.67										

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
07N36E-22ABD4	4792		7	7	6	4	2	2	3.5	4.5	7.33	8.5	10.5	12.5	13.5	12	12.5	10	10	9	7	7
07N36E-22DAB1	4795	14	14																			
07N36E-31BDD1	4792		57																			
07N36E-32BAB1	4791		9								14	15.3										
07N36E-33CBC1	4808	26																				
07N37E-03CCD1	4858	69	68								69								71	70		
07N37E-05BCC1	4909	120	119	119				114	114	116	119											
07N37E-06BCC1	4930										145	147	149	150	152	150	152	148	148	147	145	145
07N37E-14CBC1	4864	79	77																			
07N37E-28CCD1	4849	65	64	65	64	61	60	60	60	62	64	65	67	68	69	68	70	67	67	66	65	64
07N38E-23DBA1	4852	44.9	44.2	44.9	43.9	41.3	39	39.6	39.9	41.6	45	45.7	48.5	49.5	52	49.5	51.5	48	47.5	47	45.5	45
07N38E-23DBA2	4852	38.9	38.7	38.8	38	37.1	36.8	35.8	36.2	37.6	39	39.7	40.9	42	43.4	44	45	43.5	43.5	43	42.5	42
07N38E-23DBA3	4856	43	42	43	42	40.5	40	39.5	40	41	43	43.7	45.5	46.5	48	48	49	47.5	47	47	46	45.5
07N38E-23DBA4	4856	49	48	49							49	49										
07N38E-23DBA5	4856	49	48	49							49	49.7										
07N38E-23DBA6	4856	49	48	48.5	47.5	44.5	43	43	43	45	49	49.7	52.5	53.5	56	53	55.5	51.5	51	50	49	49
07N39E-01CCD1	4904	82.7	82.1	83.2	82.5	79	78	77	77	80	83.7	84.7	88	89	92.5	89.5	91.5	88	87	86	86	85
07N39E-01CCD2	4904		45	51	51.5	52	52				50		52	52								
07N39E-07BDA1	4874	62	59	61	61	58.5	59	57	57.5	59.5	63	64	67.5	68.5	71	68.5	70.5	67	65	65.5	64	63.5
07N39E-15CCB1	4873	26	15	24							24											
07N39E-16DBB1	4873	60.8	60.6	60.9	60	57	54.5	55.5	55.5	58	61	62	65	66	68.5	66	68	64	64	63	62	61.5
07N39E-16DBB2	4873	34.9	33.8	37.8	36	34.5	35.5	32.5	31.5	35.5	39.7	38	45	47	51	49	51	48	48	48	46	46
07N39E-16DBB3	4873	11.1	12.6	15.6	13.5	17	19	15.5	9.5	14	19	18.5	35	36	28	25.5	35	35	35	34	26	24
07N39E-29CDC1	4850	16	10.5	13.5	14.5	13	10.5	11	10	12.5	15	12	19.5	19	21	23	22.5	21	20.5	22	20	20.5
07N39E-34CCB1	4828	17.4	16.5	17	16.5	13.5	11.5	11.5	12	14	17	18	22	22	24.5	22.5	24	20.5	20	19	18.5	18
07N39E-34CCB2	4828		5	3																		
07N39E-35CDD1	4843	7	5.5	6																		
07N40E-05DBC1	4920	12	10.7	9.5	10.5	10.5	12	9.5	10	10.5	12	11	12.5	10	12	10.5	10.5	10.5	9.5	11	10	10
07N40E-08DDD1	4898	17	12	18																		
07N40E-19ADD2	4856	34.6	34.8	35.1	34	30.5	28.5	29	29.5	32	35.3	36	41	40	43.5	41	43.5	39	38	37	36.5	36
07N40E-19ADD3	4856	20.8	19.5	19.9	19	18	17	16	15.5	17.5	20	19	24	22	25.5	22.5	25	22.5	20	20	21.5	19.5
07N40E-19ADD4	4857	9.61	6.5	6.5	7	6	4.5	5	5.5	5.5	6.33	6.5	5	9	7.5	6	8	8.5	5	5	6.5	5.5

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
07N40E-19DCD2	4862		14	18																		
07N40E-23CCB1	4924					48	41	40.5	34	28	47	46	47	45	48	43.5	45.5	46	44.5	46	46.5	45
07N41E-14ABA1	5106	124							120	123	125	123	124	122	128	122	124	122	120	121	121	120
07N41E-32DDA1	4990								126	129	135	135	138	140	143	141	144	141	140	137	138	137
07N42E-06DDA1	5264		269	268	267	270	268	268	265	266	270	268	268	269	275	268	269	266	266	265	265	
07N42E-10DCD1	5330	148	151																			
07N42E-17BAD1	5319	326	329	326	322	325	321	321	318	320	326	326	326	328	335	325	327	321	321	319	318	319
07N42E-19ABA1	5333		348	344	340	341	337	340	338	342	344	345	345	346	348	343	342	339	338	338	337	339
07N42E-32BBB1	5357		451	440	419	429	424	416	409	424	431	425	438		439	430	430	419	422	425	428	431
07N43E-12BCB1	5720		317	310	303	276	277	276	281	292	303	305	318	327	322	315	310					
07S12E-23BAB1	3325			422					356													
07S12E-35BAA1	3406			366					371													
07S13E-05DDD1	3379																177	178				
07S13E-07AAA1	3395																186					
07S13E-09CBB1	3345							94.4	91.2	84.7					90	90.7	91.7	93				
07S13E-09CCC1	3342							173	197	193			193	188	187	187	186	186				
07S13E-09CDC1	3374							108	107	105												
07S13E-09CDD1	3401																219					
07S13E-09CDD2	3403																219					
07S13E-09DCB1	3401																				232	
07S13E-09DCC2	3402																220	221				
07S13E-11CAC1	2880								85	84.3	83.7											
07S13E-17AAB1	3346							111	111	108			115	113	113	121	121	121				
07S13E-17ABB1	3374							145	142	139			146	146	146	147	147	148				
07S13E-17CCB1	3375			521																		
07S13E-19ADD1	3388							44	40	39			49.5	64.6	68	69	69.6	70.1				
07S13E-19DDA1	3410							131	123	122			122	119	119	119	118	119				
07S13E-24ABC1	3095								277	279	279											
07S13E-27AAB2	2885									82.7	82											
07S13E-27ABB1	2885								85	83.5	15											
07S13E-29ACD1	3440							100	106	118			135	134	135	136	136	137				
07S13E-30AAD1	3433							78.4	80.2	85.3												

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
07S13E-30DAA1	3445							147	147	148			150	148	145	149	147	146				
07S14E-05CDD1	3311	163							162											164	184	163
07S14E-19BDD1	3214								57	58.3	59											
07S14E-21AAA1	3350	186								187	189											
07S14E-25BCB1	3335	91							90	92	93											
07S14E-28DCB1	3275								99											101	102	101
07S14E-29CDC1	3267								100											91	91	91
07S14E-31ABA1	3285								194											192	194	195
07S14E-33BBB1	3271							103	103	104	104	105	105	105	108	106	109	107	104	103	103	104
07S14E-35CCB2	3280										130	119	115	113	111							
07S14E-35CCB3	3280										14	16.7	18	19	20							
07S14E-35CCB5	3280										172	172	172	173	174							
07S14E-35CCB6	3280										75.5	73.7	75	76	77.3							
07S15E-12CBA1	3600			238	236	233	232	232	229	233	236											
07S15E-12CBA2	3600			238	72.7	74	75	75	76													
07S15E-12CBA3	3600			173	171	169	169	169	167													
07S15E-12CBA4	3600			173	171	169	169	169	167	170	173	173	174	175	179	177	177	175	173	171	171	169
07S15E-12CBA5	3600			78.5	77	74.5	74.7	74.7	72.3	75.7	78.3	78	79	81	84.3	82	83	81.3	78.7	77	81.3	135
07S15E-32DDC2	3402	140	143	142					138	141	143									143		137
07S15E-36DCA1	3484	148							146	149	150											
07S16E-14ADD1	3746	291							289											292		
07S17E-06ACA1	3880	319	318	318	316	314	314	314	312	315	318	318	319	320								
07S17E-26DCB1	3925															327						
07S17E-33BBA1	3842								283	285	287											
07S20E-33AAA1	4288	431	432																	438		
07S21E-08BB1	4345	397	398																			
07S24E-22CCB1	4291								220	217	219	222										
07S24E-31ACB1	4305								242	242	245	247	250	252	255							
07S25E-19BAA1	4320	246	247	248	247	245	243	242	242	243	245	248	250	252			258	258	258	255	253	253
07S25E-27CDA1	4299	218			220																	
07S25E-29CAA1	4329				253																	
07S25E-31BDD1	4272				197																	

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
07S25E-34CAD1	4301	218	219	221	221	219	217	216		216	219	221	224	227	229								
07S26E-14CCC1	4403		313	315	314	312	309	308	307	308	311	314	316	320	322	323	324	324	324	321	319	319	
07S28E-25CCC2	4517	258	266	267																			
07S29E-12CCC1	4565							252	252	253	254	256	255	256	257	256	257	256	256	255	256	255	
07S30E-13DCA1	4386	44			41.7	41.3																	
07S30E-14DCC1	4415				53.7	52.3	56																
07S30E-15AAA1	4468				118	119	119																
07S30E-24DDC1	4394	55	54	55.5	53.3	53.3	53.7	53.7	54.7	55	57	55	57	57	58	59	56	54	57	54	54	54	
07S30E-25ADD1	4394				66.3	64.7	65																
07S30E-26DDD1	4395	57			56.3	55.3	56																
07S30E-28BBC1	4534	197	197	198	195	193	192	193	195	196	197	198	197	200	199	197	198	197	196	195	195	196	
07S31E-11BDD1	4422	60				55	55			58													
07S33E-06CDA1	4460									37.7	37												
07S33E-06CDA3	4500										43.7		42.5	43	42								
07S33E-06CDA4	4500										34		37	38	35								
07S33E-15DBB1	4880									87.3													
07S33E-20CAD2	4560												32.5	33	28								
07S33E-20DBD2	4560												39.5	40	34								
07S33E-29DBB2	4550									35.3	34.1												
08N33E-14ABB1	4807	57																					
08N33E-14BBA1	4807										57	68.3											
08N33E-15CAD1	4805	57	58								59									61	82		
08N33E-18CAA1	4830	241																					
08N33E-25BBB1	4794		12																				
08N33E-33DDD1	4790											72.7											
08N34E-05BBA2	4816	34									33												
08N34E-11CDC1	4860		72																				
08N34E-11DCC1	4870										82.3	84	86.5	88.5	89.5	88.5	89	84.5	86.5	84	82.5	83	
08N34E-15DCA1	4822	36	35								35												
08N34E-17CCC3	4809	45	43.5	45	42.5	42	38.5	39	41	40.5	43	46.3	45	53	46.5	54	49.5	43.5	49.5	44.5	43.5	49	
08N34E-17CCC4	4809	44.5	45	46	45	44	41	41	40.5	41.5	44.7	45.3	49	49.5	51.5	50.5	52	48.5	49.5	48.5	47	47	
08N34E-17CCC5	4809	169	168	169	168	167	164	163	164	163	165	167	166	172	173	174	173	172	173	169	169	170	

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
08N34E-17CCC6	4809	224	224	224	224	222	220	218	217	216	218	219	220	223	225	227	227	227	227	226	226	224
08N34E-17CCC7	4809	28	26.5	27.5	25	21	18.5	20	21.5	23	25.7	27.3	29	30	31.5	30	30.5	28.5	30	27.5	25.5	27
08N34E-27CDD1	4805										31.7	34.7	34	39.5	37.5	41.5	36.5	33.5	37	32.5	29.5	32
08N34E-29CCC1	4797	15	14																			
08N36E-03DBD1	4853										56	57	59.3	61	62.5	59.5	63					
08N36E-03DCD1	4845																	54	54	53	51	51
08N36E-09ACC1	4842	24																				
08N36E-10BDD1	4837										29	31	32.5	34	34	35	36	37	37	37	37	37
08N36E-21DCD1	4810										21.8	22.7	24.5	27	28	26.5	27.5	24	24.5	23	21.5	21.5
08N36E-28ACD1	4807	19	19																			
08N36E-28ACD2	4807	19	19																			
08N37E-10CBD1	5060	277									227	277							279	278		
08N38E-06DDA1	5338	552																	554	553		
08N40E-01CAD1	5161	336	336	336	335	330	327	327	327	330	335	336	339	341	345	342	344	339	338	337	336	336
08N40E-06CCC1	5090												278	280	283	281	283	278	277	276	275	274
08N40E-21DDD2	4964	138	138	138	137	134	131	130	131	133	138	139	142	144	147	145	147	142	141	140	140	139
08N40E-21DDD3	4964	139	139	139	138	134	130				138											
08N41E-25CBB1	5075								71.3	75.7	76	70.3	74	71.3	78.3	67.5	73	69	66	74	72.5	63
08N41E-33ABB1	5010								49.7	53	54.7	53	55.3	54	56.5	63	53	61	59.5	62.5	60	64.5
08N42E-09BAB1	5200								74.7	92	83	86.7	85.3	86	83.5	80.5	75	78	76.5	105		
08N43E-06BAA1	5295								38.3	43	44	45	49.3	48	46.5	43.5	39.5					
08S13E-23CCD1	3390	69.5	69.5	71	70	70	70	70	70	70.5	70	70	69.5	69	69	69	69.5	70	69.5	69.5	69.5	69.5
08S13E-26AAD1	3330							145	124	110	154	139	137	141	119	120	156	100	92.5	97.5	84.5	79.5
08S13E-27DDA1	3408								129	186	186											
08S13E-32ADD1	3637			258																		
08S13E-35ACD1	3479	182		201					142													
08S14E-03DDA2	3255	61							59	61	62.7											
08S14E-05BAB1	3222									139	139											
08S14E-09BC1	3222								46	48	48.7											
08S14E-09CBB1	3200								73	73.5	74											
08S14E-09DCA1	3230	80							79	80	81.3											
08S14E-10BDD1	3232								45	46.5	47											



Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
08S14E-12CBC1	3272	67	68	68					65.5	67.5	68.7	69.5	69	70.3	71.7	70	70.5	70	69	69	68.5	68
08S14E-15BAA1	3231								44	46	46.7											
08S14E-16ACC1	3204								62	63	63											
08S14E-16CBB1	3175	39.3	39.8	39.8	39.8	39.3	39.5	39.4	39.3	39.7	40	40	40.2	40.7	41.2	40.9	40.9	40.6	40	40	40	40.7
08S14E-21ABA2	3262								31											31	30	29.5
08S14E-23AAA1	3305	108							107											112	116	113
08S14E-30DDB1	2910							-182	-181		-183	-181	-182	-183	-181	-166	-167	-168	-160	-152	-156	-166
08S14E-33CBC1	2890							-94														
08S15E-04DAA1	3382	101							100	102	105											
08S15E-16CCC1	3345	80							79											84	83	83
08S15E-28AAD1	3367	99	103	101					101													
08S15E-32CBB1	3308							71	70	71.7	73	73.3	73	75.7	76.5	76.7	76.7	74.5	74.3	73	72.7	73.3
08S15E-36CBB1	3416	131							129											134	143	142
08S16E-17CCC1	3490								160	163	165	164	165	168		167	169	167	165	165	164	164
08S16E-18AAA1	3516	171	164	173	174	170		175														
08S16E-21AAA1	3582	195							191											193	192	193
08S16E-26BCC1	3620	178							176											180	180	179
08S17E-25BDD1	4042	415							412											421	419	420
08S17E-32AAA1	3831	292	289	289				287	286	288	291	291										
08S17E-33DAD2	3285												255	256	259	257	258	259	258	255	258	255
08S18E-21BB1	3992	359	360	360																		
08S19E-05DAB1	4076	277	278		279	277	276	275	272	274	278	279	282	284	289	248	289	288	286	283	282	282
08S19E-34DAD1	3974	159							153					164						164		
08S21E-26ADB1	4250	335										335	337	339	342							
08S21E-35CCC1	4217								317	319												
08S22E-35DCC1	4247								206	206	207	209	210	212	212							
08S23E-01CCC1	4268								214	216	217	219	222	225	226							
08S23E-05ADA2	4297								248	245	247	249	251	253	255							
08S23E-15BAD2	4268	220	219	220	219	218	217	216	214	215	217	220	222	225	226							
08S23E-19DBC1	4266								220	221	224	224	226	228	229							
08S23E-27BDC1	4235	187	188	188	188	188	185	184	183	184	186	188	190	197	198	199	197	197	196	194	203	192
08S23E-28CCB1	4238								188	188	190	192	194	196	197							

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
08S24E-02DAB1	4249	173	173	174	174	171	170	168	168	170	170	174	176	179	181								
08S24E-08ADA1	4253	180	184	185	184	182	180	178	178	178	180	182	183	184	187								
08S24E-14CDC1	4222								141	141	145	148	149	151	153								
08S24E-18BCA1	4248								185	186	190	192	194	196	199								
08S24E-31CDC1	4243								169	169	171	174	176										
08S24E-31DAC1	4227	155	156	157	157	154	153	152	152	153	155	158	159	162	165	166	167	168	167	164	162	163	
08S25E-03BBB1	4294								212	212	214	217	220	223	225								
08S25E-06ADD1	4253								170	170	173	176	178	181	183								
08S25E-15CCA1	4245								160	159	161	164	167	169	171								
08S25E-16DAC1	4243	162	163	165	167	163	158	157	157	158	161	164	168	169	173	173	175	176	174	172	175	169	
08S25E-23BBB1	4253								166	167	169	172	175	177	180								
08S25E-36DAA1	4209	112	112	114	114	112	110	109	109	110	112	114	116	118	120	121	123	122	120	119	118	118	
08S26E-03DCC1	4347		259	260	260	257	255	254	253	254	256	259	262	265	267	269	270	270	270	267	265	265	
08S26E-27ABA1	4238	138	137	139																			
08S26E-33BCB1	4213	111	112	113	113	111	110	109	109	110	113	114	117	118	121	121	123	123	121	119	119	118	
08S26E-33BCB2	4213	24	23.5	23	21	24	22.5	21	23.5	24	24	25	24	24	23	24	24	23.5	22	23	22.5	23	
08S27E-07DBC1	4325	170															173	173	173	172	171	171	
08S27E-23DDD1	4296	75	75	74.5				71	72	73	74	75	76	77	78	78	79	78	77	74		76	
08S27E-31DDA1	4202	27	27.5	28	27	26	25.5	25.5	26	26.5	27	29	29.5	30	31	31.5	32	32	31	30.5	29.5	30.5	
08S28E-01AAA2	4495					226		226	226	227	229	230	230	231	232	230	231	231	231	229	229	229	
08S28E-21AAC1	4398	162						157	157	158	160	162	162	163	164	163							
08S28E-32CDD1	4379	160						157	157	158													
08S29E-21ADD2	4436				188	186		185	186	187													
08S29E-23BAB1	4447	187			186	185																	
08S29E-34CBC1	4389	149	148	149	148	148	148	148	147	148	148	149	150	150	151	151	151	151	151	150	149	150	
08S29E-34CBC2	4389	152	152	154	153	152	155	156	156	157	158	159	159	160	160	160	160	159	158	158	157	158	
08S29E-34CBC3	4389	92	93.5	95	96	97	99	99.5	101	102													
08S30E-18CCA1	4397	137			145	146																	
08S30E-23DCC1	4512	207	208	208	208	208	207	206	206	204	205	205	205	206	205	205	205	205	206	205	205	204	
08S31E-04CBB1	4568	242	240	240	239	237	236	237	236	237	239	240	241	240	241	239							
09N33E-11BAC1	5010	74	76								80												
09N33E-12BAC1	4898	180	181								180												

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
09N33E-13BAA1	4893	174	174								173												
09N33E-20ACC1	5091		426								433												
09N33E-24BAA1	4878	174									175												
09N33E-36ACB1	4823										62								65	65			
09N34E-02DAC1	4938										155												
09N34E-11ADD1	4945	156	156	157	156	152	148	150	151	152	156	157	159	161	164	161	164	159	160	158	156	156	
09N34E-27BDB1	4853	65	65								65								73	69			
09N34E-29DAA1	4839	56.7	55						52	55.7	62	63	61	69.5	64	66	63.5	61					
09N34E-29DAA2	4839	56	55						52	55.7	62	63	61	69.5	64	66	63.5	61					
09N34E-29DAB1	4838	55	56								57								60	60	57.5	60	
09N36E-04BAA1	5055	255							258	260	263	265	266	269	271	269	270	266	267	261	263	263	
09N36E-15CCC1	4952	158	157								157	158	161	162	164	162	164	160	160	159	157	157	
09N36E-21CCA1	4920	128	128																				
09N36E-27BCB1	4300										111												
09N36E-31BAD1	4919	126	126																				
09N36E-33CBB1	4865	78	77.8	78	76.8	73.8	71.8	72.6	73.3	74.7	78.1	79.3	81.3	83.1	84.8	82.5	84.4	81	81	79	78	78	
09N37E-06BBD1	5175	379	377																				
09N37E-06BBD2	5175	379	377																				
09N38E-05BBA1	5495												703	707	708	706	708	704	704	703	701	701	
09N39E-04AAC1	5668			847		841	836	835	837	839		847	850	852				850	849	847			
09N40E-05DDD1	5535			709		702	696	697	697	701	706	709	711					711	710	707	707	706	
09N42E-34DDA1	5228	11	12	10.5	9.5	10.5	11.5	10.5	10.5	13.5	13.5	14.5	14	14.5	14	13	11.5	11.5	11	14			
09S13E-20CCD1	3805	451	448	449	447	446	440	441	438	436	434	432	431	429	427	426	425	424	423	421	422	422	
09S13E-22DDD1	3698			323					321														
09S13E-32CDD1	3810	478	480	490	487	483	480	478	478	462	449		439	431	426	424	419	416	404	414	414	418	
09S14E-03BAA1	3209	74	74.5	74.5	74.5	74	74.5	74	74	74.5	74.5	75	75	75.5	76	75.5	75.5	75.5	75	75	75	75	
09S14E-04BBD1	2938	-147	-111	-111		-90	-81	-78	-77	-74	-91			-86	-80	-78	-65	-54	-69	-71	-72	-74	
09S14E-06CDA1	3400			106					109														
09S14E-09ADC1	3000					-120	-115	-114	-116	-112	-132			-109	-136	-141	-122	-126	-121	-122	-120	-123	
09S14E-13DDD1	3514		35	12			17	17	7.67	7	8	14.5	15	18	15	18	19.7	21	22	35.7	48	21	
09S14E-14BDB1	3127		-297			-236	-245	-289	-254	-251	-246			-206	-205	-164						-194	
09S14E-14CBA1	3205							-317															

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
09S14E-17BAB1	3358	154		158					161													
09S14E-32BCC1	3595			48.3																		
09S15E-16DDD1	3572		44	43				41														
09S15E-24CBB1	3560			82.3					87													
09S15E-30CAD1	3675			70.3					69													
09S15E-31DCC1	3825			46.3																		
09S15E-34DCC1	3775			90					89													
09S16E-07DCA1	3448	110	111	111	113	112	115	110	109	112	113	112	113	114	113	113	114			113	113	112
09S16E-09CCA1	3508	136							136											139	143	144
09S16E-11DDD2	3580	106							106											110	110	109
09S16E-20ADD1	3487						-196	-197	-199	-202	-202	-201	-198	-189	-174	-171	-172	-169	-168	-169	-168	
09S16E-20BDD1	3515			176					175													
09S16E-21DCD1	3545	14		12				14.3	16.3	16.7	16.7	16.3	16.7	16.3	16.7	16.7	16.7	16	15	15.5	16	16.5
09S16E-27CC1	3585			34.5																		
09S17E-20CAA1	3632							301	299	300	306	306	305	310	311	307	308	311	309	311	308	309
09S17E-27BAA1	3641	138							137											138	138	137
09S17E-28BDA1	3612	-118	-118				-74	-63			-88	-79	-70	-44	-20							
09S18E-04BBB1	3852	225							212											219	218	218
09S18E-35CCA1	3818	141	143																			
09S19E-25BBC1	3932	125	127	129	128	126	124	123	122	124	127	127	129	131	133	132	134	134	133	131	130	131
09S20E-01DAA1	4211	370	371	373	372	370	368	368	366	367	371	370	373	377	382	380	381	382	379	377	375	376
09S20E-22BBB1	4083	255																		262	261	261
09S21E-01CAB1	4290	334	333	335	334	332	331	331	331	331	333	335	336	338	341							
09S21E-03CDD1	4198								316	316	319	321	323	327	330							
09S22E-07ADA1	4239										285	288	290	293	297							
09S22E-11BAD1	4213								202	199	200	204	206	208	212							
09S22E-15ACA1	4209								246	243	246	250	251	255	259							
09S22E-19BCB1	4203	330							317	312	315	317	319	322	323							
09S22E-20AAB1	4209								259	259	259	261	263	266	271							
09S22E-33ADA1	4192	237	237		238	238	236	236	235	235	237	238	240	242	244	245	246	247	246	245	244	244
09S22E-33DAD1	4197								268	270	272	275	278	280	284							
09S23E-06CDA1	4206	163	162	163	163	161	160	160	160	160	161	164	165	166	168							

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
09S24E-31BAA1	4151	22	23	23.5				24														
09S25E-01ABD1	4210	100	100																			
09S25E-03CAC1	4157	45.8	47.6	48.8	49.2	47.9	47.3	46	47	48.7	50.7	53.5	54.7	55.3	58	58.3	60	59.3	56.7	57	55	55
09S25E-18DDA1	4206	27	27	29.3	29.7	27	27.3	26.7	26.7	29.7	32.3	34.3	36.3	37.3	39	39.7	41.7	40.7	36.7	36.7	36.7	36.7
09S25E-23DBA1	4267	136	136	138	138	136	136	135	136	138	141	143	145	146	148	148	151	149	146	145	145	146
09S26E-07AAB1	4200	70	70	73	73	71	70.5	69.5	70.5	72.5	76	78	80	80.5	84	83.5	86	84.5	81	81	81	80.5
09S26E-07AAB2	4200	70.3	71	73.7	73.7	71.5	71	70	70.5	73	76.5	78.5	80.5	81	84	84	86.5	85.5	81.5	81.5	81	81
09S26E-07AAB3	4200	24.7	22.3	25	24.3	22	22.5	20.5	19	20	27	23.5	25	26.5	28.5	29	30.5	29.5	30.5	29.5	28.5	28.5
09S26E-10DDD1	4217					86.5	87.5	86.3	86.5	88.5	92		96	96.5	99	99	101	100	96.5	96	96.5	96
09S26E-13CCC1	4281	150						151	150	155	156	158	160	161	163	164	165	164	161	161	160	160
09S27E-25DDB2	4200							18.3														
09S28E-18BAD1	4217	13.5	14	14	13	12	12	12	13	13	14	14.5	15	15	15	15	15.5	15.5	14.5	14.5	14.5	14.5
09S28E-18BAD2	4217	11	10.5	12	12	11.5	10	10.5	10	10.5	13	14	16.5	17	19.5	19.5	21.5	20.5	21.5	20.5	19.5	19.5
09S28E-18BAD3	4217	31	31	30.5	30	30	30	30	29	29	29	28	28	28	28	28	28					
10N34E-29AAC1	4990	225	225								225											
10N34E-29BDD1	5030	258							252	169	260	262	265	268	269	268	269	273	267	265	261	261
10N35E-13CBC1	5151	357	356						350	352	356	357	359	360	363	367						
10N35E-32DBA1	5030										240								242	241		
10N36E-21CCC1	5140																356	351	352	350	349	348
10S13E-02DCD1	3725			258				260	259	261	261	258	257	257	260	258	258	257	255	255	257	
10S13E-10BBC1	3823								378	374	369	365	364	362	360	356	355					
10S13E-11ABC1	3765			174																		
10S13E-34DAA1	3905			129																		
10S14E-19CAD1	3885			121																	122	
10S14E-35DCC1	3980			133																		
10S15E-08DDA1	3930			136																		113
10S15E-20CDD1	4030			135																		135
10S15E-26DDA1	4059	219		219					219													
10S16E-03DDD1	3705		67	67.7																		
10S16E-06CCB1	3730	54		54.5					56													
10S16E-07DAC1	3780			35.3				33.7	35.7	36	35.3	34.7	35.7	35	36.3	36	35	35	33	35.5		
10S16E-15DDC1	3817		55	57.3																		

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
10S16E-22CBB1	3905			116																		
10S16E-26CBB1	3985			178																		
10S16E-29BDA1	3965			128																		
10S17E-02DDC1	3705			26.5					27													
10S17E-04CDA1	3661		-73			-60	-28	-30	-42	-53												
10S17E-05DAA1	3650					-86	-59	-56	-68	-79	-77	-74	-69	-56	-36	-36						
10S17E-05DCC1	3660			26.7																		
10S17E-10BDA1	3711						11.3	15	8	2									124	150		
10S17E-12ADD1	3790								109											109	111	110
10S17E-14CCD1	3788		48	48			48.3	48	48.3	48	49	48.3	48	50	50	50	50	50.5	51.3	51	52	52
10S17E-19CCC1	3797		12	13																		
10S17E-25ABB1	3825			36.3																		
10S17E-29ADD1	3865																			91	91.3	
10S17E-33BBA1	3927			151																150	150	151
10S18E-18DCD1	3845			128																		
10S18E-20DDD1	3919	177	178	177	178	179	179	178	180	179	179	178	179	180	179	179	177	176	176	178	181	179
10S18E-31BBB3	3870			36																		
10S18E-35BCC1	3995			171																		
10S19E-18CDC1	4010			267		261			257													
10S19E-22DDA1	4108			160		159			165													
10S20E-10ACD1	4221	378							383											395		
10S20E-27BCC1	4182		340	341	340	338	335	337	335	337	340	340	340	344	348	346	346	347	346	343	341	342
10S21E-26AAA1	4197	257	257	261	266	260	257	257	255	256	261											
10S21E-26AAA2	4197											263	265	268	271	271	273	273	273	271	270	271
10S21E-28BCB1	4157		311	314	313	312	309	309	308	311	314	315	315	319	323	320	322	323	320	318	316	318
10S22E-03CBD1	4221								295	296	299	302	304	307	311							
10S22E-10AAD1	4196							83.7	83.7	83.3	84	83	83	82.3	83.3	83.3	83	83.5	82	82.5	82.5	83
10S22E-20CDC1	4150	223	223	228	228	227	224	225	224	225	229	232	234	240	241	241	243	242	244	242	240	243
10S22E-22CCC2	4150								18													
10S22E-26ADA1	4155					26			26.5													
10S22E-35BCB1	4201								216													
10S23E-28AAC1	4187								37													

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
10S23E-30DCC1	4171					118		242															
10S23E-35AAA1	4176								37														
10S24E-21ABB3	4153							9															
10S24E-22BBB1	4150							55															
10S24E-36CDC1	4258	34	34.5	33.5																			
10S25E-10ABB1	4304							173	173	176	178	181		184	185	186	188	208					
10S25E-17ABD1	4312	194	199	198																			
10S27E-30CCC1	4418	139	142	140				135	140	141	144	147	151	157	154	161	163	164	165	168			
11N35E-31DBB1	5349	235																					
11N39E-07DBC1	6244												536	541	546	544	545	532	528	524	523	518	
11S14E-09ABA1	3980			125																			
11S14E-19AAA1	4025			210				210	210	209	211	208	209	206	211	209	206						
11S15E-02BBB1	4142		232	231				229	229	231	230	230	229	230	229	229	229	227	226	225			
11S15E-07ACB1	4108	231	231	232	232	229	231	230	231	231	232	232	232	231	231	230	232	229	228	229			
11S16E-20CCC1	4390			405											397								
11S17E-03CDC1	4010			142																			
11S17E-09CDC1	4174		287																				
11S17E-16BCB1	4210			331																			
11S17E-25DDD2	4139	94	92	85.7	91	85	88	83	87	90	89.5	90	91.5	89.5	90.5	91.5	91.5	89	87	89			
11S18E-01ABB1	4115			207																			
11S18E-17CAD1	3995			42.3																			
11S18E-35DBC1	4210			136																			
11S19E-13CDC3	4151					62						71.5	68.5	78.7	65.3	66.7	62.7	61.7					
11S19E-14ABB2	4200					225						233	235	235	238	232	228	225	219				
11S19E-14CDD1	4180											208	216	212	218	213	199	187					
11S19E-17ABA1	4229	326	326	329	330	327	323	325	323	324	327	327	330	333	335	332	333	328	326	322	320	322	
11S19E-23CDA1	4190	233	201	207	239	203	196	222	297	241	249	274	225	270	232	216	198	207	208	192	217	217	
11S19E-24CBC2	4189					154						168	184	208	128	90.8	22.7						
11S19E-24CCA1	4177													115	118	111	107	101	92.6	93.2	92.6		
11S19E-26ACC2	4196					200								226	124	103	30						
11S19E-26ADD2	4196													158	162	215	206						
11S19E-26ADD3	4196															221	193	197	184	193	188		

Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
11S19E-26CDD2	4210															243	224					174
11S19E-26DCC5	4209															146	4.5					
11S19E-27CAD1	4192			234												261	257	249	251	235		
11S19E-30ADD1	4157	91.5	90	94	94	91.5	87.7	88	86.3	91	93	94	96	99	102	99	100	99	97.5	95.5	96	97
11S19E-31ADD1	4198	152	146	159	165	177	158	160	153	164	173		164	183	191	180	197					
11S19E-35AAA1	4207															258						
11S19E-35DDD1	4240															323	309		291		287	
11S19E-36CAD2	4227							62.7	128	128	69	132	132	142	102	104	2.25					
11S19E-36CDA1	4227															119	98.1	103	103	105	102	
11S19E-36CDD1	4235			264												298	285					
11S20E-21ACB1	4164	74		76		72	72	71.7	72.5	75	79	81	83	86	88	88	88	84	78	77		75
11S20E-24DDD1	4258	241	244	252	255	256	249	254	256	263	269	276	282	287	292	295	299	299	302	301	301	306
11S20E-28DDC1	4204															168				114		
11S20E-31CDA1	4225															118						
11S20E-31CDA2	4225																184	182	180	174	171	
11S20E-31CDC1	4230															151				142		
11S20E-32CAD1	4214															120						
11S20E-33DAD1	4245	179	193	192	194	194	193	199	203	212	219	224	234	220	237	235	224	215	200	194	201	
11S20E-34CBA2	4245															242	35.3			157		
11S21E-11ADD1	4385	469		476	475	474	469	471	469	470	433	479	482	485	490	490	493	492	494	491	489	493
11S21E-14BAA1	4361					464		460														
11S21E-15BBA1	4338			491	490		485	487	485	484	452	483	442	420	442	444	457	448	446		494	495
11S21E-23CBC1	4392			483		483	480	480	478	482	488	492	496	499	505	505	508	510	510	510		510
11S21E-25AAA1	4376			459	460		454	456	453	455	465		467	469	475	475				476	475	478
11S21E-33BBB1	4323			340		334	328	329	330	334	339	345	355		339	377		376		382	380	382
11S22E-14DAC1	4243					317	315	315	313													
11S22E-16BBC1	4321	394	389	398		397																
11S22E-26ACC1	4269			341	345		340	341	340	340	345	361			358	358	360	360	361	359	358	361
11S22E-32CCC1	4310	384	384	389	389	388	385	385	386	387	393	396	396	405	408	406	408	408	411	408	404	408
11S22E-35CCC2	4295					370	367	369	368	369	375	378	383	385	392	390	395	393	395	392		393
11S23E-08CDD1	4228							50.3														
11S23E-09ABB1	4217								38													



Depth to Water: Spring 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
11S23E-14DDD1	4230							33	34.3	34.5	35.3	35.3	35.7	36	37.5	36.5	38	38	37	37.5	38	37.5	
11S23E-33CCC2	4276					331	323	325	327	333	345												
11S23E-34CDC1	4271	333	334	338	340	338	334	335	337	341	347	348	348	357	359	360	358	357	360	357	353	356	
12N39E-24DDA1	6447											195											
12S16E-12DDD1	4360			162				157															
12S17E-16DCC1	4440		240	239																			
12S19E-02ACD1	4282							331	333	349		355	366	371	375	362	350	333	338				
12S19E-02ADC2	4278														168	285	31						
12S19E-02BBB1	4268	314	314	323	320	309	305	315	317	334	339	340	345	357	362	358	345	329	329	324	323	338	
12S19E-02BBC1	4268	311	313	320	318	309	304	316	316	326	334	340	355	358	361	357	348	329	327		326	332	
12S19E-03ADD1	4295					332		293	341	359	358	374	370	378	387	383	369	359	359	353	351		
12S20E-03CAC2	4330																338			299			
12S20E-04DBC1	4320	229	227	232	231	229	224	225	227	230	238	243	245	249	250	251	249	248	247	242	237	238	
12S20E-06BAC2																245	220						
12S20E-06BBD3	4238															254	210						
12S20E-06BCA1	4237					256										354				329	321		
12S20E-25CCB1	3795	344	346	359	358	360	350																
12S21E-02DAA1	4361	398	400	406	406	402	395	398	396	401	411	418	419	435	436	437	440	450	446	443	438	446	
12S21E-05BCB1	4302			265	267	266	255	265	263	276	285	294	303	312	318	323	329	328	334	332	334	342	
12S21E-16DCC1	4378	116	112	123	125	126	112	112	108	122	127	131	133	135	137	137	138	138	134	132	129	126	
12S21E-19DCC1	4480							289															
12S21E-25CCC1	4410	349	345	355	359	350	340	341	334	342	359	366	378	383	397	397	404	413	412	404	395	396	
12S21E-25DDD1	4394					336													391				
12S21E-26CCD2	4435			375		271	357	365	354	365	380	393	402	413	422	424	432	433	438	433	426	427	
12S21E-28DCC1	4461			181		215	143	144	146	224	239	243	245	248	270	263	268	264	260		194		
12S22E-06CCB1	4338					388	380	382	378	385	396	401	408	412	421	420	424	426	426	424	421		
12S22E-18ACD2	4352			358	358		342	347	344	347	358	367	371						398		391	394	
12S22E-19BBC1	4363																		400		386		
12S22E-20BBD1	4364			319	321	320	312	316	313	356	321	322	328		341	342	349	349		347	340	336	
12S22E-20DDC1	4370						365	369		367	376	382	389	393		395		408	409	408	403		
12S22E-35BCC1	4387							415	421	408	450	449	447	456	460	459	466	463	462	449	435	449	

FALL 3-MONTH INTERVAL

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
01N18E-01DAA1	5137	42.7	44.3	42	41	45	43.7	42	45.5	47.5	47		46	49	44	49	44	45	44	44		
01N29E-08BCD1	5045																629	629	628	627	627	
01N29E-30BBD1	5067	651	652	651	648	645	647	648	649	650	651	652	652	653	653	654	653	654	652	652	652	
01N30E-10BBA1	4979	553	553	552	549	545	549	549	550	551	552	553	554	555	555	557			555	552	553	554
01N30E-29CCB1	5105															684	683	683	682	681	681	
01N36E-01CCB1	4674	150	150	150	149	150	146	146	146	145	146	146	146	152	153					147		
01N37E-10CBB1	4648								89	84.5	84	88	88		90	90.5	89	89.5	91	91.5		
01N37E-15BBA1	4646	90	90	89.5	89.5	89.5	90	89.5														
01N37E-15BBA2	4646	90	90	89.5	89.5	89.5	90	89														
01N37E-15BBA3	4646	86.5	86	86	86	86.5	87.5	86.5														
01S17E-17BBB1	4937	42	44	41	37	35	37	34.5	37	40.5	42	43	46	47.5	45	49.5	44	43	38	36		
01S18E-14AAB1	4904	-32	-24	-35	-35	-33	-27	-30	-20	-17	-22	-20	-20	-12	-27	-12	-30	-28	-30	-28		
01S19E-03CCB2	4934	11.3	16.7	9.33	9	9.67	15.7	11	19	21.7	17.7	18.7	20	25	13	25.5	12.5	15.5	13	12		
01S19E-16CCD2	4902												-12									
01S19E-22AAA1	4885	-6.5	-6	-6	-8	-7	-6	-7.5	-4	-4	-5	-5	-4.3	-3	-6							
01S22E-09CCA1	4863	61.5	62	62	57.5	58.5	60	58.5	70	79	67.5											
01S22E-09CCA2	4863													163	103	140	91.5	98.5	92.5	89		
01S23E-26CCC1	5030	956	957	958	956	953	952	950	950	952	956	958	962	964	966	968	968	968	966	963	962	
01S27E-14DCC1	5159	1000	1001	1001	1001	995	991	990	990	993	997	1000	1003	1006	1009	1010	1011	1008	1008	1005	1004	1003
01S30E-15BCA1	5133	715	715	714	712	710	711	711	712	714	714	715	715	717	716	717	716	716	715	714	715	
01S32E-22BDB1	4740	318	318	318				315	316	317	318	318	319	321	319	317	321	320	318	313	318	
01S34E-21DAC1	4547	110	111	111				107	108	110	110	110	111	113	112	113	113	112	111	112	111	112
01S35E-11CAD1	4662	174	175	175	173	169	170	171	171	171	172	173	174	175	176	176	177	175	174	173	174	175
01S37E-36CDA1	4780	238	238	239	238	238	237	237	237	236	238		241	246	245	246	249	241	243	240	240	241
02N18E-15BAC1	5315							32.3	36.7													
02N18E-26ABD1	5217							36	38.7													
02N26E-22DDA1	5362	662	661	661	660	658	658	656	658	659	660	660	661	661	661	660	660	659	659	659	658	658
02N26E-22DDA2	5362	983	983	983	981	979	977	980	979	980	982	982	983	984	985	985	985	984	983	982	982	982
02N27E-02DDC1	5195	765	765	763	759	754	760	760	762	763	765	766	767	768	768	769	767	767	765	764	764	
02N27E-33ACC2	5375				985	984	982	982	983	983	985											
02N28E-13ADD1	5029	601	600	595	584	580	589	592	591	597	600	600	602	603	603	604	602	602	600	597	598	
02N28E-21BBB1	5079	648	648	646	641	637	643	643		646	648	649	649	651	651	652	650	650	648	647	647	

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
02N28E-35AAC1	5032	606	607	605	602	597	602	602	604	605	606	607	607	609	609	609	608	608	607	606	606	607
02N29E-11ADD1	4956																					506
02N29E-13AAA1	4943	498	498	498	497	494	493	494	493	495	496	497	498	499	500	500	500	500	499	498	497	
02N29E-15CBA1	5017	587	587	586	582	578	583	583		585	586	587	588	589	589	590	588	589	587	586	586	
02N29E-17BBA1	5005														578		577		575			
02N29E-17CBC1	5010	582	582	580	575	570	578	576		580	581	582	583	584	584		583	583	583	580		
02N29E-18ADB1	5016														589		588		587			
02N29E-18BDA1	5016	587	587	586	580	576	582	582		586	586	588	589	590	591	591	589	589	587	586	586	
02N29E-18BDC1	5008	208	208	209	208	209	209	207	207	207	212	212	211	212	212	212	212	212	212	213	212	212
02N29E-18CBA1	5011																585					
02N29E-18CBD1	5012									582	583	584	584	586	586	586	585	585	583	582	583	
02N29E-18CCD1	5020	592	592	591	569	519	556	571	576	581	586	587	589	590	592	593	592	592			589	
02N29E-18CCD2	5023																596					
02N29E-18DCA1	5012														586	586	585				582	583
02N29E-18DCB1	5033									601	603	604	605	606	606	606	605	605	603	602	603	
02N29E-19BCB1	5012									612	613	613	614	616	614	616	615	615	613	612	612	614
02N29E-20BBA1	5066																639					
02N29E-24DAD1	4991	556	556	554	552	550	550	551		553	554	555	556	557	557	558	557	557	555	555	555	
02N29E-31CDC1	5045	619	620	619			615		617	618	619	620	621	622	622	623	621	621	620	619	619	
02N29E-33DCC1	5090	668	669	668	665	660	664	665		668	668	669	670	671	671	672	670	671	669	668	668	
02N29E-35CCC1	5033	605	605	604	600	596	601	601		604	605	606		607	607	608	607	607	605	605	605	
02N30E-04DCC1	4926	472	472	472	469	466	467	467	468	469	470	471	472	474	475	475	475	474	473	472	471	
02N30E-16CCA1	4918	479	479	478	476	474	475	475	476	477	478	478	479	481	481	481	481	481	479	479	479	
02N30E-31CBC1	5007		581	580	576	573	576	577		580	580	582	582	583	583	584	583	583	581	580	580	
02N30E-35DAD1	5001		569	568	566	563	565	565	566	566	568	568	569				565					
02N30E-35DAD2	5001																565	565	564	563	563	
02N31E-35DCC1	5024	587	587	586	584	582	583	583	584	585	586	586	587	589	589	589	589	589	587	587	587	
02N32E-22ABA1	5370		935	934	932	929	930	930	931			933	934	936	936				935			
02N35E-02BBC1	5090	581	581	580	579	578	576			577	578	579	581	583	585	583	581	580	582	582	582	583
02N35E-02BBC2	5090	580	580	579	578	577	575			576	577	578	580	582	583	582	581	580	580	581	580	582
02N35E-02BBC3	5090	581	580	579	579	577	575			576	578	579	581	583	584	584	582	581	582	582	582	582
02N37E-02ABA1	4725	150	149	148	148	149	148	148	148	149	146	148	150	154	152	152	149	148	150	149	151	149

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
02N38E-16ADD1	4738	101	99.5	99.5	95	99	100	97	99	98	98		99	98	101	99	98	98	99	101	100	100
02S20E-01ACC2	4790	144	147	142	141	143		146	148	150	145	147	148	148	145	149	145	145	144	148	144	
02S30E-30BBB1	5100		689	688																		
02S32E-23BBB1	4585	168	168	168	166	164	165	165	166	167	167	168	168	170	169							
02S33E-16ABB1	4556							131	131	133	133	134	134	135	135	135	135	135	134	133	133	135
02S34E-13ADC1	4490					60																
02S34E-13CBB1	4470					40																
02S34E-13CCC1	4470					40																
02S34E-13DBA1	4479					45																
02S34E-14CDA2	4473					38																
02S34E-24BBB1	4470					36																
02S34E-25AAA1	4476					45																
02S34E-25ADD1	4482					43																
02S34E-25BCD1	4472					33																
02S34E-25CCC1	4466					33																
02S34E-25DDD1	4466					39																
02S34E-26ACB1	4458					28																
02S34E-26BCC1	4453					22																
02S34E-26DDA1	4464					33																
02S34E-27AAB1	4456					28																
02S34E-27ADC1	4455					26																
02S34E-28BAB1	4454					37																
02S34E-28DDD1	4450					21																
02S34E-33BBA1	4457	30	30	29.5	28	26	26.5	27.5	28.5	29.5	29.5	30.5	30.5	33	31.5	31	31	32	28.5	30	30.5	29
02S34E-35ACB1	4458					29																
02S34E-35CDD1	4458					26																
02S34E-35DCB1	4454					26																
02S34E-35DDA1	4456					27																
02S34E-36BBA1	4460					33																
02S35E-11DDD1	4510	37.7	32.7	30	29.7	29.3	31.3	28.5	31	29.5	29.5	32	31	34	32	34.5	28	31.3	30	23	30	32
02S35E-11DDD2	4518	65.7	65.7	65.5	63.7	62.7	63.3	63.5	63.5	65	64.5	65	66	67.5	67	67.5	67.5	67	65.5	66	65.5	66.5
02S35E-11DDD3	4518	64.7	64.7																			

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
02S35E-11DDD4	4518	65	64.7	64.5	62.3	61.3	63															
02S35E-14ABB1	4518					64																
02S35E-14BBA1	4514					67																
02S35E-14BCB1	4513					73																
02S35E-15ADA1	4515					72																
02S35E-17BBB1	4489					51																
02S35E-17CAB1	4490					56																
02S35E-17DDA1	4496					60																
02S35E-18AAA1	4486					52																
02S35E-18CBBA1	4481					49																
02S35E-18DCDD1	4486					53																
02S35E-19AAB1	4485					53																
02S35E-19AAD1	4490					55																
02S35E-19CCB1	4474					43																
02S35E-20CCC1	4483					50																
02S35E-20CDC1	4480					49																52
02S35E-20DCB1	4690					50																
02S35E-22DAC1	4525					79		78.7	78.7	80.7	80.7	81	82.5	86.5	84	85	82.5	83	81	82	82.5	82
02S35E-24CCD1	4514					23																
02S35E-25CBC1	4514					32																
02S35E-25CCB1	4515					34																
02S35E-27ACDA1	4490					31	29															
02S35E-27ACDC1	4490					29	23															
02S35E-27CAA1	4486						12															
02S35E-27CAA2	4486						10															
02S35E-27CCBB1	4486						15															
02S35E-27CCBB2	4486						15															
02S35E-27CDAC1	4484					14	9															
02S35E-27DBB1	4489					20.5																
02S35E-27DBDA1	4487					17.5	12															
02S35E-28BCDA1	4490					49																29
02S35E-28CAAD1	4488					40.5	35															

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000		
02S35E-28CCBB1	4484					36.5																		
02S35E-28CDDD2	4482					32.5	28																	
02S35E-28CDDD3	4485					35	30																	
02S35E-28DBAA1	4488					40.5																		
02S35E-28DBCD1	4485					37.5	32																	
02S35E-28DCDC1	4481						15																	
02S35E-28DCDC2	4481						14																	
02S35E-28DDDD1	4482						12																	
02S35E-29AAB1	4487					54																		
02S35E-31ACC1	4469					29.5																		
02S35E-31CCC1	4461					27																		
02S35E-31CDD1	4460					27																		
02S35E-32AAB1	4484					36																		
02S35E-32ABCC1	4477					35																		
02S35E-32ACC1	4477					31.5																		
02S35E-32ADAC1	4480					32																		
02S35E-32ADDC1	4479					30.5																		
02S35E-32BAA1	4481					37.5																		
02S35E-32BDCA1	4475					31																		
02S35E-32CAD1	4470					26																		
02S35E-32CBAD1	4467					23																		
02S35E-32CCCD1	4470					30																		
02S35E-32CDAC1	4471					25.5																		
02S35E-32CDDC1	4472					25.5																		
02S35E-32CDDC2	4471					24																		
02S35E-32CDDD1	4467					24.3																		
02S35E-32DAAC1	4478					29																		
02S35E-32DADB1	4474					25.5																		
02S35E-32DCCA2	4473					24.5																		
02S35E-32DDBD1	4474					21																		
02S35E-32DDCB1	4475					24.5																		
02S35E-33ABAD1	4481					15	13																	

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
02S35E-33ABD1	4483					32.5	28																
02S35E-33ADB1	4480					28	25																
02S35E-33BBBC1	4483					35.5																	
02S35E-33BCBD1	4481					32.5	29																
02S35E-33BCBD2	4481					35	30																
02S35E-33BCDC1	4481					32	28																
02S35E-33CABC1	4482					31	28																
02S35E-33CABC3	4482					32	29																
02S35E-33CBAA1	4482					33	30																
02S35E-33CBBA1	4479					30	27																
02S35E-33CBCB1	4481					32.5																	
02S35E-33CCBB1	4476					25.5																	
02S35E-33CDAC1	4482					30.5	28																
02S35E-33DABC1	4478						2																
02S35E-33DACB1	4478						2																
02S35E-33DBBA1	4479					18	17																
02S35E-33DCAD1	4477						2																
02S35E-33DDBA1	4480						4																
02S35E-34BDBA1	4482					9.5	5																
02S35E-34CBCB1	4481						4																
02S35E-35BAA1	4505					35	26																
02S36E-36CDD1	4636	76	76	76	76	75	75	75	75	75	75	75	75	76	76	76	77	76	76	75	76	76	
03N26E-10DDC1	5325											206						207	205				
03N26E-11CAB1	5324						207	203	206														
03N26E-11DAD2	5310						27	28	28														
03N26E-14DAA1	5325						58.7	57.7	58														
03N26E-22ABA1	5312	800																					
03N27E-19AAB1	5270						156												173	171	168	171	
03N29E-01ABB1	4873		306	306	307	306	306	305	304														
03N29E-01ABC1	4872					387	385	385	385	387	391	393	394	397	399	400	401	400	398	395	391		
03N29E-01DBB1	4883				408	403	401	396		398	402	403	405	407	410	412	412	410	409	406	403		
03N29E-13CBC1	4918	87	88		67		71	69		72	66	66	69	79	65	69	73	77	78	77	74		



Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
03N29E-13CCC1	4923			91.3	84.5	84	84.7	85		87	76	78	85	94	79	87	91	93	92	94	91	99
03N29E-14ACC1	4921			196					153	154	145	146	144	143	142	141	140	142	140			139
03N29E-14ACD2	4921	67.5	73.5	68	66.5	65.5	63			61	62	78	56	53	58	58	56	54	58			76
03N29E-14ADD1	4916	458	459	458	455	452	452	451	452	454	456	457	459	460	462	462	462	462	460	458	457	457
03N29E-14BCB1	4926				465	462	462	462	463	464	466	467	468	470	471							
03N29E-14CAC1	4929							187	188	188	188	185	185	189								
03N29E-14CBD1	4930				470	467	466	466	467	469	470	472	473	475	476	477	476	476	474	472	471	
03N29E-14CDA1	4927								172	172	171	170	178	173	172	173	173	174	174	174	174	
03N29E-14DAB1	4921	71	69.3	67.3	63	64	65.3	64	65	67	59	61		69		63	65	73	76	75	74	
03N29E-14DAB2	4922	71.8	68.2	66.7	64.8	66.2	66.8	65		70	62	63				66	69	72	77	76	78	
03N29E-14DAC1	4922	73	71		67		71	72	72	72	62	63		75	57	71	72					
03N29E-14DAC2	4922	73.5	75.7	69.7	62.5	65	69	63	67	67	59.5	61.5	69	76.5	55	66	68	72	75	71	65	
03N29E-14DAC3	4921	53.3		53	50	52	53.7	52	51	56.5	51.5	50	55	56	45	53	50	53		51	49	
03N29E-14DBD1	4923								458		463	464	465	466	468	468	468	468	466		463	
03N29E-14DBD2	4923	28.7	29	28	30	29.5	28.7	29	30	29	30	29	28	28.5	30	29	30	29	31			
03N29E-14DCB1	4928	116	117	92.7	84	85.5	86.3	90	89	87	79	80	82	96	79	85	91	93	91	92	89	
03N29E-14DCD1	4925			79	75	75.3	75.7	78		77	67	70	77	88	67	78	82	83	80	83	79	
03N29E-14DDA2	4918	460	460	460	457	454	453	453	454	456	458	459	461	462	463	464	464	463	461	460	458	
03N29E-14DDA3	4919			71.3	64.5	65	67.7	69		68	60	60	72		58	68	72	75	74	75	70	
03N29E-14DDA4	4919									71	61	62	69	81	59	69	73	76	75	76	71	
03N29E-14DDA5	4920		46	43.7	45.5	44.3	47	46	46	47	46	45		49	39							
03N29E-14DDA6	4920		46	44.7	44.5	42.7	44	43	44	49	43	42	43		41							
03N29E-14DDB1	4922		46	47.3		49									46							
03N29E-14DDB2	4922		46	47.5		46	50			50					45							
03N29E-14DDB3	4928		61	56.3	54.5	55.3	58.7	57	55	59	56	55			50							
03N29E-14DDB4	4929		55	55	50	43.7	38.7		52	60	52			32	31							
03N29E-14DDC1	4924			80.7	76.5	77	75.7	78		79	67	70	76	88	70	81	83	85	84	85	83	
03N29E-14DDC2	4923		48	43	50	46.7	47.7			49	47	49			44							
03N29E-14DDD1	4921		45	43.7	47.5	45.3	45.3	47	47	47	46	46		48	41							
03N29E-14DDD2	4921		47	45.7	50	48	47	50	48	52	46	45	51	56	42							
03N29E-19CBB1	5048	610	609	608	604	600	603	604	605	607	608		611	612	613	613	612	612	610	608	608	
03N29E-23ABB1	4925				464			460	461	463	464	465	466	467	468	468	468	468	467	465	464	

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
03N29E-23ABB2	4925											199	215	216	224								
03N29E-23ADC1	4930				470	465	466	466	467	469	471	472	473	475	476	476	476	475	474	472	471		
03N29E-23DAC1	4933	172	170	148	150	124	116		170	179	181	183	185	186	171	179	166	169	152				
03N29E-23DCD1	4938	481	481	481	478	475	474	473	475	477	479	480	481	483	484	484	484	483	482	480	479		
03N29E-24BAC1	4922	330	330	330	327	330	330		213		213	212	213	213	213		179	180	181				
03N29E-24BBA1	4922	146			134	133	133	132		133	131	131	131	135	132	132	135	136	135	135	135	135	137
03N29E-24BBC1	4925				163	154	155	156		155	155	152	153	160	160	158	155	161	163	163	163		
03N29E-24DAD1	4916				458	455	453	452	451	452	454	456	457	458	460	461	462	462	461	459	458	456	
03N29E-24DAD2	4915		458		455		451	450	452	454	456	457	458	460	461	462	461	461	459	457	456		
03N29E-24DDA1	4916		459		455	452	452	451		455	457	457	459	461	462	462	462	462	460	457	457		
03N29E-24DDA2	4917		459		456	453	453	452		455	457	458	460	461	462	463	463	462	461	461	457		
03N29E-24DDA3	4916	459	459	458	456	453	452	451	453	455	457	458	459	461		462	462	461	460	458	457		
03N29E-24ddb1	4918		460		457	454	453	452	454	456	458	459	460		463	464	463	463	461	459	458		
03N29E-24DDC1	4918		461		458	455	454	453	455	457	459	460	461	463	464	465	465	464	462	460	459		
03N29E-25AAA1	4917							70	71	70.7	85.3	70.4	69.8	67.5	70.7	92.1	93.6	69	67.8	72.9			
03N29E-25AAA2	4919												461	464	465	466	465	465	463	461	460		
03N29E-25AAB1	4920							120		117		121	124	118	118	120				119	121	122	
03N29E-25ABD1	4922		466		462	459	459	458	459	462	464	465	466	467	469	469	469	468	467	465	464		
03N29E-25BBD1	4931				471	468	467	467	468	470	472	473	474	476	477	476	478	477	475	473	472		
03N29E-25BDB1	4929				469	466	465	465	467	469	471	472	473	474	476	476	476	475	474	472	471		
03N29E-25BDC1	4929				469	466		465	466	468	470	471	472	474	475	475	475	474	473	471	470		
03N29E-25BDD1	4929				469	466	466	465	466	468	470	471	473	474	475	476	475	475	473	471	470		
03N29E-25CAA1	4929	472	472	471	469	465	465	465	466	468	470	471	472	473	475	475	475	474	473	471	470		
03N29E-25CAD1	4929				468	466	466	465	466	469	470	471	473	474	475	476	476	475	473	472	471		
03N29E-25DCA1	4928						465	464		467	469	470	471	473	474	475	475	474	472	470	469		
03N29E-25ddb1	4925							460		464	466	467	468	470	471	471	471	470	469	467	466		
03N29E-36BCB1	4939	483	483	482	479	476	476	475	477	479	481	482	483	484	486	486	486	485	484	482	481		
03N29E-36DCC2	4932															481	481	480	479	478	477		
03N30E-06ACD1	4872				391	387	385	384		386	390	392	394	396		399	400	399	396	393	391		
03N30E-12CDD1	4938	467	467	467	466	463	461	460	461	462	464	465	466	468	470	471	471	470	469	467	466		
03N30E-16DDD1	4933					458	456	456	456	457	459	461	462	464	465	466	467	466	465	463	461		
03N30E-18CCC1	4910												452	454	455	456	455	455	453	451	450		

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
03N30E-19CAC1	4914		452		448	445	445	444	446	448	450	451	452	453	455	455	455	455	452	451	450	
03N30E-19CBB1	4913	377	373	373	373	373	373	375	379	379	377	375	374	376	377	377	377	379	378	376	376	
03N30E-19CCA1	4913							449	450	452			456									
03N30E-19CCB1	4915		457			450	449	448	450	452	454	455	456	458	459	459	460	460	458	456	455	
03N30E-19CCC1	4917					453	452	452	452	456	457	458	459	461	462	463	462	462	460	458	457	
03N30E-19DDC2	4907	449	449	449	446	443	443	442	443	445	446		449	451	452	453	453	452	451	449	447	
03N30E-30ACC1	4916							452	453	455	457	458	459	460	462	462	462	461	460	458	456	
03N30E-30BAB1	4913		455		452	449	449	448		451		454	456	457	458	459	459		458	455	453	
03N30E-30BAC1	4915							81			68.5	81	78	80	82	68		81	79	85	84	
03N30E-30BAC2	4915					19.5																
03N30E-30BAC3	4914					21																
03N30E-30BAD1	4913		456		453			449	450	453	456	456	456				459	459	457	455	454	
03N30E-30BBA1	4917							122			121	104	118	101	117			99	99			
03N30E-30BBA2	4914												456	458	288	289	289	459	457	454	454	455
03N30E-30BBA3													32									
03N30E-30BBA6	4917					20.5					16											
03N30E-30BBB1	4917		459		456	453	453	452	453	453	455	458	459	461	462	463	463	462	460	459	457	
03N30E-30BBD1	4917							96.3		115	125	121	121	121	122	120	120	122	121	122	122	
03N30E-30BBD2	4924							66		68	71	66	67	65	66	72	69	65	65	72	73	
03N30E-30BBD3	4917					20.5					23	24										
03N30E-30BBD4	4916					18.5																
03N30E-30BBD5	4919												14									
03N30E-30BBD6	4934												32									
03N30E-30BCC1	4920							457		461	463	464	465	466	467	468	468	467	465	464	463	
03N30E-30CAD1	4919							455		457	460	461	462	464	465	466	466	465	463	462	460	
03N30E-30CBD1	4920							456	457		461	462	463	465	467	467	467	466	464	463	461	
03N30E-30CCB1	4921					459	459	457	459	461	463	464	466	467	468	467	468	468	466	464	463	
03N30E-31AAD1	4915	461	461	461	459	456	455	455	456	457	459	460	461	462	464	464	464	463	462	461	459	
03N31E-35DCA1	5129											669										
03N32E-13BBD1	5121													638								
03N32E-13DCA1	5164	679	679	679	678	675	674	674	674	675	677	677	679	681	682	682	682	681	679	679	679	
03N32E-14CDD1	5158					673	671	672	671	673	674	674	676	677	679	679	679	678	677	676	676	

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
03N32E-29DDC1	5125	659	659	658	656	654	654	653	654	655	657	657	658	660	661	661	661	661	658	659	658	
03N32E-36ADD1	5251						764		769	769					772	772	771	770	769			
03N34E-32BBC1	5217	724	724	723	722	720	719		718	720	721	722	723	725	726	726	725	724	723	724	723	725
03N35E-14DDD1	5035							505	507	509												
03N37E-02CBD1	4816	148	150	146	146	146	148	146	148	153	147		149	156	150	151	146	146	146	147	147	148
03N37E-12BDB1	4752	106	107	103	103	106	106	104	107	113	104	113	106	117	106	112	104	102	105	105	105	106
03N38E-22BAB1	4790	94	97.7	93	93.5	93.5	97.5	87	97	103	94	100	95.5	108	97	104	92	92.5	95.5	95.5	91.5	89
03N40E-08BAA1	5043	130	127	131		128	126	126	124	133					130	125		124	126	125	126	126
03S20E-02DDA1	4604	536	540	529	521	529	536	529	536	543	542	544	545	546	543							
03S27E-24DDA1	4982	856	857	857	856	853	850	849	849	851	855	857	860	862	865	866	870	867	867	862	861	861
03S31E-16CCB1	4640	230	231	230				227	228	230	230	231	231	232	231	232	232	232	231	230	231	231
03S32E-04ACA1	4535							112	112	114	114	115	115	117	116	117	116	116	115	114	115	116
03S33E-14BBA1	4462	40	39	39	38	36	37.3	37.3	38	40	39	40	40	42	40	42	41	41	40	39	40	41
03S33E-17AAD1	4513	94	95	94	93	91	92	91.7	92.3	94	94	95	95	97	95	96	96	96	95	94	95	96
03S33E-25CCC1	4450	36	35.7	35.3	34	33.3	33.3	33.5	34	36	35.5	36	36.5	38	37	37	37	37	36	36	36	37
03S33E-25CCC2	4450	35	35.3	35	33.7	32.3	33															
03S34E-01BAC1	4454					25																
03S34E-01CCC1	4451					20																
03S34E-01DCB1	4453					20																
03S34E-02AAA1	4455					27																
03S34E-02BCC1	4446	21.3	21.7			19																
03S34E-02BCC2	4446	21.7	21.7			18																
03S34E-02BCC3	4446	21.3	21.7	21.3	19.3	18	19	19	20	21	21	22	22.5	24	22.5	24	22.5	22.3	21.5	21	21.5	22.5
03S34E-02BDA2	4448					22																
03S34E-02CDC1	4446					19																
03S34E-03CDC1	4441					13																
03S34E-09CCD1	4431					7																
03S34E-10AAA1	4443					14																
03S34E-16BCB1	4426					5																
03S34E-16CAB1	4426					4																
03S34E-16DAA1	4432					7																
03S34E-22DAB1	4440		14.3	13.7	12.3	11.5	12.3	12.5	12.5	13.5	14.5	15	15.5	15.5	14.5	15	14.5	14.7	13.5	13	14.5	14.5

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
03S34E-22DAB2	4440		16.3	15.7	14	13.3	13.5								14							
03S34E-24AAA1	4457					26																
03S34E-24BBB1	4460					37																
03S34E-26DBB1	4457						40.5	40.3	41													
03S34E-28DDD1	4445						29															
03S34E-34BAAA1	4445										29	30										
03S34E-36ABB1	4459										38	41										
03S34E-36BCC1	4455										38											
03S35E-04BBAA1	4480					26.5																
03S35E-05BADC1	4472					22																
03S35E-05BCDD2	4465					18																
03S35E-05CBCB1	4467					18.5																
03S35E-05DDA2	4478					31.5																
03S35E-06ABB1	4461					25																
03S35E-06CDA1	4459					20																
03S35E-09ADD1	4490						23.7	21.7	22.3													
03S35E-11BCC1	4498					15																
03S35E-12BBA1	4510					16																
03S35E-12BBA2	4510					19																
03S35E-18BAA1	4468					26																
03S35E-20DDA1	4474						25.7	24.3	25													
03S35E-21ADA1	4485						31	26	28.7	31.5	29	32.5	34	42	35	40						
03S35E-30ABB1	4471						34.7	34.7	35.7													
03S35E-32BBD1	4472						45.3	46	45													
03S36E-03ACB1	4540						6.33	5.67	6													
04N26E-04BBA1	5444						25					61	62						20	20	21.3	46
04N26E-16CBA1	5401						32	27.3	38													
04N26E-16CDD1	5395						14	9.33	14													
04N26E-18ADB2	5440				46	44.7	55						94									
04N26E-21ABB1	5390	592	589	588	583	579	585		583	587	594	600	604	607	609	607	607	598	593	589		
04N26E-25BBC1	5345				3	3	3															
04N26E-26DCD1	5332	41	41.5	37.5	37	37	38	37	41	48	53	57.5	58	65	55	61	47.5	44	40.5	42		

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
04N26E-32CBB1	5371	201	200	197	195	195	197	196	199	203	204	205	207	208	207	208	204	202	201	200		
04N26E-35BAB1	5335						4	4	5													
04N29E-09DCD1	4884	400	400	399	395	390	389	388	388	391	395	397	399	401	403	405	405	404	402	398	395	
04N29E-14CAA1	4880					387						394				402						
04N30E-06ABA1	4812					307						316	319	321	323	325	324		320	315	312	
04N30E-07ADB1	4819	328	328	327	322	317	317	315	316	320	323	325	328	330	332	334	334	333	330	325	322	324
04N30E-19DAD1	4842																	367	366	361	359	
04N30E-19DDD1	4846												367	369	372	372	373	372	371	367	364	
04N30E-20CCA1	4843												364	365	368	369	370	369	367	363	361	
04N30E-22BDD1	4833	355	355	354	352	348	346	345	345	348	350	352	354	356	358	359	359	358	357	354	352	
04N30E-29BAC1	4852																	376	375	371	368	
04N30E-29BCD1	4852																	376	375	371	368	
04N30E-29CBB1	4854																	379	377	373	370	
04N30E-30ACA1	4850											369	371	373	375	377	377	376	374	370	368	
04N30E-30ADC1	4853																	378	376	372	370	
04N30E-30DAB1	4853																	379	378	374	371	
04N30E-31ABD1	4858	380	380	380	377	372	370	369		372	375	378	379	382	384	385	386	384	383	379	376	376
04N31E-16ADC1	4899	414	415	414	412	410	409	408	409	410		413	413	415	416	416	417	416	415	414	413	
04N35E-14AAA1	4939	412	413	412	409	407	406	406	406	409	411	410	411	414	416	416	415	414	411	414	412	413
04N36E-01DDB1	4830	89																				
04N36E-32DDD1	4845							317														
04N37E-36CCB1	4764	114		112	113																	
04N37E-36CCB2	4764	125	129	113	113																	
04N38E-12BBB1	4830	4	5	4	4	4	5.5	4.5	5.5	6	2	7.5	4	10	3.5	7	3.5	4	5	4	3.5	3
04N38E-12BBB2	4830	31	32	30.5	27	27.5	29	28.5	30.5	34	31	35.5	34.5	41	35	38	33	33.5	34	32.5	31.5	32
04N38E-12BBB3	4830	30.5	32	30	29	29.5	29	28	30	34	30	34.5	34	41	35	38	33	33	33.5	32.5	31.5	32
04N38E-12BBB4	4830	33.5	34	32.5	30.5	29.5	31	30	31.5	35.5	32	36.5	35.5	42.5	36.5	40	34.5	35	36	34.5	34	35
04N38E-12BBB5	4830	83.5	85.5	83	82	81.5	83.5	82	84.5	88.5	82	87.5	86	95	87	90	84	84	86.5	84.5	83.5	83
04N39E-16DAD1	4885	16.5	22	17.5	16	17.5	22.5	18	23.5	26	13	27.5	18.5	35	17	28	12					
04N39E-26DAA1	4922	25.5	30.5	27.5	25.5	26.5	33	29	33	39	22	38	28.5	49	28	34.5	25	25.5	30	26.5	25.5	21
04S16E-34AAD1	3898		219																			
04S17E-10BBA1	4500						222	219	286	290	264	295	301	308	282	314	299	297	219	296	258	294

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
04S19E-14AAB1	4475		504																			
04S24E-06BBC1	4493	422	424	424	422	419	418	416	416	419	422	425	427	430	432	434	435	434	432	430	429	429
04S31E-06BBD1	4631							222	223	224	224	225	225	226	226	227	226	226	225	225	224	226
04S31E-11ABA1	4465							57	57.7	59.3	59	60	60	62	59.5	62	61	61	60	60	60	61
04S31E-20BBB1	4523	121	121	121	119	116	118	118	119			122	122	123	122	123	123	123	122	121	121	123
04S31E-36ABA1	4402	3	3	3	3	3	3.33	4	4	5	3	4	4	6	3	4	5	5	4	4	4	4
04S32E-01CBA1	4450	43	42.7	43.3	41	40	41	41	41	42.5	42	42.5	43	47	42	43	42	41	42	39	43	43.5
04S32E-01CBA2	4450	43.3	43	43.3	41	40.3	39.5															
04S32E-01CBA3	4450	42.3	42	42.3	40	38	37.3	38	38.5	39	39	40	40.5	40.5	41	41	41	41	41	41	40	41
04S32E-01CBA4	4450		38.3	38	36.3	34.7	35.7	36	37	38	38	39	39.5	40.5	39	40	39.5	39.3	38.5	39	40	40.5
04S32E-13CBB1	4411	15	16	16	15	14	14	14	15	16	15	16	16	18	15	16	15					
04S33E-03CBB2	4448	36.8	37.3	37	35.4	34.3	35.2	35.3	36	37.5	36.5	38	38	40	37.5	38.5	37.5	37.5	37	37	37	38
04S33E-20CBB1	4419		29.7	29.7	28.7	28.3	28.3	29	29.5	30	29.5	30	30.5	31.5	29.5	30.5	30	29.3	29.5	29	29.5	30.5
04S33E-20CBB2	4420		22	20.3	18.7	17.3	19	18	19	20.5	19.5	19	18.5	23	20	21.5	20	20	19	21	22	22
04S33E-20CBB3	4420		19.3	15.3	15.3	14.3	15.3	14.5	13	13	11.5	12	12	13	13	13	13	13	14	15	15	16
04S33E-20CBB4	4420		6.67	6	4.33	3	4.33	4	5	6	6	6.5	7	8	7	8	7	7	6	6	6.5	7
04S33E-25DDB1	4384							-13	-12	-12	-11	-11		-11	-9.5	-11	-9					
04S33E-25DDB2	4384							4	3.5	4.33	5	4	5	5	5.5	5	5					
04S33E-33CAC1	4366										5	6		6								
04S33E-33CAC2	4366							5	5.67	6	5.5	5.5	5.5	5.5	5	5.5						
04S33E-33CAC3	4366							5	5.67	6	5.5	5	5.5	5.5	5	5						
04S33E-35DAB1	4371							1	1													
04S33E-35DAB2	4371							1	1													
04S34E-01DDD1	4459						36.3	36.3	36.7		37	39										
04S34E-02AAB1	4451						36	36.3	35.7													
04S34E-05CCD1	4405	3	4	4			3.67	4	3.67													
04S34E-08DBD3	4435						21.8	22	23.3	24.5	25	24.5	26	26	25	26						
04S34E-11AAAD1	4455										39											
04S34E-11BBA1	4451											37										
04S34E-15BBA1	4442						29.3	29.3	29.3													
04S34E-15CDC1	4439										30	31									31	
04S34E-16BBB1	4440										30	31										

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
04S34E-16CBCC1	4436										27	28											
04S34E-16CDD1	4438						26	26	26.5														
04S34E-17CBD1	4420											36											
04S34E-19AAD3	4430						28.3	30.3	31														
04S34E-20BBB1	4434						32.3	32.7	33														
04S34E-21CBB1	4430										19												
04S34E-24ABD1	4443		26	25																			
04S34E-25BCC1	4436						21.5	21.3	22	23.5	23	24	24	26.5	25	25.5							
04S34E-27AAB1	4435	26	27	26			24.3	25	24.7														
04S34E-32ADA1	4423						11	11	11.3														
04S34E-35DDC1	4438										25	26											
04S35E-06BBB1	4462						40.3	40.7	41	42.5	41.5	43	45.5	49	45.5	46							
04S35E-18DABC1	4440										24	26											
04S35E-22BCA1	4665						230	228	228														
04S35E-25BDC1	4648		206																				
04S35E-25DCB1	4682						221	221	227	233	230	234	233	243	229	241							
04S35E-29DACA1	4500										86	89											
04S35E-30ACC1	4445										28	31											
04S35E-31CBBB1	4468										48	50											
05N25E-02DCD1	5683						91.5	78.7	96												89	89.3	105
05N26E-05DCB1	5592						55.7	51.3	56.3	62.5	64	65.5	65	72.5	59	67.5	51	54.5	52.5	50			
05N26E-08CAB1	5593						112						143							110	111		
05N26E-23CDA1	5488	23.5	26.5	19	18	17.7	24.5	19	28.5	44	55	59	58.3	70.5	45.5	61	24.5	26	22	22			
05N26E-28BBB1	5485				18	16.3	27						62										
05N26E-28DCA1	5460						14.7	8	19														
05N26E-28DCA2	5460						15.7	8	18														
05N26E-32DBA1	5518						85					118								77.5	78	104	
05N29E-01BBB1	4805	123	123	122	121	118	120	119	120	121	122	122	122	124	123	125	125	125	124	122	122	123	
05N29E-23CDD1	4800	273	274	273	269	261	266	265	267	270	271	272	274	277	275	279	276	277	274	272	271	275	
05N30E-11CDD1	4792							251	258	259		268	264	269	274	269	269		273	265	266		
05N30E-15ADC1	4795							255	266							283							
05N31E-14BCC1	4806	271	272	269	263	265	264	259	264	266	268	269	270	272	274	276	276	275	272	269	268		



Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
05N31E-15BAD1	4785		210	210	210	208	206	205	205	205	206	206	207	209	210	212	213		213	212	211	
05N31E-28CCC1	4794	270	271	268	262	263	262	257	263	265	268	269	270	272	274	275	275	275	270	268	267	
05N32E-36ADD1	4839	333	333	333	331	329	328	327	328	329	330	331	333	334	336	336	336	335	333	333	333	333
05N33E-10CDC1	4786		257			253										259						
05N33E-13BDC1	4794	270	270	269	268	264	265	263	265	265		266	269	271	272	271	271		271	271	271	272
05N33E-13BDC2	4795	268	268	267	265	261	263	261	263	263		264	267	269	270	269	269		269	269	269	270
05N33E-13BDC3	4795	258	258	258	256	253	254	252	253	253		255	257	259	260	260	260		260	259	258	259
05N33E-17ADD1	4771		232			228													234	234	233	234
05N33E-23DDA1	4812		291			284						288				294						
05N34E-09BDA1	4791	262	261	260	259	255	257	254	256	258	258	259	262	263	265	265	265	264	262	262	262	
05N34E-29DAA1	4877		355			349		347								358						
05N35E-01CCC1	4793	238	240																	241		
05N36E-02BDA1	4764	48.5	49	48.5	47.5	46	45.5	46.5	47.5	50.5	52	53.5	55	56	55.5	57	54.5	55	53	52.5	52.5	55
05N36E-02BDA2	4764	1.5	2.5	2.5	0.5	-1	0	0.5	1.5	5	7	8.5	10.5	11.5	11	12.5	9.5	10	8.5	7.5	6.5	9
05N36E-02BDA3	4764	-3	-3	-3	-3	-3	-3	-3	-3	-4	0	-4	-3	-3.5	-3.5	-2	-1	-2	-2	-2	-2	-3
05N36E-21DAC1	4801		264	262	260	257	255	256	256	258	261	258	263	264	265	265	264	264	260	263	262	262
05N36E-22BBC1	4781	166	164	164	163	160	158				154											
05N36E-22BBC2	4781	128	129	129	126	139	151				133	126										
05N36E-22BBC3	4781	24	24	23.5	80																	
05N36E-36DCD1	4816	65																				
05N37E-08DCC1	4768											2.31										
05N37E-08DCC2	4768											2.31										
05N37E-21DBB1	4775	0	0	-0.5	-1.5	-2	-1	-1.5	-1	0	0	1	2	3	2.5	3	1.5	1	0.5	0	0	1
05N37E-21DBB2	4775	2	2	2	2	1	1								3							
05N37E-21DBB3	4775	0.5	1	0	1	-0.5	0	0	0	1	1	2	2.5	4	3	4	2	2	1	1	1	2
05N38E-09DDC1	4825	33	33																			
05N39E-08DAD1	4830	5.5	6	5.5	5.5	5.5	6	5.5	5.5	5.5	5	5	5	6	5.5	5.5	5	5	6	5	5.5	5
05N39E-18CAC1	4823	0	0																			
05N40E-01CCD1	5305	440	442	441	442	441	440	439	439	441	442	444	447	448	446	447	445		441	444	443	444
05S11E-33DAC1	2850																		9	11.3	9	14
05S12E-13DAB1	3560						351	349	349	348	348	348	348	347	348	347						
05S12E-36BBA1	3280																		32	33	32	35

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
05S14E-12AAA1	3609						111	108	110	118	115	115	116	122	117	118	115	110	108	108	109	112
05S14E-25CAA1	3536																		111	118	112	
05S15E-07DCC1	3593	83	78.5	82																		
05S15E-23CBB1	3616																		50	54.7	55.3	75
05S15E-35DBD2	3627	135	136	130	125	122	127	123	128	137	137			149	142		135	128	122	125	125	134
05S17E-26ACA1	3973	195	198	191	185	183	187	177	191	203	200	205	213	222	209	216	198	188	180	182	185	201
05S21E-03DAC1	4434		376	375																		
05S23E-17CAA1	4375	315	316	316	314	312	311	309	309	311	314	317	320	323	326				325	322	322	322
05S25E-22DAD1	4583	500	502	502	501	498	497	495	495	496	500	502	505	508	509	511	512	512	510	508	507	507
05S28E-26BBB1	4941	683	685	685	682	681	681	681	681	683	684	685	686	688	687	687	687	687	686	685	685	687
05S30E-12BBA1	4502	110	111	111			107	106	109	111	110	110	112	114	112	112	111	117	111	111	110	
05S31E-19DDC1	4427	45	46	45	43	42		43	44	47	46	47	46	50								
05S31E-19DDC2	4420														47	49	47	49	47	47	46	49
05S31E-27ABA1	4400	14.1	14.3	15.6	16.4	16.6	17.9	17.4	16.4	17.5	17.5	18	18	20.5	17	18.5	19	19.5	18	17.5	17.5	19
05S32E-07CCC2	4375																		2			
05S32E-18CDC1	4374	-8																				
05S33E-24CCC3	4445						29	29.7	29	30.5	30	30	31	30.5	31	29						
05S33E-32ACD1	4428	28			26				27	28.3												
05S33E-32BDC1	4422				22																	
05S33E-35CDC1	4425	24.5	25.2	24	23.2	22.1	23.1	23.1	23.6	25	25	25.5	25.5	26.5	25.5	26	25.5	25	24.5	24	25	26
05S34E-05DADD1	4428										37	37									38	
05S34E-16BBB1	4429						22.3	22.7	23													
05S34E-20CBB2	4455		52	52	51	50	50	50.4	51	52	51.5	54	54	55.5	54	55	54	54	53.5	53	54	54
06N28E-13DDA1	4945	105	106	104	103	94	99.5	92	92.5	100	97.5	99	102	104	102	108						
06N29E-16DDD1	4865	71.5	74	68	63	57.5	62.5	58	59.5	67.5	68	64	70.5	75	68	78						
06N31E-10ACC1	4794								209		211					220						
06N31E-12ACD1	4790								204		206											
06N31E-13DBB1	4795								209	210	212	213	214	217	219	221	220	221	220	218	218	218
06N31E-16DCA1	4784					205										212	211	212	211	209	209	
06N31E-21DCC1	4786											205				213	213	214	213	211	211	
06N31E-27BDD1	4790	212	213	213	212	210	208	206	206	206	208	209	211	213	215	217	217	217	216	215	215	
06N32E-11ABA1	4789	210	210	211	209	207	205	203	203		205	206	208	210	212	214	214	214	213	212	212	

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
06N32E-26CDB1	4786	223	223	223	222	220	218	216	216	217	219	219	221	223	225	226	227	227	226	224	224	
06N32E-36ADD1	4785		224	225	224	221	220	218	218													
06N33E-02BAB1	4783										196											
06N33E-04DDD1	4786	207	208																			
06N33E-26DDB1	4784		225	226	225	223	222	221	221	222	222	223	225	227	228	229	229	229	228	227	227	227
06N34E-01CDA1	4781											8.5										
06N34E-01CDA2	4780											9.33										
06N34E-10CBB1	4781	7.5																				
06N34E-23BAA1	4785	222	223																			
06N35E-01DAD1	4794	84	85																			
06N35E-10BDD1	4785										92											
06N35E-14CAD1	4789	99									102											
06N35E-21AAB1	4784	96		98	92	90	94	90	91	99	99	96	97	97.5	101	105	98	95.5	96	97.5	96	
06N35E-27DDA1	4798	240	240	241	238	235	234		234	237	241			244	245		244	245	242	242	241	242
06N35E-32CDD1	4788																		248			
06N35E-32DDD1	4789							242	243	246	248	248	250	253	253	253	252	252	246	254	254	251
06N36E-06BCD1	4800	91																				
06N36E-08BCC1	4885	183	185								52											
06N36E-11ABA1	4818	72.5	72.5	72.5	71.5	70	70	70.5	71.5	73.5	73.3	74.5	75.5	76.5	75.5	76.5	74.5	75.3	74.5	74	72	74
06N36E-11ABA2	4818	42.5	42.5	42	38.5	34.5	36.5	36.5														
06N36E-11ABA3	4818		39	38	35	32.5	33.5	33.5	35	38	39	41	42.5	44.5	42.5	44.5	41	42	40	40	37.5	40
06N36E-11ABA4	4818	55.5	56	55.5	53.5	52.5	53	53.5	54	55.5	56.3	58.5	60.5	61.5	59.5	61.5	57	58	56.5	56	55.5	56.5
06N36E-15ACA1	4875	154	153																			
06N36E-27BAA1	4884	185	185	185	183	182	181	182	183	206	186	188	189	190	189							
06N37E-29ACA1	4824	45	45	44.5	43	41.5	42	42	43	44.5	46.3	47	48	50	48	49	47.5	47.7	48		45	46
06N37E-29ACA2	4824	49	49	49	47	45	46	45.5	47	49	50	51	52	51.5	53	54	52	52	51	50	49	51
06N37E-29ACA3	4824	41.5	42																			
06N37E-29ACA4	4824	40.9	41.9	41.5	38.5	36	37	37		41.5	42.7	44.5	46	47.5	46.5	48.5	45	45.7	43.5	43	41.5	43.5
06N38E-02DBD1	4885	75	75	74	72	71	70	70	71.5	75	76	78	80	83	80.5	83	79	79	78	77	76	78
06N38E-02DBD2	4885	78	78.5	78.5	77.5	74.5	74															
06N38E-25ACB2	4826	20	20.5																			
06N38E-25ACB3	4826	16.5	17																			

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
06N38E-25ACB4	4827	17	17.5	16.5	15	12.5	13	12.5	14.5	18.5	18.5	20.5	22	26	23	25	21.5	21	20	19	18.5	20.5
06N38E-25CCB1	4828	36																				
06N38E-30BAD2	4874	91.5	92	91.5	90	88	89	88	90	91	93	94	95	96	95	96	95	94	93	93	92	94
06N38E-30BAD3	4874	87	87.5	87	85	82	83	83	84	87	88.5	90	92	94	92	94	91	91	90	89	88	90
06N38E-30BAD4	4874	90	90	90	90	90	89	89	88	89	89	90	90	91	91	92	92	92	92	92	91	91
06N38E-35ABA1	4816	25																				
06N39E-10BBB1	4834	19.5	19.5	18	17	15	15	14.5	16.5	20	20.5	22.5	24	28	25	28	24	24	23	21.5	21	23
06N39E-10BBB2	4834	20	20	19	17	15	15	14.5	16.5	20	20.5	23	24	28	25	28	24	24	23	21.5	21.5	23
06N39E-10BBB3	4834	19.5	20	19	17	15	15	15	16.5	20	20.5	22.5	24	28	25	28	24	24	23	21.5	21.5	23
06N39E-10BBB4	4834	19	19	18.5	18	14.5	14.5	14	15	18	20	21.5	24	26.5	26	26	25.5	23.5	22.5	21	21.5	22
06N39E-13ABA1	4864	8	8	8	6	8.5	8	7.5	8	8	8	8	8.5	9.5	8	9	7.5	8.33	8	7	7.5	9
06N39E-16DAA1	4835	6	6	6.5	5	7	6	6.5	7	8	6.5	7	6	11	6	9	6	6.67	6.5	5	7	8
06N39E-23AAC2	4844	27.2	27.5	26.5	25	22.5	23	22.5	24	28	28.5	30.5	32	36	32.5	35	31.5	31	30	29	29	31
06N39E-28BBB1	4829	3.5	6	6	6	7	7	6.5	7	6.5	6	7	6.5	7	6	5.5	6	6	6	5	6	6
06N39E-30ADC1	4817	3	3.5	2.5	1.5	0	0.5	0	1	3.5	4	5.5	7	9.5	7	9	6	6	5	4	4	5
06N39E-30ADC2	4817	6	6	5	3.5	1	1	1	2.5	6	7	9	11	14	11	14.5	10	10	9	7.5	7.5	9
06N39E-30ADC3	4817	5.5	5.5	5	3.5	1	0.5	0.5	2													
06N39E-35CBB2	4841	4.5	3.5	4.5	5	4.5	4	4.5	4	4	5	5	4.5	5.5	5	5	4.5	5	5.5	4	4.5	5.5
06N40E-09BBB2	4887	8	6.5	7	6.5	7	6.5															
06N40E-15AAA1	4900													13	15	13.5	12	14	12.5	11	13	13
06N40E-25BCB1	5140							323	325	332												
06N41E-02BDC1	5132		274	267	264	260	262	260	261	270	270	274	276	282	276	283	278	279				
06N41E-11CDB1	5216	356	359	353	350	350	350	346	348	343	343	362		367	361	368	363	356			356	359
06N41E-20BDC1	5116								262	271	271	273	276	280	276	282	280	281			276	279
06S11E-06BBA1	2680	120		123		125	125	124	125	126	126	127	127	127	127	127	128	128	128	128		
06S13E-05ABC1	3295																		193	192	192	191
06S13E-05DB1	3280								303	305	305											
06S13E-08BDA2	3250											129	113	123	113	93.7	77.3	75.7	74.7	72	88	72
06S13E-16AAD1	3285						159	158	159	159	151											
06S13E-18ABC1	2830					-73	-68	-73	-70	-69	-70	-62	-66	-55	-32	-24	-31	-17	-20	-17	-13	-14
06S13E-25DBC1	3265																			211	211	212
06S13E-36CDD1	3272	159	160	171					158	160	161											

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
06S14E-12DAC1	3651	285	284																			
06S14E-18AAD1	3352																		68	72	78	78
06S14E-35DBD1	3472																		186	187		
06S17E-31BBA1	3917																		326	326	326	329
06S18E-07BCB1	3980																		180	177	178	182
06S18E-22AAA1	4036	198	202	198			193	192	129	199	199	201	203									
06S19E-19CCD1	4040																226	225	222	220	220	222
06S22E-28CDD1	4223							197	198	200	203	205	207	211	211	212	214	214	211	210	209	
06S29E-13CDC1	4645	309	313	312																		
06S29E-15BBC1	4730							412	414	416	417	418	417	419	418	420	418	421	417	416	416	420
06S31E-16BAB1	4392	15	15	16		13	17.3	14.7	14.3		16	17	17		15		15	17		15	16	18
06S31E-36DCC1	4400								47.5	52												
06S32E-02ABD1	4394				20.5				23													
06S32E-11AAC1	4402				20.5				21													
06S32E-13BAD1	4408				4				6	7												
06S32E-27ADC1	4417	34.6	36.6	31.5	30.9	28.3	32.8	30.3	33.8	36.5	35	36	35.5	37	32	36	33	32.5	30	30.5	31.5	35
06S32E-28ACC1	4407				40				57													
06S32E-29DCB1	4403								62.5	70.5												
06S33E-02BDD1	4442	41							40	41.3												
06S33E-03ACD1	4432				29.5																	
06S33E-03BDC1	4424	23			21.5																	
06S33E-07AAD1	4420				15																	
06S33E-08BBD1	4417				14																	
06S33E-08CBD1	4425				22																	
06S33E-08DDA1	4446	43			42.5																	
06S33E-15DCA1	4486										86	86										
06S33E-18AAB1	4423										24	24										
06S33E-21BCB1	4436	34							33	34.5												
06S34E-36BDB1	4480														58	56.3	20					
07N31E-28DAB1	4891				312	309	307	306	305	305	307	308	310	312	314	316	316	316	316	314	314	
07N31E-34BDD1	4849	269	270	270	269	267	265	263	262	263	265	266	267	270	272	274	273	274	273	272	271	271
07N33E-05BBB1	4796										212											

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
07N33E-14DDC1	4783	81	92								108											
07N33E-34AAA1	4784									6	5	5	3	6.5	5	5	4	5	4	5	5	5
07N33E-35BCC1	4784	16	16	15	14	19	15	13														
07N33E-35DDD1	4782	107	116								122	122										
07N34E-03BDD1	4798	21	30																			
07N34E-03CDA1	4798	23	31																			
07N34E-04CDC1	4792	22.5	25	22.5	11.5	8.5	9	9.5	12	22	24	26	29	31	26	34	25.5	27	23	20.5	22	30
07N34E-16BCA1	4790	38	40																			
07N34E-23BAB3	4792	19																				
07N34E-24BBA1	4790												32	31	26.5	31	24.5	31.5	22.5	21	19.5	30
07N34E-24BBA2	4790									23	22.5	24										
07N34E-29ADB1	4783	49	59																			
07N35E-13AAD1	4790	7	8	7	4	1	2	2.5	4	7.5	8.67	10.5	12	14	12.5	15	10.5	11.7	9.5	9	6.5	9
07N35E-13AAD2	4790	6	6.5	7	5.5	3	2	2	2.5	4.5	7	9	10.5	12.5	13	13	12	10.7	10	8	7	8.5
07N35E-13AAD3	4790	1.5	1.5																			
07N35E-13AAD4	4790	1.5	1.5	1.5	-0.5	-1	0	-1	-1	1	2.67	4.5	6.5	8.5	6.5	9	5.5	5.67	3.5	3	1.5	3.5
07N35E-13CCC2	4794												15	16	15	16	13	15	12	11	9.5	14
07N35E-20CBD1	4818	50.2	55.6	49.9	38.6	33.7	36.9	35.7	39.2	48.9	48.6	51.6	57.5	59.2	51.7	60.3	49.7	56	48	46	44	55
07N35E-25DAC1	4784											14.8										
07N35E-25DAC2	4784											15										
07N35E-26CDD1	4790									16	15	21	18.5	20	13.5	21	14	16.5	12.5	13	7	14
07N35E-32DAD1	4779											2.83										
07N35E-32DAD2	4779											3										
07N35E-34DDB1	4786	148																				
07N36E-02ADB1	4935	145	146																			
07N36E-05CAA1	4798	12																				
07N36E-09BBB3	4795											12	14.5	16	14.5	16.5	12.5	13	11.5	10	9	12
07N36E-11CCA1	4855	61	63																			
07N36E-14CBA1	4789									6.5	7.5	9.5	10.5		11.5		10	10	9	7	6.5	10
07N36E-20CCA1	4785										4	9										
07N36E-22ABD4	4792	9	10	9	6	3	4	3.5	5.5	8.5	9.5	11.5	13.5	16	13.5	15.5	12	12.5	11	9.5	9	12
07N36E-22DAB1	4795	14	14																			

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
07N36E-31BDD1	4792	56																					
07N36E-32BAB1	4791	10	12								15.7	22											
07N36E-33CBC1	4808	28																					
07N37E-03CCD1	4858	68	70																72				
07N37E-05BCC1	4909	119	121	121				115	117	121	0												
07N37E-06BCC1	4930										148	150	153	154	152	154	151	152	149	148	147	150	
07N37E-14CBC1	4864	77																					
07N37E-28CCD1	4849	66	66	66	63	60	61	62	63	66	67	69	70	67	70	72	69	70	68	67	66	68	
07N38E-23DBA1	4852	41.8	42	41.1	39	36.6	37.1	37	38.1	42	43	45	47	50	47.5	50	46.5	46	45	43.5	43.5	45	
07N38E-23DBA2	4852	36	35.3	35.2	34.4	33.3	33.6	33.5	34.1	35.5	36.1	38.4	40.3	42	43	43.7	42.6	42.4	42	41.5	40.5	41	
07N38E-23DBA3	4856	40	39.5	39	38.5	36.5	38	37	37.5	39.5	40	42	44	46	47	48	46.5	46.3	45.5	45	44	45	
07N38E-23DBA4	4856	45	46								46	49											
07N38E-23DBA5	4856	45	46								46.3	48.5											
07N38E-23DBA6	4856	45	45.5	45	43.5	40	40.5	40.5	42	46	46.3	48.5	50	54	51	54	50	49.7	48	47	47	49	
07N39E-01CCD1	4904	77	76.5	76.5	75	72	75	72	73.5	77	79	82	83.5	87	85	87	84	83	82	81	83.5	83	
07N39E-01CCD2	4904	48	45	51	49	50	50.5				51	51	51	52									
07N39E-07BDA1	4874	57.3	58	57	56.5	54	56	54	55.5	59.5	61	62.5	65	69	66	69	64	64	63	62	60.5	63	
07N39E-15CCB1	4873	9.5	10																				
07N39E-16DBB1	4873	57.2	57.4	56.5	55	52	54	52	53.5	57.5	58.5	60.5	62	66	63	66	62	62	60.5	59	59	62	
07N39E-16DBB2	4873	26.9	28.2	26.5	26	25.5	25.5	24.5	26.5	27.5	29.5	31.5	36.5	42	43	43.5	42.5	42.7	42	39	42	44	
07N39E-16DBB3	4873	7.67	7.29	8	7.5	6	8	7	9	8.5	7.5	11	18	21	19	20.5	19.5	19.7	20	10	18	26	
07N39E-29CDC1	4850	4	3.5	4.5	4.5	4.5	4.5	4	4	4	4.5	4.5	10.5	14	17.5	17.5	18	18	19.5	20	16.5	19	
07N39E-34CCB1	4828	13.2	13.5	13	11	9	9	9	10.5	14.5	14.5	16.5	19	22	19	22	18	18	17.5	16	15	17	
07N39E-34CCB2	4828	5.5	5.5	4.5					10														
07N39E-35CDD1	4843	4.5	4.5																				
07N40E-05DBC1	4920	5.5	5	5.5	5.5	6	5.5	5	4.5	4.5	5	5.5	5	5	6	5	6	6	6	5	6	7	
07N40E-08DDD1	4898	8.5	7																				
07N40E-19ADD2	4856	30.1	30.1	29	27.5	25.5	26.5	24	26	30.5	31	33.5	35	40	36	40	35	34.3	34.5	32	32	34.5	
07N40E-19ADD3	4856	13.6	13.8	13	13.5	13	13.5	11.5	12	14.5	14	16.5	15.5	21	16	20	15.5	15.3	15.5	13	14.5	13.5	
07N40E-19ADD4	4857	2.89	3.5	3	3.5	4	4	3	3	3	3	4.5	3.5	9	3	7	3.5	3	3	1	3	3	
07N40E-19DCD2	4862	7.5	7.5																				
07N40E-23CCB1	4924	32.5	32.5	34	29.5	32.5	37	20	24.5	35.5	27	38	40.5	45.5	42	44	35.5	35.7	34.5	39	39.5	41	

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
07N41E-14ABA1	5106							116	115	116	114	115	113	119	114	117	113	113	114	113	113	116
07N41E-32DDA1	4990							111	114	124	121	126	129	138	127	137	127	128	125	122	125	134
07N42E-06DDA1	5264	252	258	252	255	254	255	252	252	257	250	253	252	263	251	259	252	248	246	248	250	
07N42E-10DCD1	5330	161	164																			
07N42E-17BAD1	5319	328	334	334	327	327	328	321	162	339	340	336	336	356	334	347	337	339	325	332	336	
07N42E-19ABA1	5333	345	347	345	342	340	340	337	339	345	343	345	344	350	340	346	340	342	337	338	331	
07N42E-32BBB1	5357	448	457	447	432	426	414	408	210	435	430	440	443	445	422	436	421	428	423	427	431	
07N43E-12BCB1	5720	313	324	306	291	260	279	267	296	303	304	316	323	331	309	321	296					
07S13E-05DDD1	3379															175	176	176				
07S13E-07AAA1	3395															176						
07S13E-09CBB1	3345							93.6	91.5	87					91.7	92	93					
07S13E-09CCC1	3342							200	195	193			195	188	188	187	186	185				
07S13E-09CDC1	3374							107	104	107												
07S13E-09CDD1	3401															218	220					
07S13E-09CDD2	3403															218	220					
07S13E-09DCB1	3401															232						
07S13E-09DCC2	3402															219	220	220				
07S13E-11CAC1	2880								82	82.3	82											
07S13E-17AAB1	3346							111	109	109			115	114	121	121	121					
07S13E-17ABB1	3374							145	143	139			148	146	147	147	148					
07S13E-19ADD1	3388							41.7	40	39.5			64.5	66	69	69.6	70					
07S13E-19DDA1	3410							127	124	122			121	120	120	119	118					
07S13E-24ABC1	3095								271	274	274											
07S13E-27AAB2	2885								78	79	78											
07S13E-27ABB1	2885								79.3	-4	5											
07S13E-29ACD1	3440							104	110	125			135	135	135	136	139					
07S13E-30AAD1	3433							75.3	83	87												
07S13E-30DAA1	3445							147	148	149			151	148	149	149	147					
07S14E-05CDD1	3311																		159	166	167	163
07S14E-19BDD1	3214								54.7	56.3	56											
07S14E-21AAA1	3350								177	182									179			
07S14E-25BCB1	3335								84.7	88												



Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
07S14E-28DCB1	3275																103	99		108	99.3	100	
07S14E-29CDC1	3267																105			89	88.3	90	
07S14E-31ABA1	3285																			197	196	203	
07S14E-33BBB1	3271						99.5	99	100	101	101	102	102	105	103	102	104	104	102	102	102	103	
07S14E-35CCB2	3280									90.3	124	117	114	112	111								
07S14E-35CCB3	3280									12	15	17.3	18	20	20.3								
07S14E-35CCB5	3280									171	172	172	173	174	175								
07S14E-35CCB6	3280									74.8	74	72.7	98.5	76.3	76								
07S15E-12CBA1	3600			230	226	225	224	224	224	229	229												
07S15E-12CBA2	3600			70.3	74	75	75	75.3	76														
07S15E-12CBA3	3600			165	163	163	163	162	163														
07S15E-12CBA4	3600			165	163	164	163	162	163	167	167	168	170	174	173	172	172	170	167	167	167	166	
07S15E-12CBA5	3600			74	73	72.5	72	71	71	74	75	75.3	77.7	81	81	80.3	79.7	78	75.3	75	99.7	148	
07S15E-32DDC2	3402	133	147	137					132	135	136									137	140	138	140
07S15E-36DCA1	3484								140	142													
07S16E-14ADD1	3746																			287	289		
07S17E-06ACA1	3880	315	322	317	314	313	312	311	311	314	315	316	318	321									
07S17E-33BBA1	3842								279	281	281												
07S20E-33AAA1	4288	431		434																436			
07S24E-22CCB1	4291							218	219	220	223												
07S24E-31ACB1	4305							244	246	247	250	253	253	257	259								
07S25E-19BAA1	4320	249	250	250	249	246	245	244	243	246	248	253	253				261	261	258	256	256	256	
07S25E-27CDA1	4299				223																		
07S25E-29CAA1	4329				254																		
07S25E-31BDD1	4272				199																		
07S25E-34CAD1	4301	220	222	222	222	220	218	217	216	219	222	225	227	230	231								
07S26E-14CCC1	4403	315	316	317	315	312	311	309	309	311	314	317	319	322	324	326	327	327	324	322	321	321	
07S28E-25CCC2	4517		270	270																			
07S29E-12CCC1	4565							255	256	259	259	259	259	261	259	261	260	260	258	260	258	247	
07S30E-13DCA1	4386			44	45	44																	
07S30E-14DCC1	4415			51.5	50.3	48																	
07S30E-15AAA1	4468			123	123	124																	

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
07S30E-24DDC1	4394	62	67	56.7	56.7	55	64.3	57.7	68.3	75	73	77	71	74	63	74	62	62	59	60	62	65
07S30E-25ADD1	4394			68	67.3	67																
07S30E-26DDD1	4395			58	58.3	58																
07S30E-28BBC1	4534	201	206	198	197	197	198	197	200	205	204	205	203	206	200	203	201	202	198	199	199	205
07S31E-11BDD1	4422								63.5	66.3												
07S33E-06CDA1	4460								38	38												
07S33E-06CDA2	4460								43													
07S33E-06CDA3	4500									43	43	42	43	45	43							
07S33E-06CDA4	4500									34.7		34.5	34.5	34	33							
07S33E-15DBB1	4880								87.5	90												
07S33E-20CAD1	4550								28.7			28										
07S33E-20CAD2	4560											30	30.5	30	27							
07S33E-20DBD2	4560									35		37	37.5	36	34							
07S33E-29DBB2	4550								32.7	33.2	31.2											
08N33E-14BBA1	4807										74.7	84										
08N33E-15CAD1	4805	68																	81			
08N33E-18CAA1	4830	243	244																			
08N33E-25BBB1	4794	9																				
08N33E-33DDD1	4790										74	78										
08N34E-05BBA2	4816	31																				
08N34E-11CDC1	4860	75	81																			
08N34E-11DCC1	4870									87	88	90	92.5	94	92	94.5	90	91.5	89.5	87.5	86	91
08N34E-14ABD1	4866	81																				
08N34E-15DCA1	4822	40	45																			
08N34E-17CCC3	4809	55	55	55	49.5	46	45.5	47	50	56	56	58	59.5	65	58.5	69	61	66.5	60.5	62	62.5	69
08N34E-17CCC4	4809	57.5	58	58.5	53	48.5	49.5	50	50	57.5	58.7	61.5	66	72	61	73	65.5	68.5	66	60.5	59	65
08N34E-17CCC5	4809	171	172	173	170	167	166	166	166	169	169	171	172	175	176	179	176	178	176	176	174	176
08N34E-17CCC6	4809	225	226	227	225	223	221	220	219	219	221	222	224	226	228	230	230	230	229	228	227	227
08N34E-17CCC7	4809	30	30	30	28	23	26	27	28.5	30	30	30	30.5	30.5	30.5	31	31	31	30	30	30	30
08N34E-27CDD1	4805									42.5	42.7	46.5	48.5	49	43	54	44.5	48	43	41.5	38	49
08N36E-03DBD1	4853									57	58	60.5	62.5	64.5	62.5	65						
08N36E-03DCD1	4845									53							56	56.5	55	53.5	52.5	56

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
08N36E-09ACC1	4842	14																				
08N36E-10BDD1	4837									28.5	30	32	33	34.5	34.5	35.5	36	37	37	37	37	38
08N36E-21DCD1	4810									23	24.3	26.5	28.5	30.5	28.5	30.5	26.5	27	25.5	23.5	23	26
08N36E-28ACD1	4807	19	21																			
08N36E-28ACD2	4807	19	21																			
08N37E-10CBD1	5060										279	281										
08N38E-06DDA1	5338																					
08N40E-01CAD1	5161	333	333	332	330	326	326	324	327	330	333	336	338	341	341	341	340	337	335	335	334	334
08N40E-06CCC1	5090											273	275	280	277	279	276	275	273	272	272	272
08N40E-21DDD2	4964	134	134	132	131	127	129	126	128	133	134	138	139	144	141	143	140	137	136	136	136	136
08N40E-21DDD3	4964	134	134	133	131	128	130															
08N41E-25CBB1	5075							54.3	58.3	63.3	57	55	36.5	74	53.7	66		49.5	50.5	49.5	52.5	
08N41E-33ABB1	5010							45.7	44.7	52.3	53	55.3	53.7	63	53.7	54	56	50	56.5	57	53	
08N42E-09BAB1	5200							52.3	53.7	69.3	60	58.5	65.7	66	53.3	66	50	55	58.5			
08N43E-06BAA1	5295							28.3	31.7	37	32.7	38	36.7	43	31.3	36.5	29					
08S13E-23CCD1	3390	66.5	70.5		70	68.5	69	68.5	69.5	70	69.5	68.5	70	69	67	69	69.5	69	69	68.5	69	69
08S13E-26AAD1	3330						150	136	119	182	131	137	103	135	117	139	103	98	81	89.5	83.5	68
08S13E-27DDA1	3408								183	192												
08S14E-03DDA2	3255								55.5	57	58											
08S14E-05BAB1	3222								139	139	139											
08S14E-09BC1	3222								43	44.5												
08S14E-09CBB1	3200								71.7	72	73											
08S14E-09DCA1	3230								76.7	77.7	78											
08S14E-10BDD1	3232								41.7	43.5												
08S14E-12CBC1	3272		63	66			61.5	61	61.3	63	65.3	63.5	64.7	68.7	68	67.5	68	66.5	66	66	66	66
08S14E-15BAA1	3231								41	42.7	43											
08S14E-16ACC1	3204								60.7	61	60											
08S14E-16CBB1	3175	38.1	38.3	38.1	38	38.1	38	38	38	38.8	38.8	39	39.1	40	39.5	39.5	39.5	39.3	39	39	39	39
08S14E-21ABA2	3262																			30	29	31
08S14E-23AAA1	3305																			106	107	107
08S14E-30DDB1	2910						-186	-184	-183	-186	-186	-187	-187	-187	-185	-181	-172	-171	-157	-158	-168	-170
08S14E-33CBC1	2890						-87															

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
08S15E-04DAA1	3382								91.5	96												
08S15E-16CCC1	3345																		78	78.7	79	82
08S15E-28AAD1	3367		94.5	94																		
08S15E-32CBB1	3308						66.3	63.7	64.3	66.5	66.3	67.3	68.3	72.7	70	71.3	71.3	70.3	68	69	70.3	70
08S15E-36CBB1	3416	122																	129	129	131	
08S16E-17CCC1	3490								152	154	154	156	157	165		162	160	160	159	158	158	159
08S16E-18AAA1	3516	162		163		163	161	161														
08S16E-21AAA1	3582																		191	190	188	190
08S16E-26BCC1	3620																			175	176	175
08S17E-25BDD1	4042																		414	413	413	
08S17E-32AAA1	3831						283	281	282	285	283											
08S17E-33DAD2	3285											250	251	254	253	254	254	253	253	250	251	251
08S18E-21BB1	3992		354	355																		
08S19E-05DAB1	4076	275	276	277	275	271	272	271	271	274	275	275	279	284	282	248	284	282	280	277	277	279
08S19E-34DAD1	3974																		158	167		
08S21E-26ADB1	4250											345	341	346	346							
08S21E-35CCC1	4217							320	321	322												
08S22E-35DCC1	4247							206	207	209	209	211	214	214	215							
08S23E-01CCC1	4268							216	217	220	222	224	226	230	230							
08S23E-05ADA2	4297							247	248	251	251	254	255	259	260							
08S23E-15BAD2	4268	221	223	224	224	221	220	219	218	220	223	224	228	230	231							
08S23E-19DBC1	4266							221	223	224	225	228	228	231	232							
08S23E-27BDC1	4235	189	190	189	194		190		189	191									201	200	201	200
08S23E-28CCB1	4238							189	191	192	193	196	196	200	201							
08S24E-02DAB1	4249	175	176	177	177	172	171	170	172	172	174	177	180	182	184							
08S24E-08ADA1	4253		186	186	186	184	181	178	180	181	182	185	185	189	190							
08S24E-14CDC1	4222							142	142	146	148	151	151	154	155							
08S24E-18BCA1	4248							189	189	192	196	196	197	201	203							
08S24E-31CDC1	4243							169	168	171	173	176										
08S24E-31DAC1	4227	157	158	158	157	154	154	152	152	154	157	159	161	164	165	167	168	168	166	164	164	165
08S25E-03BBB1	4294							213	213	215	218	221	222	226	227							
08S25E-06ADD1	4253							170	171	173	176	179	182	185	186							

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
08S25E-15CCA1	4245							160	162	162	164	167	170	172	174								
08S25E-16DAC1	4243	167			166	164	161	161	160	162			171	173		181	185		188			173	173
08S25E-23BBB1	4253							167	168	170	172	175	177	180	182								
08S25E-36DAA1	4209	111	112	113	112	110	109	107	108	111	112	115	116	119	119	121	120	120	118	117	117	117	117
08S26E-03DCC1	4347	260	262	262	260	258	257	255	255	257	260	263	265	268	270	272	272	272	270	268	267	267	267
08S26E-27ABA1	4238	137	139																				
08S26E-33BCB1	4213	110	112	113	111	110	109	107	108	111	113	115	116	119	119	121	121	120	118	117	117	118	118
08S26E-33BCB2	4213	21.5	22	21.5	21	21	22	22	23.5	24.5	24	24.5	24	25.5	23	24.5	24.5	22	23	23	23	23	23
08S27E-07DBC1	4325																174	174	174	172	173	172	172
08S27E-23DDD1	4296	75	75					72	73	74	76	76	77	78	78	78.5	78	79	77			76	
08S27E-31DDA1	4202	27	28.5	28	27	26.5	26	25.5	26	28	29	30	30	33	30.5	32.5	32.5	31.3	31	31	31	31	31.5
08S28E-01AAA2	4495						228	229	230	233	234	234	234	236	234	236	235	235	233	232	234	236	236
08S28E-21AAC1	4398						159	159	160	162	163	163	164	165	165	165							
08S28E-32CDD1	4379							158	159														
08S29E-21ADD2	4436			191	191	188	187	187	189														
08S29E-23BAB1	4447			189	189	186																	
08S29E-34CBC1	4389	148	149	150	149	148	148	148	148	149	149	151	150	151	151	152	152	152	151	150	150	151	151
08S29E-34CBC2	4389	152	154	154	153	154	155	156	157	158	159	161	160	161	160	161	160	160	160	158	158	160	160
08S29E-34CBC3	4389	93	94	96	97	98	99	100	101														
08S30E-18CCA1	4397			144	146																		
08S30E-23DCC1	4512	207	208	209	208	208	206	206	205	204	205	205	206	206	206	205	206	206	206			205	205
08S31E-04CBB1	4568	244	243	243	240	239	238	239	239	241	243	244	243	244	242								
09N33E-11BAC1	5010	77																					
09N33E-12BAC1	4898	184	188																				
09N33E-13BAA1	4893	177	180																				
09N33E-20ACC1	5091	426	426																				
09N33E-24BAA1	4878	176	180																				
09N33E-36ACB1	4823																						
09N34E-11ADD1	4945	157	157	157	155	149	152	153	154	157	159	161	163	165	163	166	160	162	160	158	157	160	160
09N34E-27BDB1	4853																						
09N34E-29DAA1	4839	61						56.7	59.7	63.5	63	65.5	66	68	70	74.5	66.5						
09N34E-29DAA2	4839	61						56.7	59.7	63.5	63	65.5	66	68	70	74.5	66.5						

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
09N34E-29DAB1	4838	59																	64	62	64	67
09N36E-04BAA1	5055							259	261		266	268	270	272	271	273	269	269	268	266	265	268
09N36E-15CCC1	4952	158	159							158	160	162	164	166	164	166	163	163	161	159	159	161
09N36E-21CCA1	4920	128	130																			
09N36E-27BCB1	4300										114											
09N36E-31BAD1	4919	127	128								130											
09N36E-33CBB1	4865	79.2	79.9	79.2	76.2	72.6	74.1	74.2	75.8	79.1	80.7	82.8	84.7	86.8	84.7	87.4	83.2	83	81.5	80.5	79.5	84
09N37E-06BBD1	5175	378																				
09N37E-06BBD2	5175	378																				
09N38E-05BBA1	5495											704	707	709	708	710	707	706	705	703	702	704
09N39E-04AAC1	5668		846		842	838	835	835	837	842	845	848	851	855			852	849	847			
09N40E-05DDD1	5535		707		702	698	694	695	698	702	706	708	713				713	710	708	707	706	706
09N42E-34DDA1	5228	10	10.5	10	10	10	11	5.5	11	12.5	11.5	12.5	12	14	10.5	12	10	11	11			
09S13E-20CCD1	3805	453	449	449	449	447	446	440	440	435	433	433	430	428	426	425	416	423	422	424	424	424
09S13E-32CDD1	3810			506	503	496	493	494	471		446	444	433	430		424	420	403	415	417	422	
09S14E-03BAA1	3209	72	73	72.5	72	72.5	72	72	72.5	73	73	73	73	75	74.5	74.5	74.5	74	73.5	74	74	
09S14E-04BBD1	2938	-137	-113		-110	-90	-83	-84	-78	-81	-96		-88	-87	-88	-85	-83	-79	-66	-77	-50	
09S14E-09ADC1	3000				-125	-121	-113	-121	-113	-116	-132		-120	-136	-127	-129	-126	-125	-122		-125	
09S14E-13DDD1	3514						21	17.5	7.67	11.5	15	19	19.7	20	26	28.5	26.5	31	26.3	34.3	29	
09S14E-14BDB1	3127	-327			-264	-228	-269	-286	-213	-227	-237		-210	-196	-187							-164
09S15E-16DDD1	3572		34.5	33			34															
09S15E-30CAD1	3675			61																		
09S16E-07DCA1	3448	98	102	97	99.5	101	99.5	99.5	101	102	105	109	110	111	109	109				115	111	107
09S16E-09CCA1	3508																		134	134	134	142
09S16E-11DDD2	3580																		104	104	104	105
09S16E-20ADD1	3487					-206	-194	-197	-204	-202	-200	-201	-191	-181	-173	-171	-170	-168	-169	-167	-169	
09S16E-21DCD1	3545						11.5	12	12	12.7	11.7	12.3	12	12.7	12.7	12.7	13	12.5	12	12	11.5	12
09S17E-20CAA1	3632			277			287	294	289	297	298	296	297	305	300	301	299	298	297	298	299	299
09S17E-27BAA1	3641																			137	137	135
09S17E-28BDA1	3612						-17			-88	-83	-74	-60	-41	-15							
09S18E-04BBB1	3852																		213	213	213	214
09S18E-35CCA1	3818	138																				

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
09S19E-25BBC1	3932	120	122	122	121	119	118	118	117	120	119	119	124	127	123	125	128	127	124	121	122	122
09S20E-01DAA1	4211	367	369	369	368	366	365	364	363	366	367	366	371	376	374	375	377	376	378	371	371	372
09S20E-22BBB1	4083																			259	255	254
09S21E-01CAB1	4290	337	337	338	337	334	335	334	333	335	336	339	343	344	344							
09S21E-03CDD1	4198							319	318	320	322	323	327	332	332							
09S22E-07ADA1	4239									290	292	296	297	303	305							
09S22E-11BAD1	4213							201	216	205	206	211	214	218	219							
09S22E-15ACA1	4209							248	253	252	255	259	260	265	267							
09S22E-19BCB1	4203							315	315	318	320	322	324	326	326							
09S22E-20AAB1	4209							260	269	264	265	269	274	277	279							
09S22E-33ADA1	4192	240			241	239	239	238	236	238	240			244		246	247	247	246	245	245	245
09S22E-33DAD1	4197							274	279	279	281	284	286	291	292							
09S23E-06CDA1	4206	165	165	165	166	163	163	160	162	163	164	166	168	171	171							
09S24E-31BAA1	4151	22	23	23																		
09S25E-01ABD1	4210	98	99.3																			
09S25E-03CAC1	4157	44.8	46.2	47.4	45.7	45.2	44.9	44	45	48	49	51.3	52.7	55.3	55.3	57.3	56.3	56.7	54	53.3	52.7	53.5
09S25E-18DDA1	4206	21	23.3	25.7	24	22.7	23.3	21.3	22.7	27	28	30	31	34	33	35.7	34.7	34.3	31	31.3	31.3	33
09S25E-23DBA1	4267	130	132	134	133	131	132	130	132	136	137	139	140	143	142	144	144	143	140	140	140	142
09S26E-07AAB1	4200	64.7	67.3	69.3	67	66	66.5	65	66.5	71	72.5	75	75	79.5	78	80.5	79	78	74.5	74.5	75.5	74
09S26E-07AAB2	4200	65.3	68	69.3	68	66.5	67	65.5	67	71.5	73	75	76	79.5	78.5	81	80	78.5	75	75.5	75.5	75
09S26E-07AAB3	4200	27.7	31	30	28	25.5	26.5	22.5	24	22.5	27.5	29.5	29	33	32.5	36.5	32	32.5	32.5	31	31	32
09S26E-10DDD1	4217	81			83	82.5	83	80.5	82.5	87	88	89	91	94	93.5	95.5	95	94	91	91.5	91.5	92.5
09S26E-13CCC1	4281						147		146	150	152	155	156	158	159	160	164	159	156	155	155	
09S27E-25DDB2	4200						21															
09S28E-18BAD1	4217	13	14	13.5	13	12	12	12	12.5	13.5	14	14.5	14	15	14.5	15	15	15	14	14	14	14
09S28E-18BAD2	4217	11.5	12.5	13.5	13.5	12	13	11.5	11	13	14.5	16.5	18	19.5	20.5	22	21.5	22	22	21	20.5	22
09S28E-18BAD3	4217	31	31	30	30	30	30	29	29	29	28	28	28	28	28							
10N34E-29AAC1	4990	228	232																			
10N34E-29BDD1	5030	261						258	260	265	268	271	275	278	276	280	274	274	273	268	270	274
10N35E-13CBC1	5151		359					351	353	356	359	362	363	367	363							
10N35E-32DBA1	5030																		244			
10N36E-21CCC1	5140															358	354	355	353	351	350	353

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
10S13E-02DCD1	3725			252			254	249	251	252	251	250	250	254	251	251	251	250	248	249	251	
10S13E-10BBC1	3823							379	376	369	363	362	360	358	356	353						
10S14E-19CAD1	3885																				124	
10S15E-20CDD1	4030			131																		
10S16E-03DDD1	3705	55		55																		
10S16E-07DAC1	3780			25			26.5	25.3	25.7	26.7	25.5	26.7	27	29	27	27.5	27.5	27	27	26		
10S16E-15DDC1	3817		46	46																		
10S17E-04CDA1	3661					-46	-25	-41	-52													
10S17E-05DAA1	3650					-81	-55	-66	-79	-78	-72	-79	-63	-50	-39							
10S17E-10BDA1	3711					7	12	27	0	0							119					
10S17E-12ADD1	3790																		103	104	105	103
10S17E-14CCD1	3788						48	48	47.3	47	48	48	48	48.3	49	49	49.7	49.3	49.3	50	49.7	50
10S17E-19CCC1	3797	9																				
10S17E-29ADD1	3865																			83.3	82.3	
10S17E-33BBA1	3927	139																	141	140	139	135
10S18E-18DCD1	3845			124																		
10S18E-20DDD1	3919	175	175	175	176	176	175	175	176	177	176	176	177	177	178	177	178	176	177	178	179	177
10S20E-27BCC1	4182	339	345	342	342	340	339	339	343	342	343	345	345	349	351	352	353	350	345	345	344	342
10S21E-26AAA1	4197	258	260	263	262	259	259	258	257	261	133											
10S21E-26AAA2	4197											265	267	273	273	274	274	275	273	271	272	
10S21E-28BCB1	4157	305	306	306	307	304	304	303	303	306	306	305	309	313	313	312	315	314	311	309	310	
10S22E-03CBD1	4221							298	300	306	308	311	313	318	318							
10S22E-10AAD1	4196						81	81.3	81.3	82	81.3	81.3	81.3	80.7	81	81.5	82.5	81.5	79.5	82	80.5	81
10S22E-20CDC1	4150	231	236	238	236	234	235	233	234	239	239	245	246	251	250	252	250	252	250	249	251	252
10S22E-22CCC2	4150								12													
10S22E-26ADA1	4155								22													
10S22E-35BCB1	4201								214													
10S23E-28AAC1	4187								34													
10S23E-35AAA1	4176								35													
10S24E-21ABB3	4153						7															
10S24E-36CDC1	4258			24																		
10S25E-10ABB1	4304							168	170		174		177	179		187						



Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
10S25E-17ABD1	4312	205																				
10S27E-30CCC1	4418	154	164				152	147	164	168	161	164	165	171	168	172	173	174	175	177		
11N35E-31DBB1	5349	232																				
11N39E-07DBC1	6244											534	538	543	546	544	537	529	526	524	520	518
11S14E-19AAA1	4025						202	190	191	191	186	184	184	193	186	192						
11S15E-02BBB1	4142	230		229			226	224	226	226	227	225	225	226	225	225	225	223	221	221		
11S15E-07ACB1	4108	219	220	221	221	220	220	222	221	222	222	223	222	224	222	222	221	220	220	220		
11S17E-09CDC1	4174	287																		288		
11S17E-25DDD2	4139	84	85	82	80	74	71	76.5	82.5	83.5	83	84	83	84	79.5	83.5	79	80.5	80.5	77		
11S19E-13CDC3	4151											62	62	62	61.3	61.3	61.3	61				
11S19E-14ABB2	4200											259	300	261	243	248	235	222				
11S19E-14CDD1	4180												248		256	220						
11S19E-17ABA1	4229	328	330	332	331	327	326	326	326	328	331	332	333	336	335	334	332	329	325	322	322	322
11S19E-23CDA1	4190	256	252	253	239	237	214	234	256	298	259	243	264	280	246	263	235	195	176	260	240	229
11S19E-24CBC2	4189											257	239	212	148	62.4	77.9	128				
11S19E-24CCA1	4177													125	118	115	107	98.5	91.8	98.5	95.3	
11S19E-26ACC2	4196														323	132	221					
11S19E-26ADD2	4196													200	177	247						
11S19E-26ADD3	4196															249	224	201	187	260	231	
11S19E-26CDD2	4210															268						
11S19E-26DCC5	4209															139	65.8	154				
11S19E-27CAD1	4192															302	290	285	253			
11S19E-30ADD1	4157	92.3	96.7	95	94.5	91.3	91.7	86.3	93.7	96	97	98.5	101	107	104	105	103	101	98	100	100	102
11S19E-31ADD1	4198	165	168	187		181	171	159	191	183	182	190	198	224	212	225	227					
11S19E-35AAA1	4207																275					
11S19E-36CAD2	4227								118	125	96.3	108	99	153	97.3							
11S19E-36CDA1	4227															124	113	114	111	110	112	
11S20E-21ACB1	4164					72	75	71.7	74.7	79	84	86	88	91	88	89	88	82	75	72	75	
11S20E-24DDD1	4258	252	261	265	266	257	265	265	273	280	286	292	296	303	305	308	308	313	312	311	314	320
11S20E-28DDC1	4204																		117			
11S20E-31CDA1	4225														91.9							
11S20E-31CDA2	4225																194	195	188	183	182	

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
11S20E-33DAD1	4245	213	247	214	213	208	217	218	224		237	235	238	243	243	234	214	220	195	198	207	
11S20E-34CBA2	4245															87.6	180	158				
11S21E-11ADD1	4385		488	487	486		484	482	485		491	494	496									502
11S21E-14BAA1	4361						472															
11S21E-15BBA1	4338		488	489	489	486	485	486	485		488	416	438	420	431	430			443	492	493	
11S21E-23CBC1	4392					494	495	492	496	507		517	521	527	534	529	531	532	533	528	521	
11S21E-25AAA1	4376		474	473	471	468	470	468	471		476	481	482	488	487	487				490	489	
11S21E-33BBB1	4323		356	336	335	343	330	331	333		344	354		352		370	377	382	380	379	382	
11S22E-14DAC1	4243					324	326	324														
11S22E-16BBC1	4321			414																		
11S22E-26ACC1	4269			353	352	350	351	349	357		356		362	368	366	371	368	372	368	370	371	
11S22E-32CCC1	4310	399	410	401	402	399	401	398	401	407	411	415	416	424	422	426	421	427	424	422	423	432
11S22E-35CCC2	4295					383	380	380	386	400	404				422			411		409	410	
11S23E-08CDD1	4228						36															
11S23E-09ABB1	4217								25													
11S23E-14DDD1	4230						26	24.7	24.7	26.7	26	27	29	31	30	30.5	32.5	32.5	29	29.5	30.5	29
11S23E-33CCC2	4276					327	332	328	338	344												
11S23E-34CDC1	4271	350	351	355	350	343	345	342	346	352	356	362	364	369	363	367	362	366	362	362	365	365
12S16E-12DDD1	4360						154															
12S19E-02ACD1	4282								405		430		397		395	459	406	400				
12S19E-02ADC2	4278															453	404					
12S19E-02BBB1	4268					386	394	384	422	419	414	414	423	451	428	422	402	401	384	396	370	415
12S19E-02BBC1	4268		402	377	364		382	374	409		391	409		364		370	393	403	381			
12S19E-03ADD1	4295								421	415	411			426		425	405		407		408	
12S20E-03CAC2	4330																361	348				
12S20E-04DBC1	4320	246	248	247	247	242	245	242	246	251	254	256	257	258	257	256	256	257	253	252	250	252
12S20E-25CCB1	3795	393	406	405	387	377																
12S21E-02DAA1	4361	426	438	433	425	412	429	410	424	446	443	451	457	467	459	471	468	470	467	463	462	473
12S21E-05BCB1	4302		297	297	297		302	292			329	344			356	359	369	379	366	352		
12S21E-16DCC1	4378	118	124	127	127	123	111	109	113	126	131	133	135	137	138	138	139	136	133	131	128	129
12S21E-19DCC1	4480						292															
12S21E-25CCC1	4410	380			370	358	367	348	369	387	423	399	418	436	434	442	442	433	428	426	427	463

Depth to Water: Fall 1980-2000

3/16/01

Well Number	LSD Elev	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
12S21E-26CCD2	4435		404	403	398	370	394	372	395		418	436	436	453	449	456	464	473	458	461	459	
12S21E-28DCC1	4461						139	134	148	148	226	237	257	266	231	278	277	238		188	155	
12S22E-06CCB1	4338					403	404	394	407	424	435	440	442	453	447	466	450	456	449	442	455	
12S22E-18ACD2	4352		380	379	371	356	365	424	366	378	376	397								422	417	
12S22E-19BBC1	4363																				422	
12S22E-20BBD1	4364			328	327	317	320	318	322		320	340	344		350	363	366	370		352	346	
12S22E-20DDC1	4370							370	375				395	401	396	418	413	415	416	395	407	
12S22E-35BCC1	4387						430	417	425	449	453	463	467	474	473	468	471	471	463	455	458	441

## **APPENDIX II**

### **WELL NESTS AND THEIR LOCATIONS**

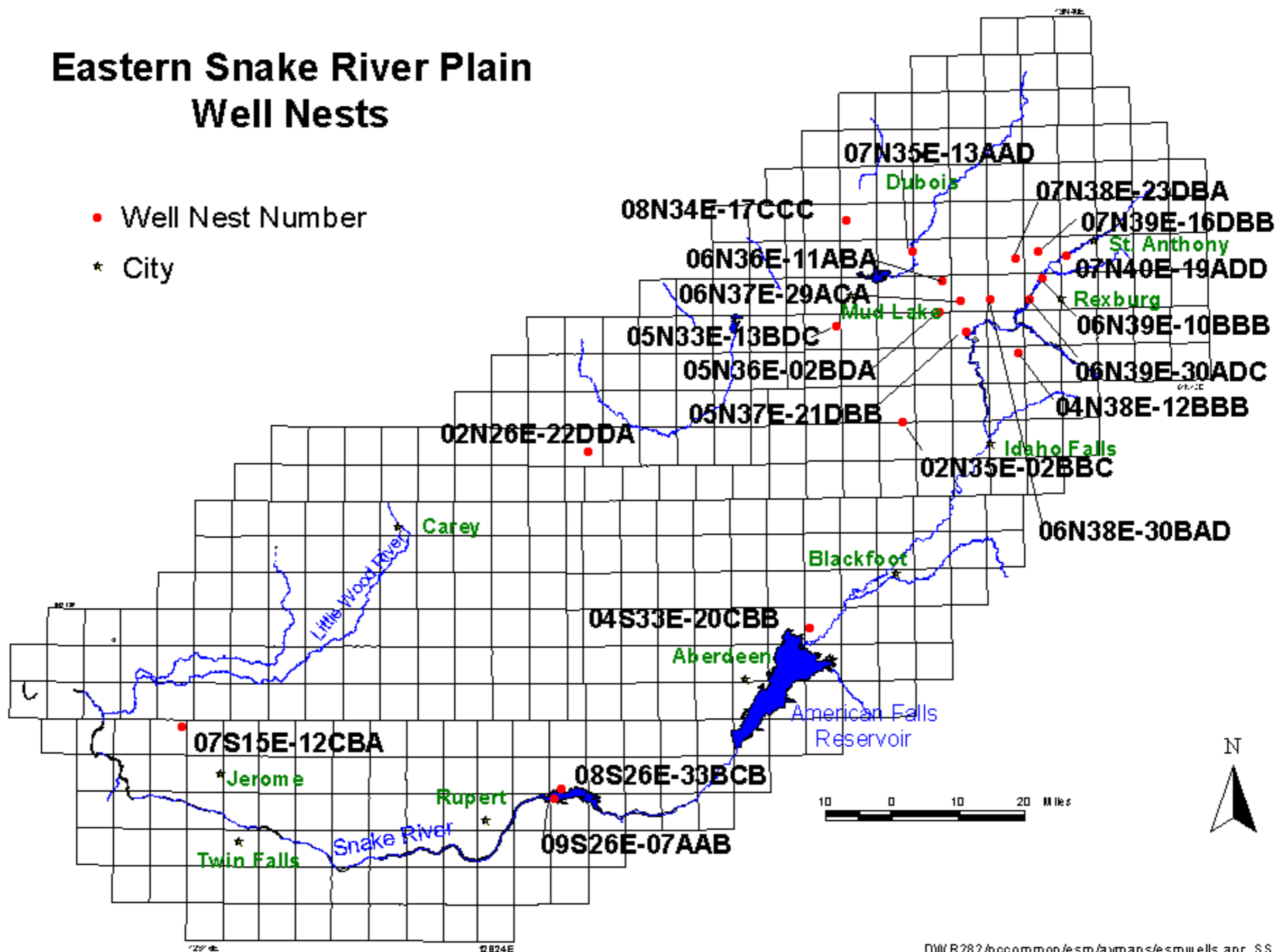
List of well nests in the ESRP given by Shane Bendixson 4/25/00

X	Y	ELEV	WELL ##	TD	WELL-OPENINGS
311073.3	4816841	4702.6	02N26E-22DDA1	722	670-719
311073.3	4816841	4377.9	02N26E-22DDA2	1053	670-1051
393259.7	4821231	4509.6	02N35E-02BBC1	883	108-679
393259.7	4821231	4509.1	02N35E-02BBC2	1038	910-914
393259.7	4821231	4510	02N35E-02BBC3	1302	1118-1122
424073.8	4838554	4810.2	04N38E-12BBB1	452	190-275
424073.8	4838554	4784.3	04N38E-12BBB2	540	472-490
424073.8	4838554	4784.7	04N38E-12BBB3	728	542-548
424073.8	4838554	4782.4	04N38E-12BBB4	852	752-758
424073.8	4838554	4726.4	04N38E-12BBB5	1026	910-916
364259.4	4773272	4403.3	04S32E-04CBA1	105	68-90
364259.4	4773272	4408.5	04S32E-04CBA3	310	266-270
364259.4	4773272	4410.3	04S32E-04CBA4	433	350-354
367037.8	4768464	4388.7	04S33E-20CBB1	65	0005-62
367037.8	4768464	4400.4	04S33E-20CBB2	108	64-68
367037.8	4768464	4406.6	04S33E-20CBB3	468	
367037.8	4768464	4412.5	04S33E-20CBB4	741	668-710
376716.1	4846913	4525.5	05N33E-13BDC1	405	276-317
376716.1	4846913	4528.5	05N33E-13BDC2	493	392-398
376716.1	4846913	4537	05N33E-13BDC3	1006	718-722
406996.4	4849766	4709.4	.5N36E-02BDA1	405	18-405
406996.4	4849766	4755.3	.5N36E-02BDA2	923	838-923
406996.4	4849766	4766.5	.5N36E-02BDA3	995	985-995
410628.2	4844274	4774.2	05N37E-21DBB1	302	190-290
410628.2	4844274	4774.6	05N37E-21DBB3	536	470-476
405116.5	4857773	4743.8	06N36E-11ABA1	260	118-124
405116.5	4857773	4777.8	06N36E-11ABA3	927	654-658
405116.5	4857773	4761.2	06N36E-11ABA4	1002	962-968
409711.9	4852587	4777	06N37E-29ACA1	90	21-62
409711.9	4852587	4772.5	06N37E-29ACA2	175	152-175
409711.9	4852587	4780.1	06N37E-29ACA4	573	505-573
417396.8	4852548	4779.9	06N38E-30BAD2	308	260-270
417396.8	4852548	4784	06N38E-30BAD3	544	442-448
417396.8	4852548	4779.9	06N38E-30BAD2	638	588-592
431231.7	4857482	4809.1	06N39E-10BBB1	290	168-260
431231.7	4857482	4808.9	06N39E-10BBB2	339	308-312
431231.7	4857482	4809	06N39E-10BBB3	570	376-382
431231.7	4857482	4810.6	06N39E-10BBB4	637	592-598
427512.6	4852153	4809.7	06N39E-30ADC1	295	263-295
427512.6	4852153	4809.7	06N39E-30ADC2	638	438-442
397382.9	4865850	4780.8	07N35E-13AAD1	592	322-328
397382.9	4865850	4779	07N35E-13AAD2	794	368-642
397382.9	4865850	4785.7	07N35E-13AAD4	1001	862-868
424307.7	4863019	4804	07N38E-23DBA1	263	65-236
424307.7	4863019	4808.5	07N38E-23DBA2	152	65-140
424352.3	4863018	4809.2	07N38E-23DBA3	230	127-202
424352.3	4863018	4805.4	07N38E-23DBA6	632	65-628
430482.1	4864772	4809.8	07N39E-16DBB1	444	28-444
430482.1	4864772	4827.1	07N39E-16DBB2	107	100-105

430482.1	4864772	4843.4	07N39E-16DBB3	38	32-37
437557.9	4863189	4818.9	07N40E-19ADD2	355	14-355
437557.9	4863189	4837.1	07N40E-19ADD3	40	34-38
437557.9	4863189	4851.8	07N40E-19ADD4	20	14-18
201593	4748406	3428.9	07S15E-12CBA4	675	665-670
201593	4748406	3522.3	07S15E-12CBA5	1123	1101-1104
380301.8	4874531	4762.8	08N34E-17CC3	440	340-350
380301.8	4874531	4757.4	08N34E-17CC4	545	512-545
380301.8	4874531	4637.2	08N34E-17CC5	888	602-888
380301.8	4874531	4581.5	08N34E-17CC6	1006	922-1006
380301.8	4874531	4778.6	08N34E-17CC7	50	40-50
300784.2	4728674	4091.9	08S26E-33BCB1	242	212-242
300784.2	4728674	4188	08S26E-33BCB2	33	0001-33
298747.9	4725985	4117.6	09S26E-07AAB1	150	145-150
298747.9	4725985	4117.2	09S26E-07AAB2	550	220-224
298747.9	4725985	4167.4	09S26E-07AAB3	804	778-783

# Eastern Snake River Plain Well Nests

- Well Nest Number
- ★ City



## **APPENDIX III**

### **FILE LOCATIONS AND GENERAL DESCRIPTIONS**



<b>Access File: IDWR499\pcccommon\Esrp\Access\esrp.mdb</b>	
<b>Query name</b>	<b>Description</b>
Fall 1980-2000	A Select Query run on tables Fall3plus and EsrpAll. Query includes all wells measured within the Fall 3-month interval for each year (1980-2000). Every well is listed once for each measurement date. Listed are: Well Number, Date of WL measurement and Water Level (WL).
Fall 1980-2000_Crosstab	A Crosstab Query run on Query5. Query includes the average water level for each well measured within the Fall 3-month interval for each year (1980-2000). Initial listing before filters were applied in Excel. Average WL is the average of all measurements for each well.
Spring 1980-2000	A Select Query run on tables Spring3plus and EsrpAll. Query includes all wells measured within the Spring 3-month interval for each year (1980-2000). Every well is listed once for each measurement date. Listed are: Well Number, Date of WL measurement and Water Level (WL).
Spring 1980-2000_Crosstab	A Crosstab Query run on Query9. Query includes the average water level for each well measured within the Spring 3-month interval for each year (1980-2000). Initial listing before filters were applied in Excel. Average WL is the average of all measurements for each well.

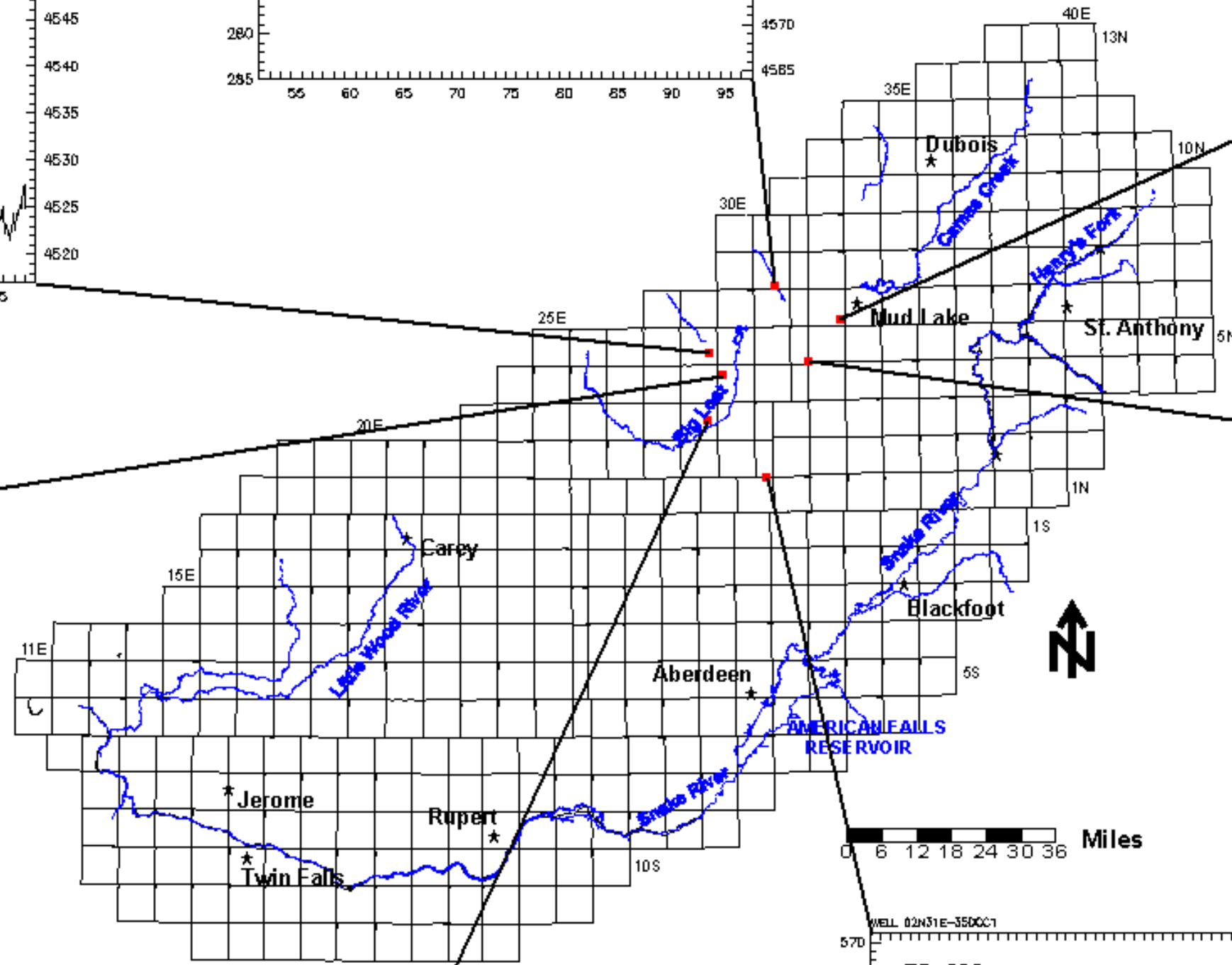
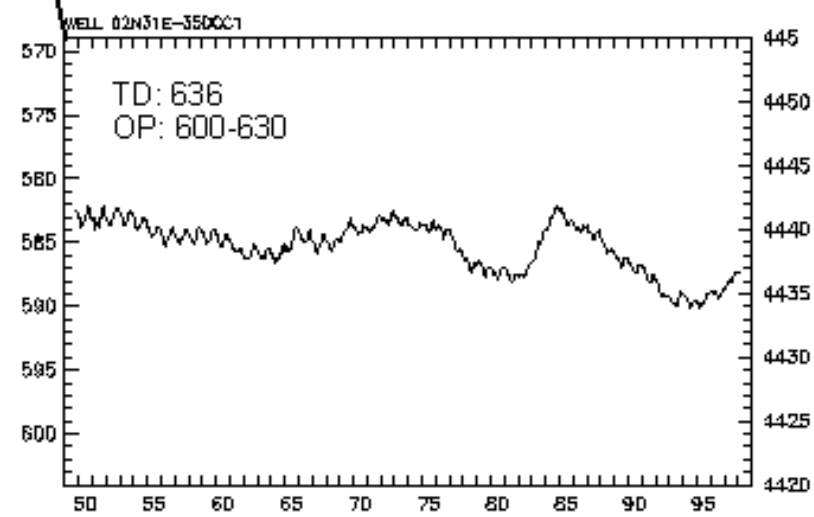
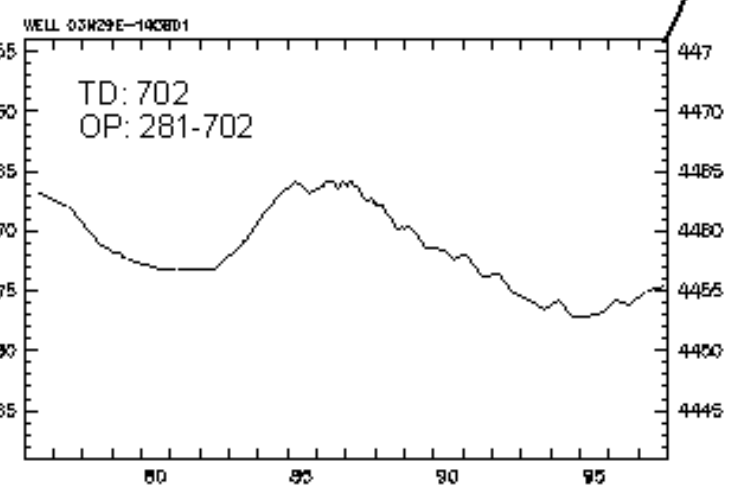
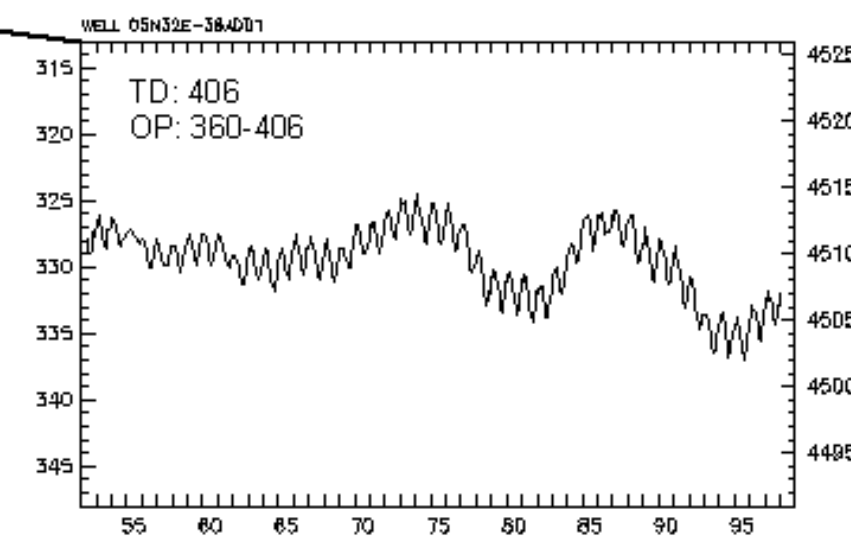
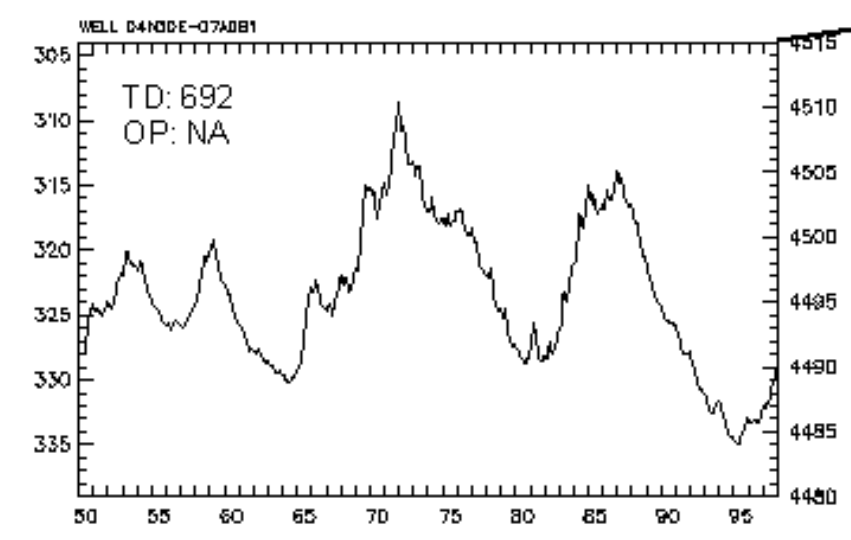
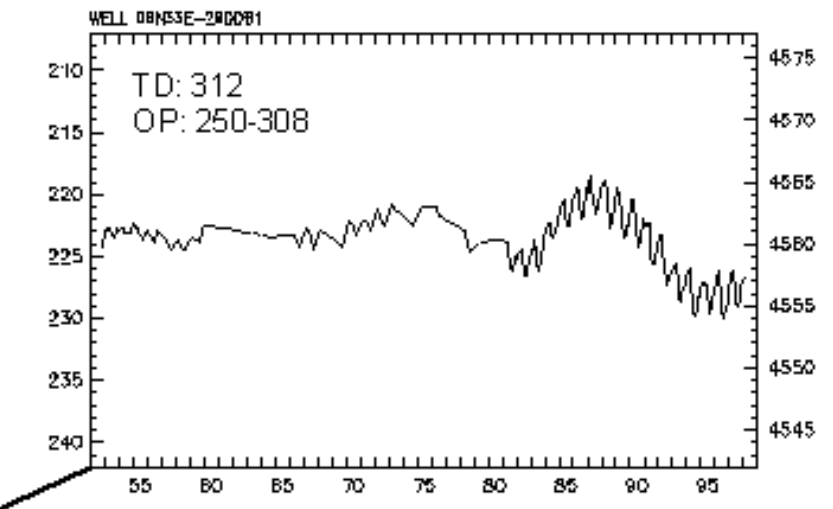
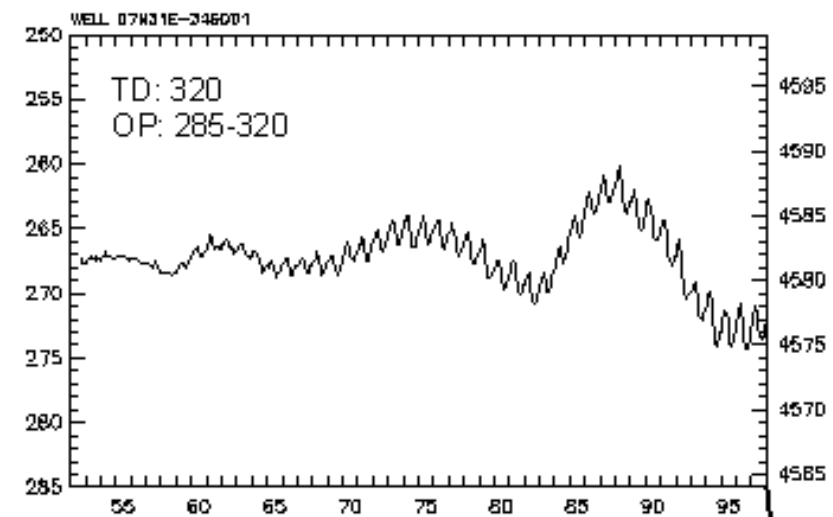
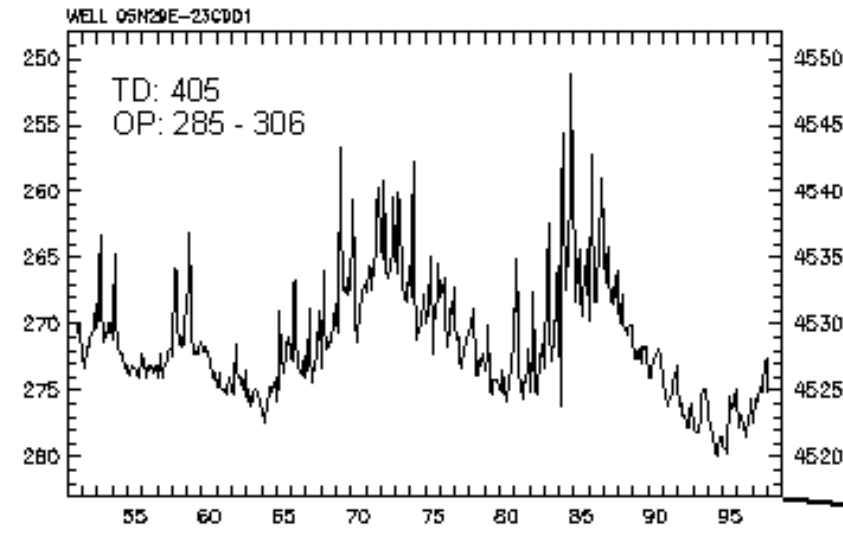
<b>ArcView File: IDWR499\pccommon\Esrp\AVMaps</b>	
<b>Project name</b>	<b>Description</b>
Esrpwells2.apr	This ArcView project files contains maps of well locations for the fall and spring 3-month intervals from 1980 to 2000.
	The shape files used to create this map are listed below.
<b>ArcView File: IDWR282\pccommon\Esrp\Shapefiles</b>	
<b>Shape file name</b>	<b>Description</b>
City.shp	Shape file of some of the larger cities throughout the eastern Snake River Plain.
Exptandr.shp	Shape file of the township and ranges included in the ESRP model.
Lakes.shp	Shape file of the lakes within the ESRP model boundary.
Rivers.shp	Shape file of the rivers within the ESRP model boundary.
Spring1980.shp	**Shape file with the wells for the spring 3-month interval in 1980.
Fall1980.shp	**Shape file with the wells for the fall 3-month interval in 1980.
	**There are shape files like this for each spring and fall 3-month interval for the years 1980 to 2000.

<b>Surfer File: IDWR499\pccommon\Esrp\Surfer</b>	
<b>Surfer file name</b>	<b>Description</b>
changSP80-85	Surfer change map for Spring 1980 to 1985
changSP85-90	Surfer change map for Spring 1985 to 1990
changSP90-95	Surfer change map for Spring 1990 to 1995
changSP95-00	Surfer change map for Spring 1995 to 2000
changSP80-00	Surfer change map for Spring 1980 to 2000
changmaptempl.lvl	Template for the color palate used in each Surfer change map
Sp80-85.grd	Blanked, kriged grid file used to create contour map for changSP80-85
Sp85-90.grd	Blanked, kriged grid file used to create contour map for changSP85-90
Sp90-95.grd	Blanked, kriged grid file used to create contour map for changSP90-95
Sp95-00.grd	Blanked, kriged grid file used to create contour map for changSP95-00
Sp80-00.grd	Blanked, kriged grid file used to create contour map for changSP80-00

## **APPENDIX IV**

### **HYDROGRAPHS OF CONTINUOUSLY MEASURED WELLS**

# EASTERN SNAKE RIVER PLAIN GROUND WATER HYDROGRAPHS



## LEGEND

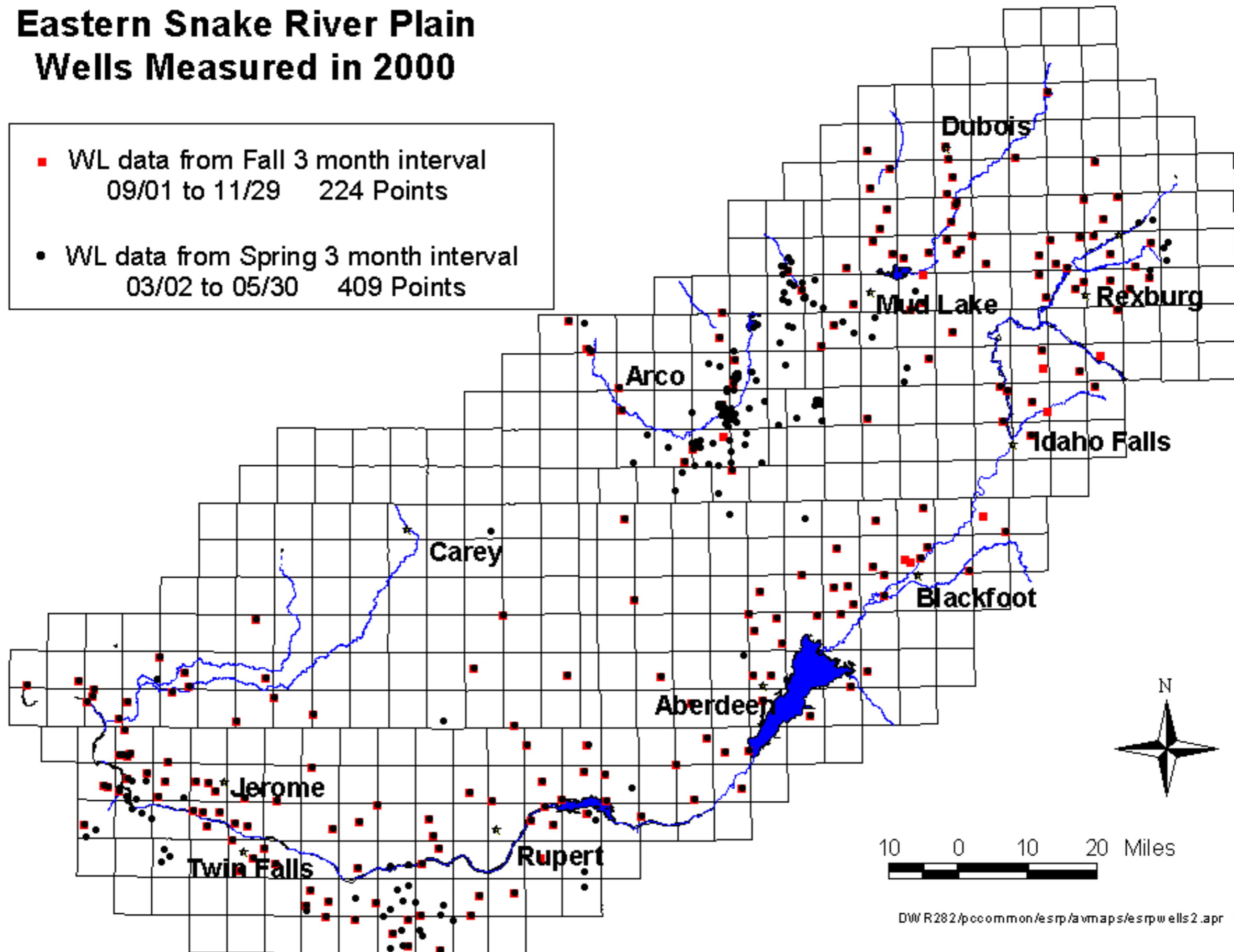
**TD: TOTAL DEPTH**  
**OP: INTERVAL AT WHICH THE WELL IS PERFORATED OR OPEN TO THE AQUIFER.**  
**LEFT SIDE: DEPTH TO WATER**  
**RIGHT SIDE: WATER ELEVATION**  
**BASE: YEAR**  
**ALL MEASUREMENTS IN FEET**  
**CURRENT TO SPRING 1998**

## **APPENDIX V**

**LOCATION OF AVAILABLE WATER LEVEL MEASUREMENT DATA  
YEARLY (1980-2000)  
SPRING AND FALL 3-MONTH INTERVALS**

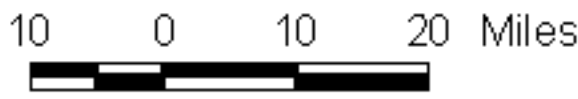
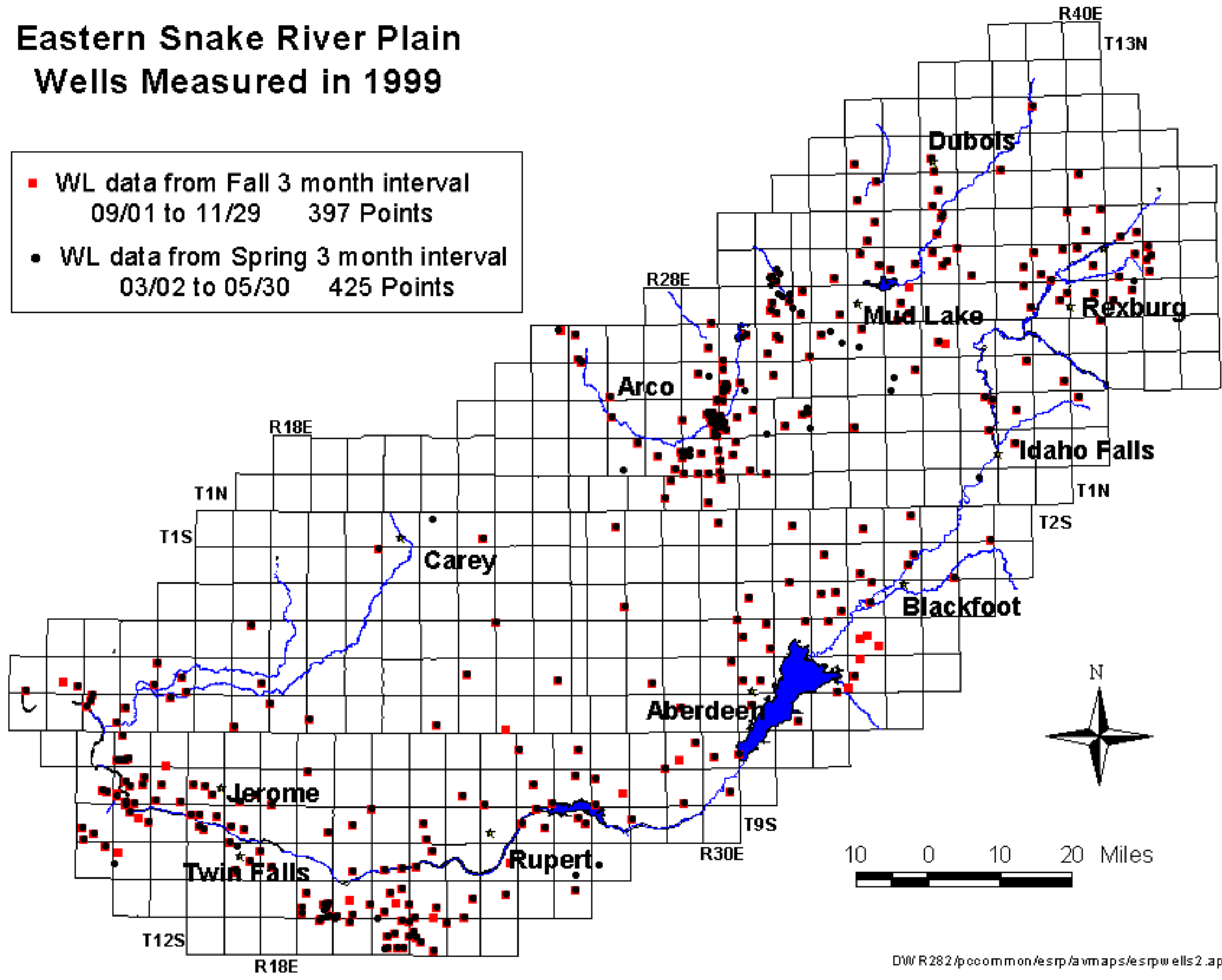
# Eastern Snake River Plain Wells Measured in 2000

- WL data from Fall 3 month interval  
09/01 to 11/29 224 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 409 Points



# Eastern Snake River Plain Wells Measured in 1999

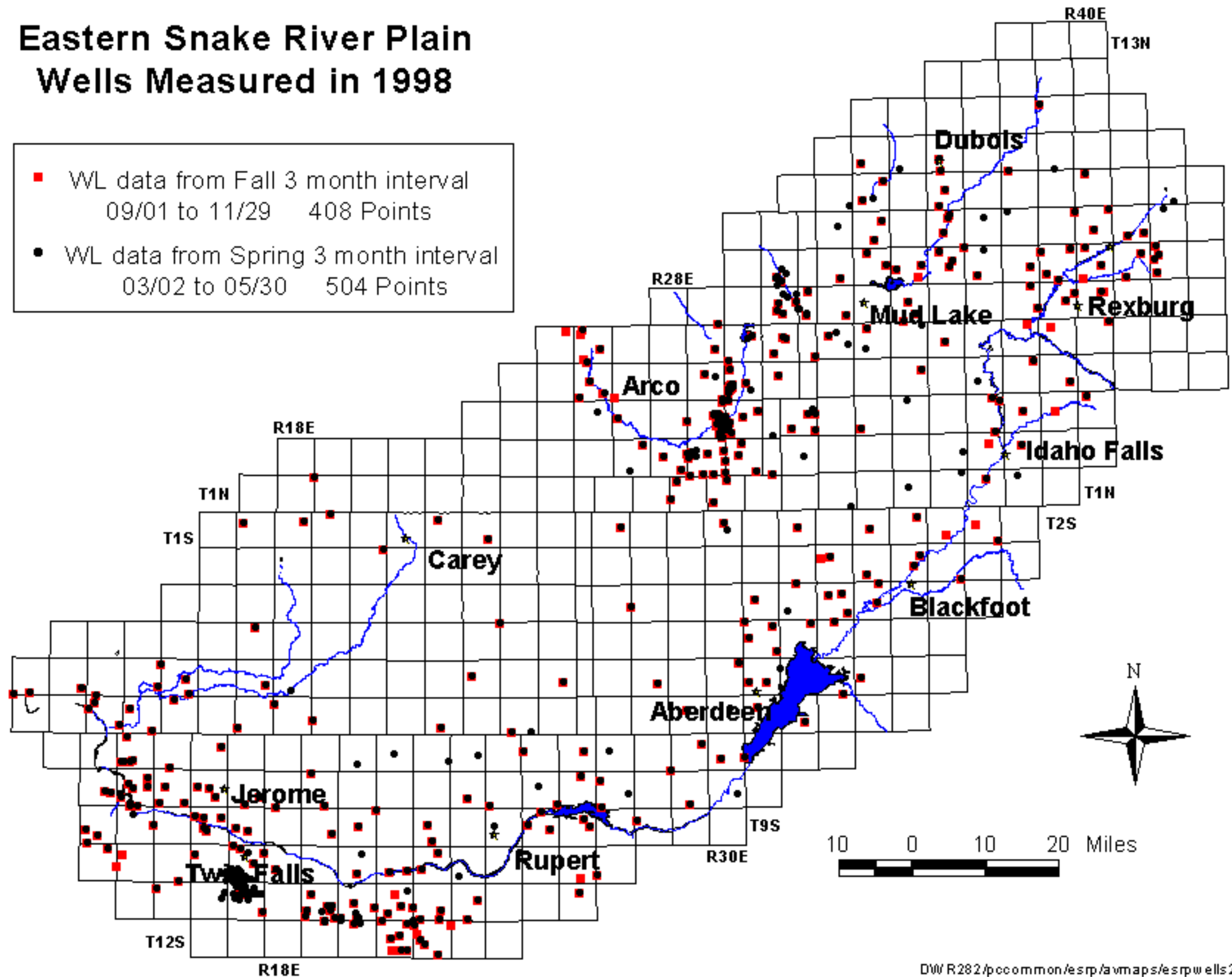
- WL data from Fall 3 month interval  
09/01 to 11/29 397 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 425 Points





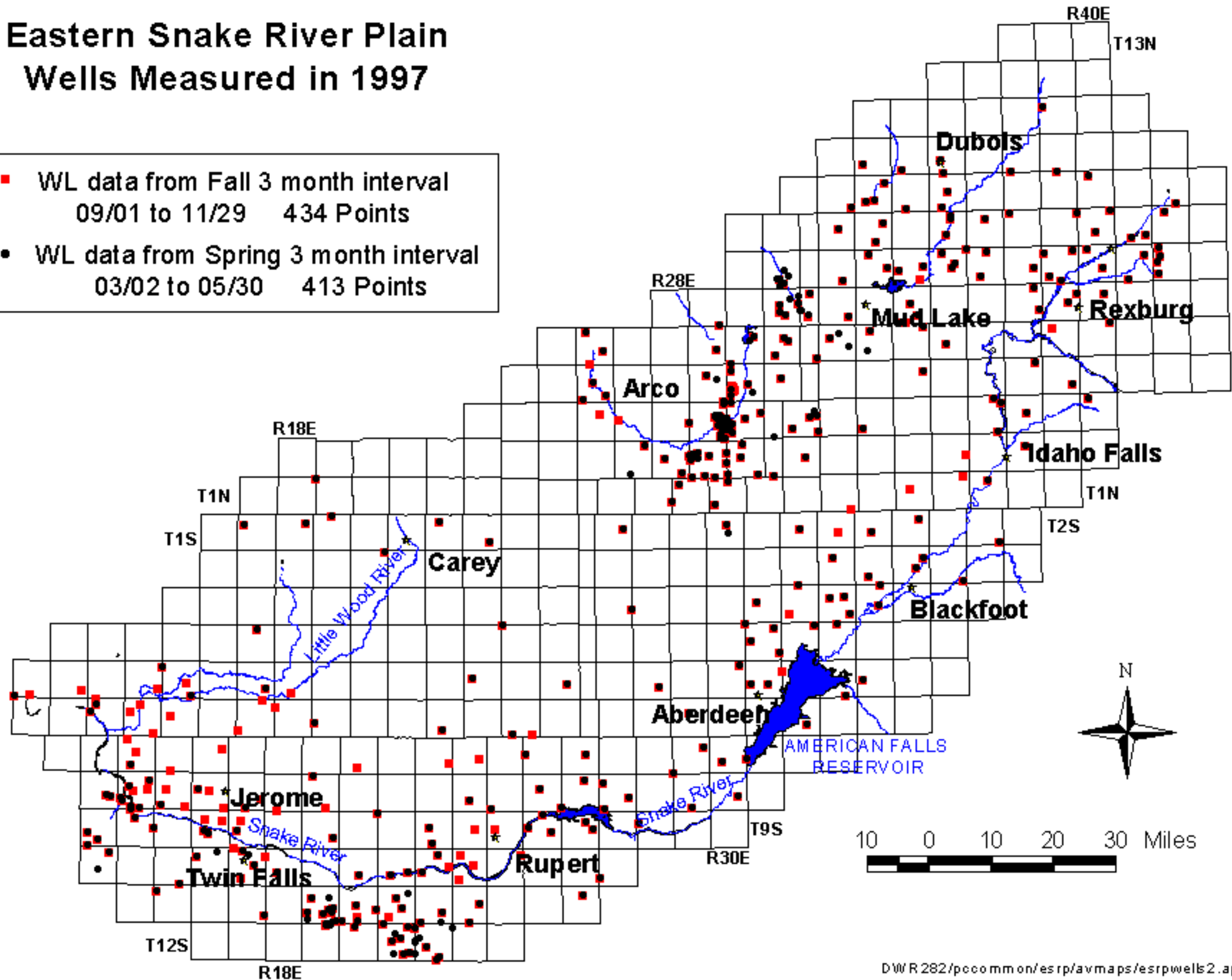
# Eastern Snake River Plain Wells Measured in 1998

- WL data from Fall 3 month interval  
09/01 to 11/29 408 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 504 Points



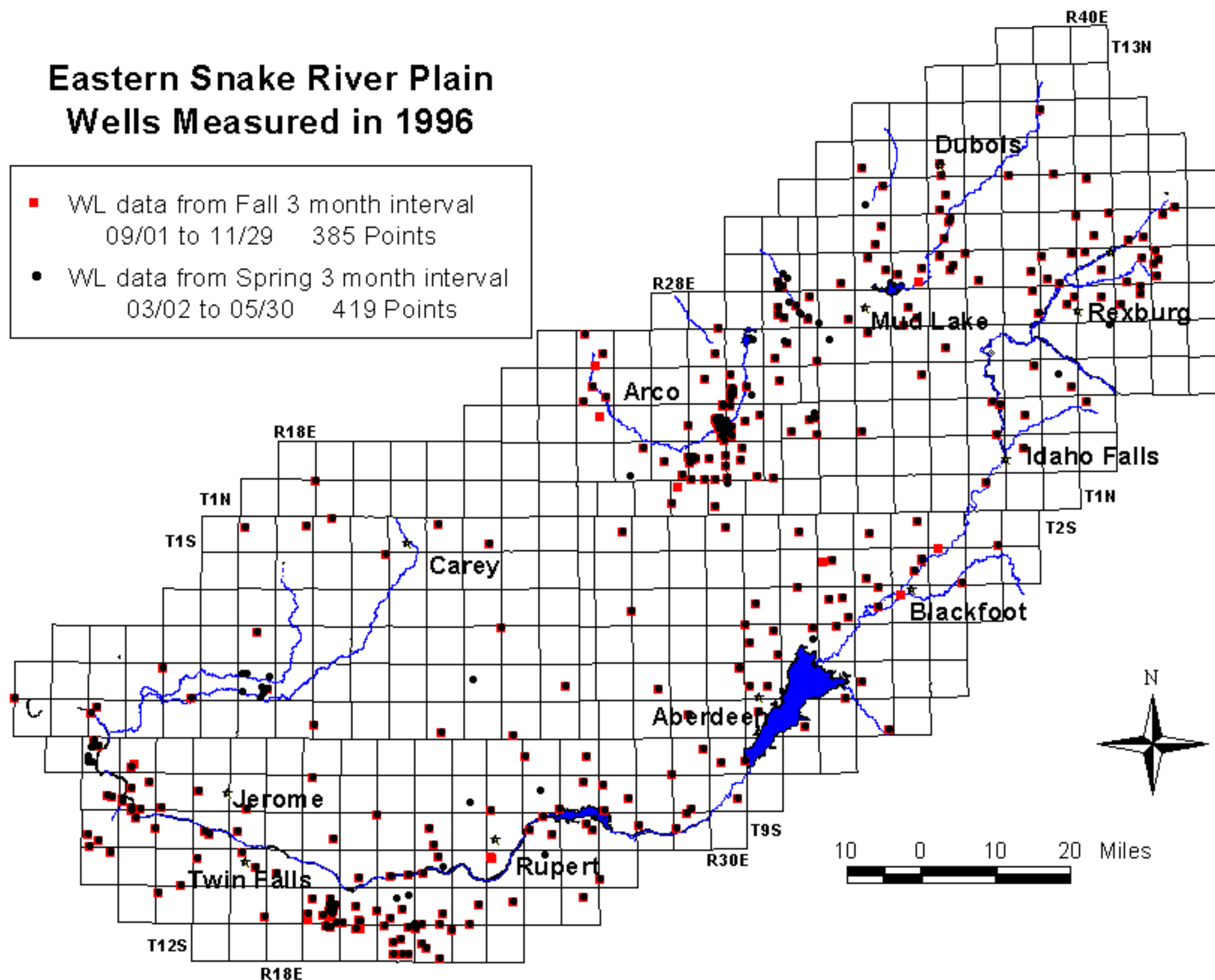
# Eastern Snake River Plain Wells Measured in 1997

- WL data from Fall 3 month interval  
09/01 to 11/29 434 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 413 Points



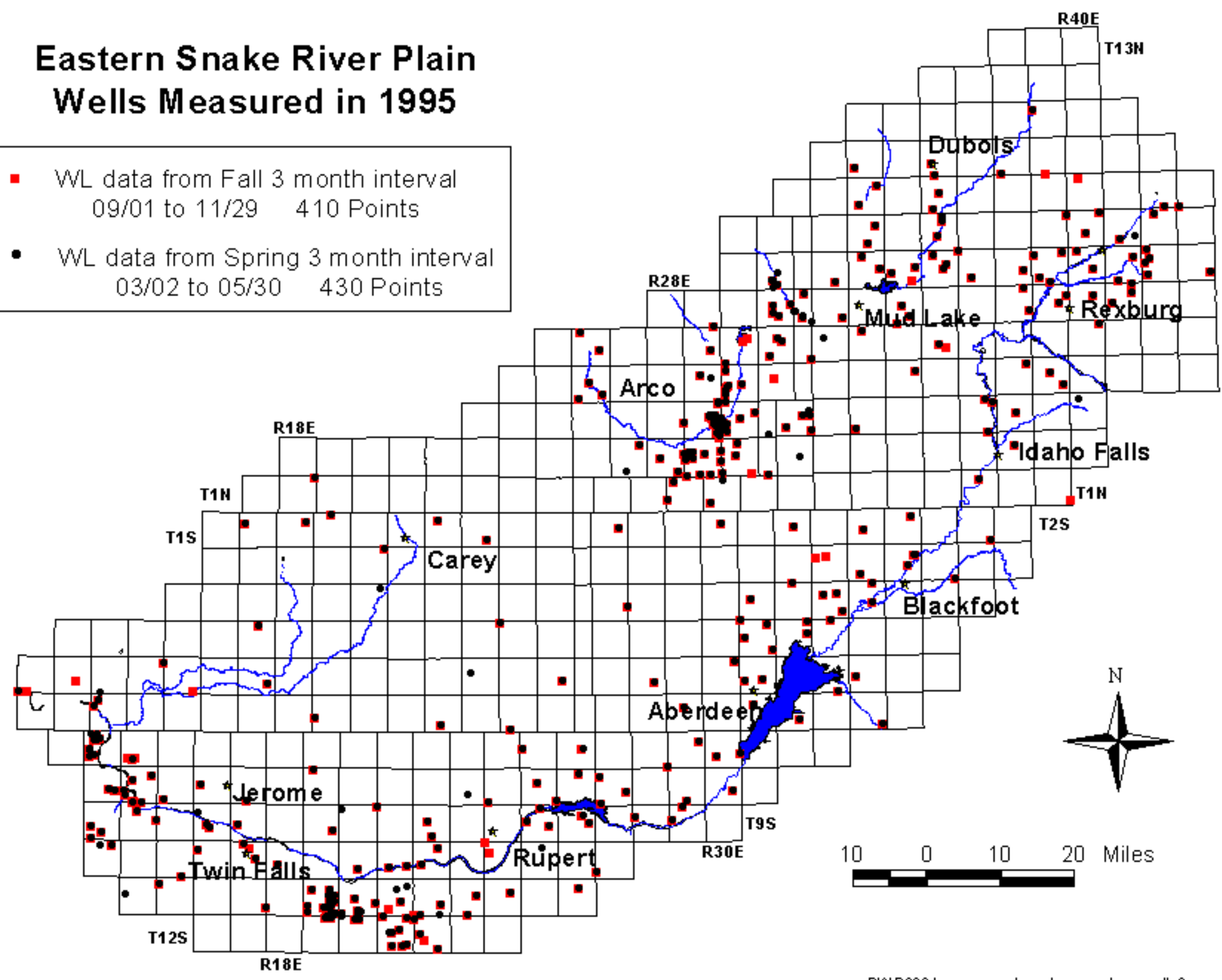
# Eastern Snake River Plain Wells Measured in 1996

- WL data from Fall 3 month interval  
09/01 to 11/29 385 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 419 Points



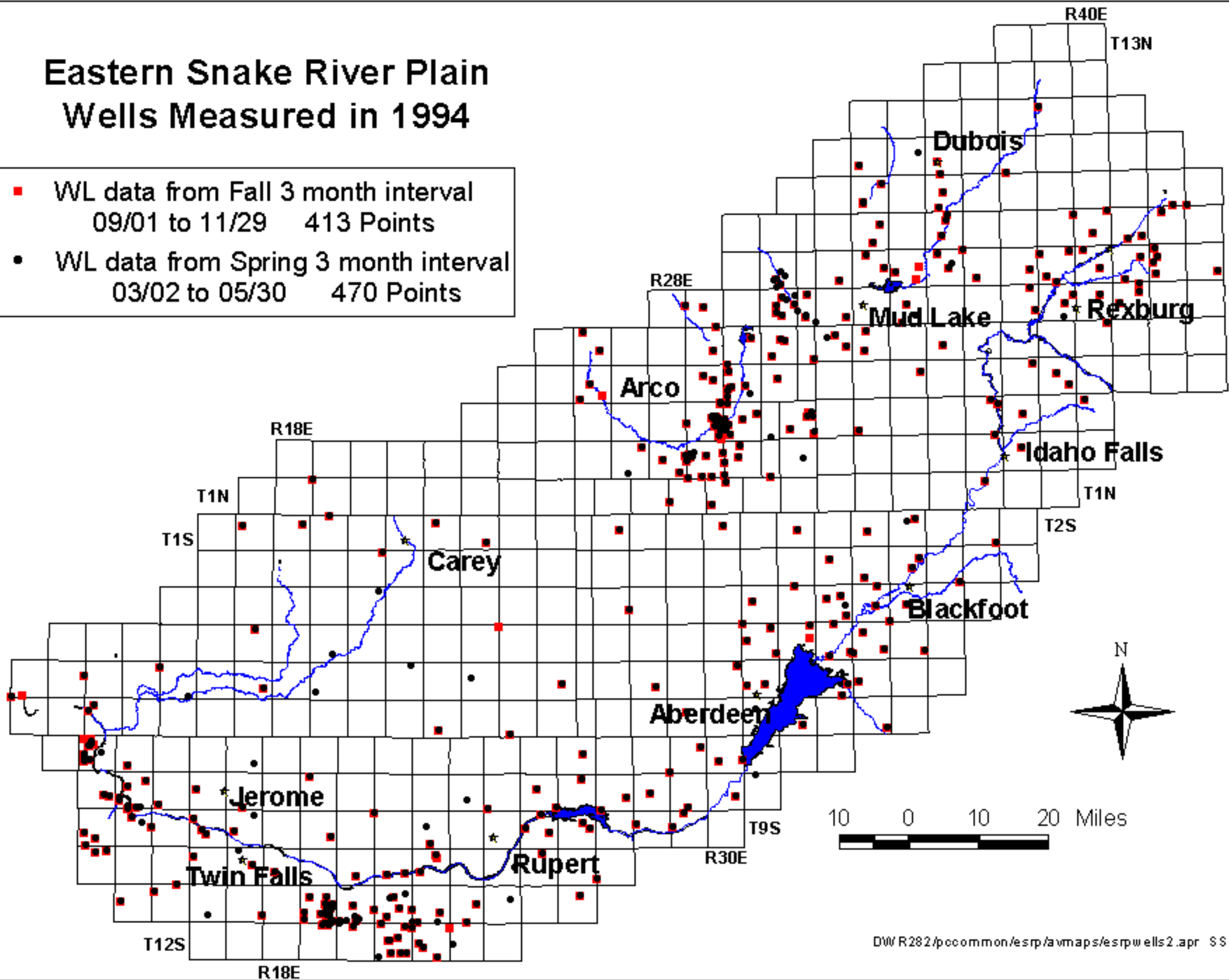
# Eastern Snake River Plain Wells Measured in 1995

- WL data from Fall 3 month interval  
09/01 to 11/29 410 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 430 Points



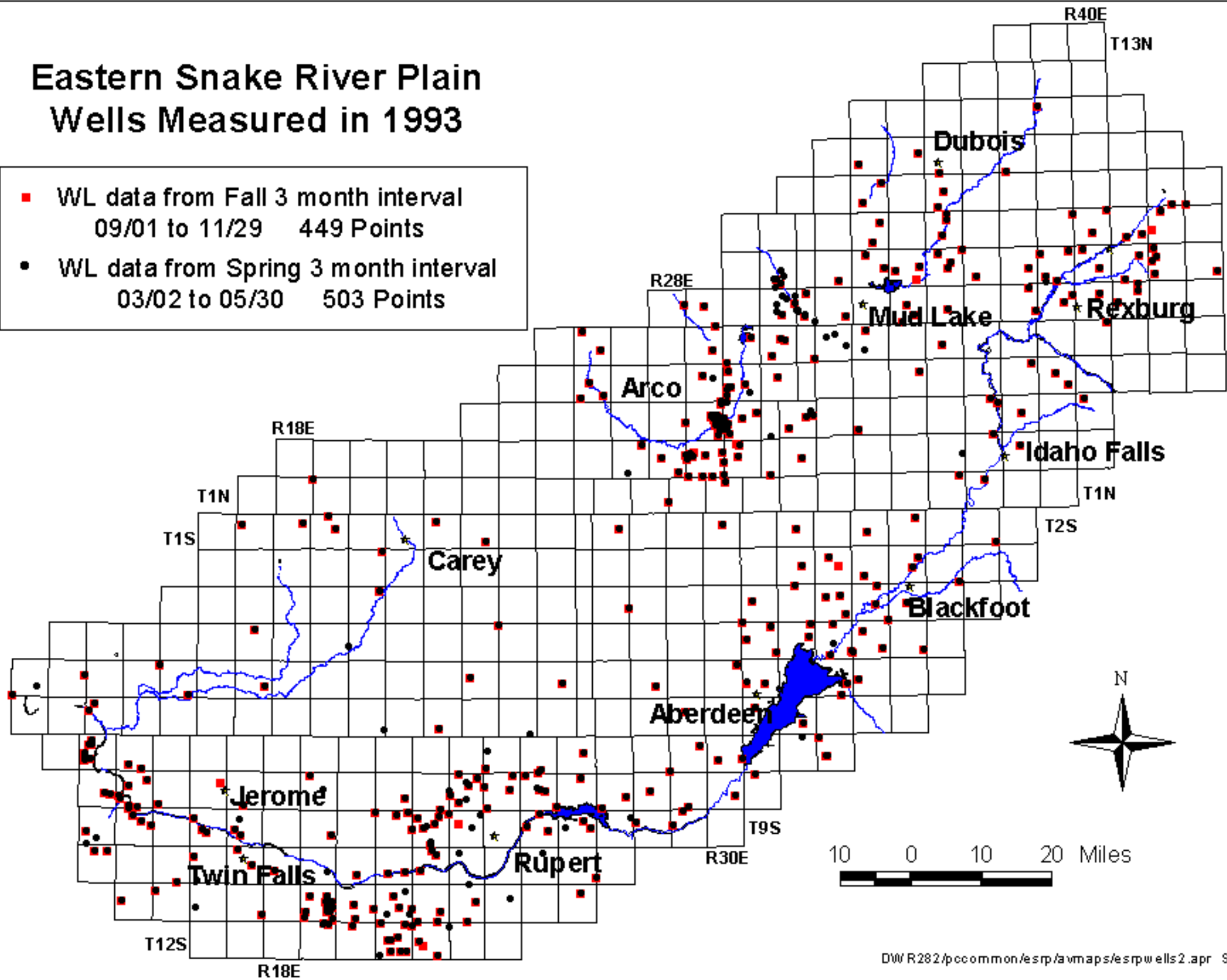
# Eastern Snake River Plain Wells Measured in 1994

- WL data from Fall 3 month interval  
09/01 to 11/29 413 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 470 Points



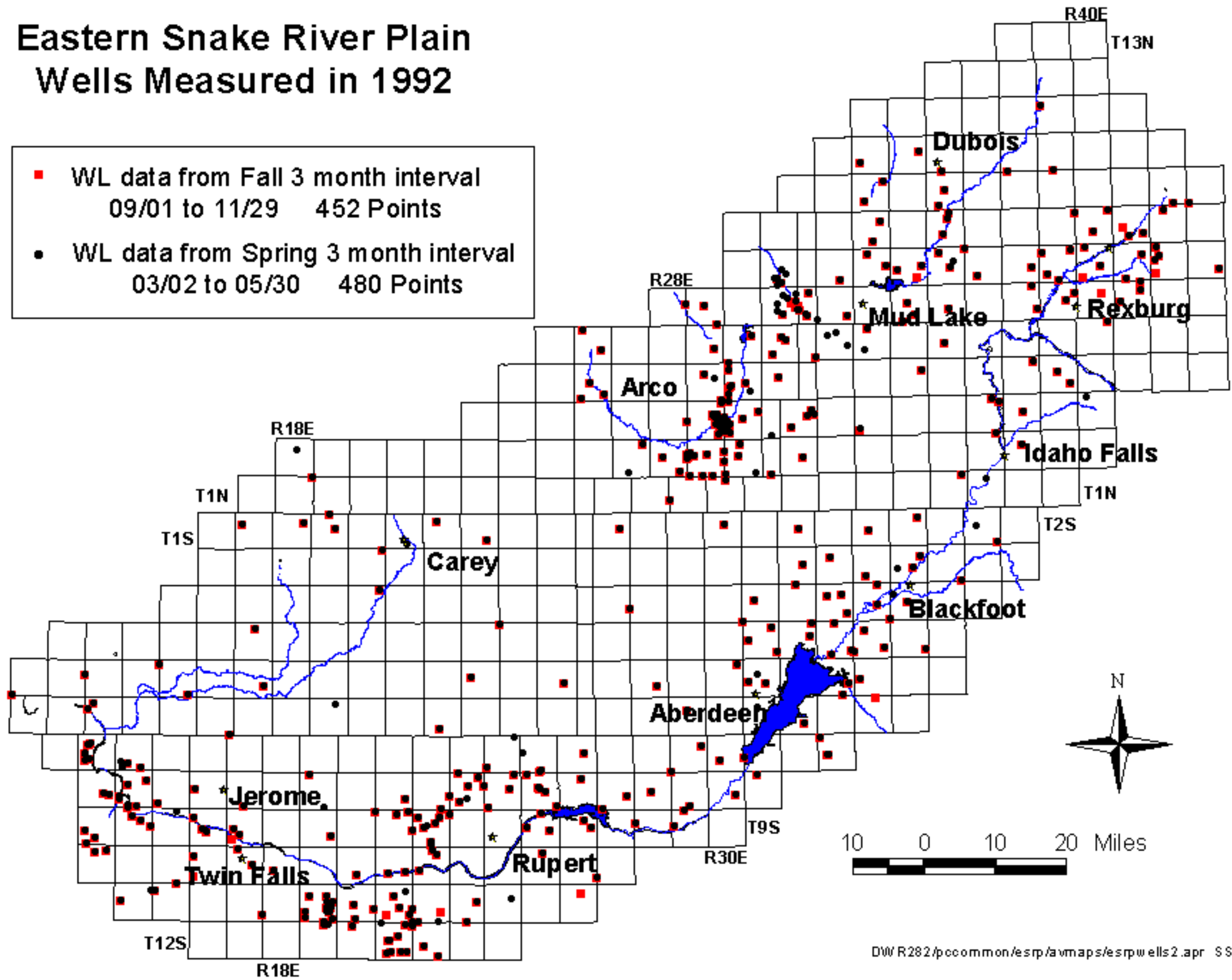
# Eastern Snake River Plain Wells Measured in 1993

- WL data from Fall 3 month interval  
09/01 to 11/29 449 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 503 Points



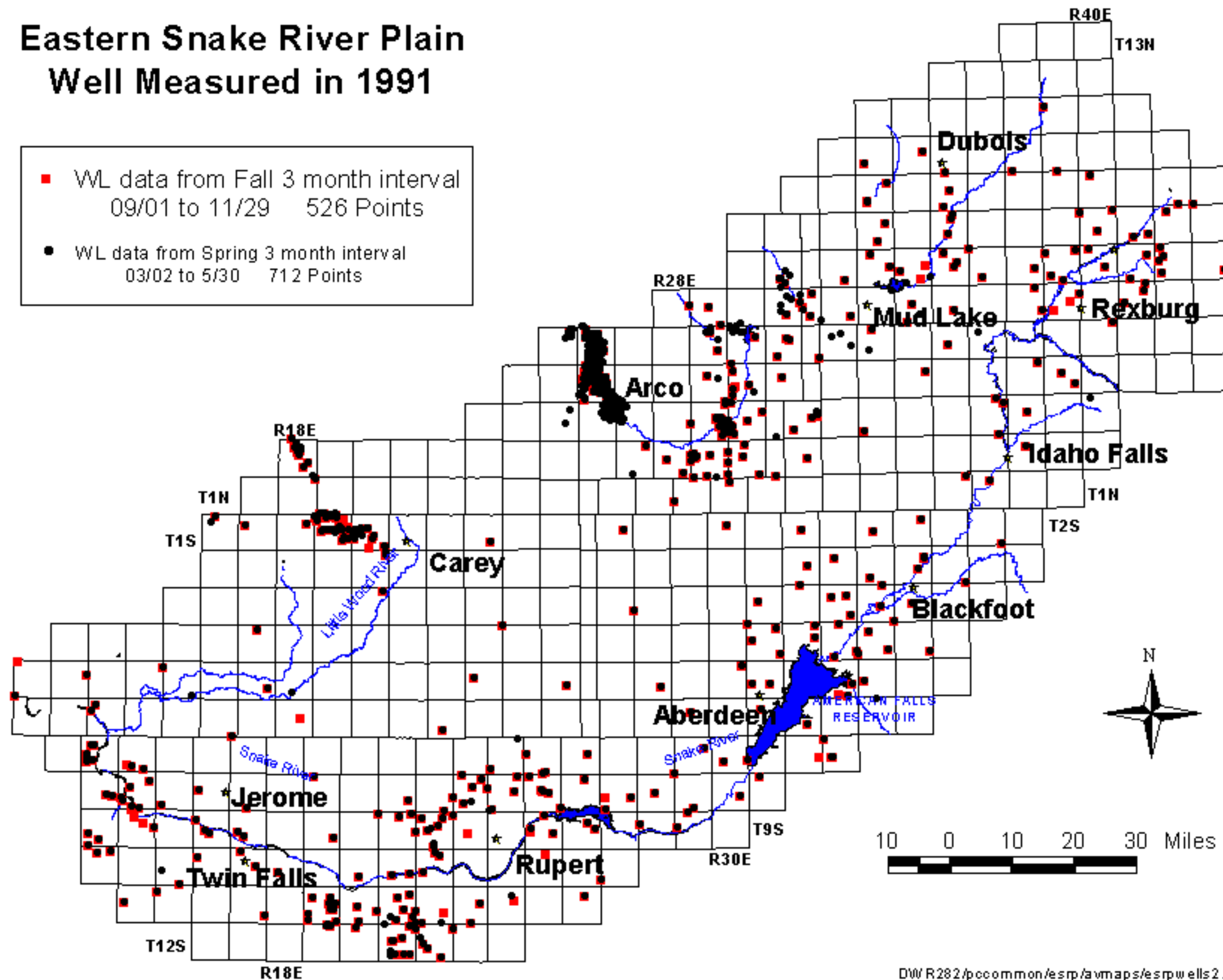
# Eastern Snake River Plain Wells Measured in 1992

- WL data from Fall 3 month interval  
09/01 to 11/29 452 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 480 Points



# Eastern Snake River Plain Well Measured in 1991

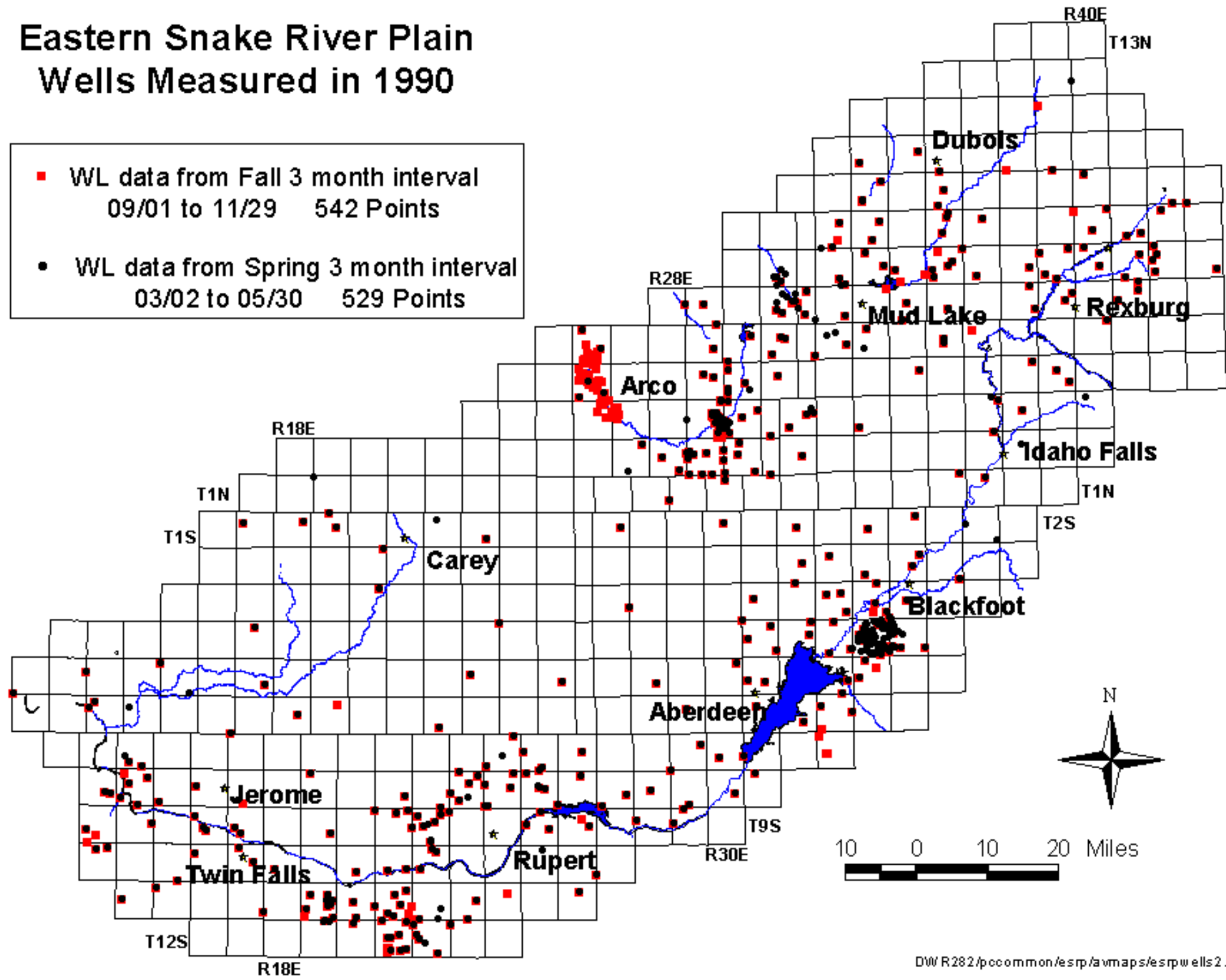
- WL data from Fall 3 month interval  
09/01 to 11/29 526 Points
- WL data from Spring 3 month interval  
03/02 to 5/30 712 Points





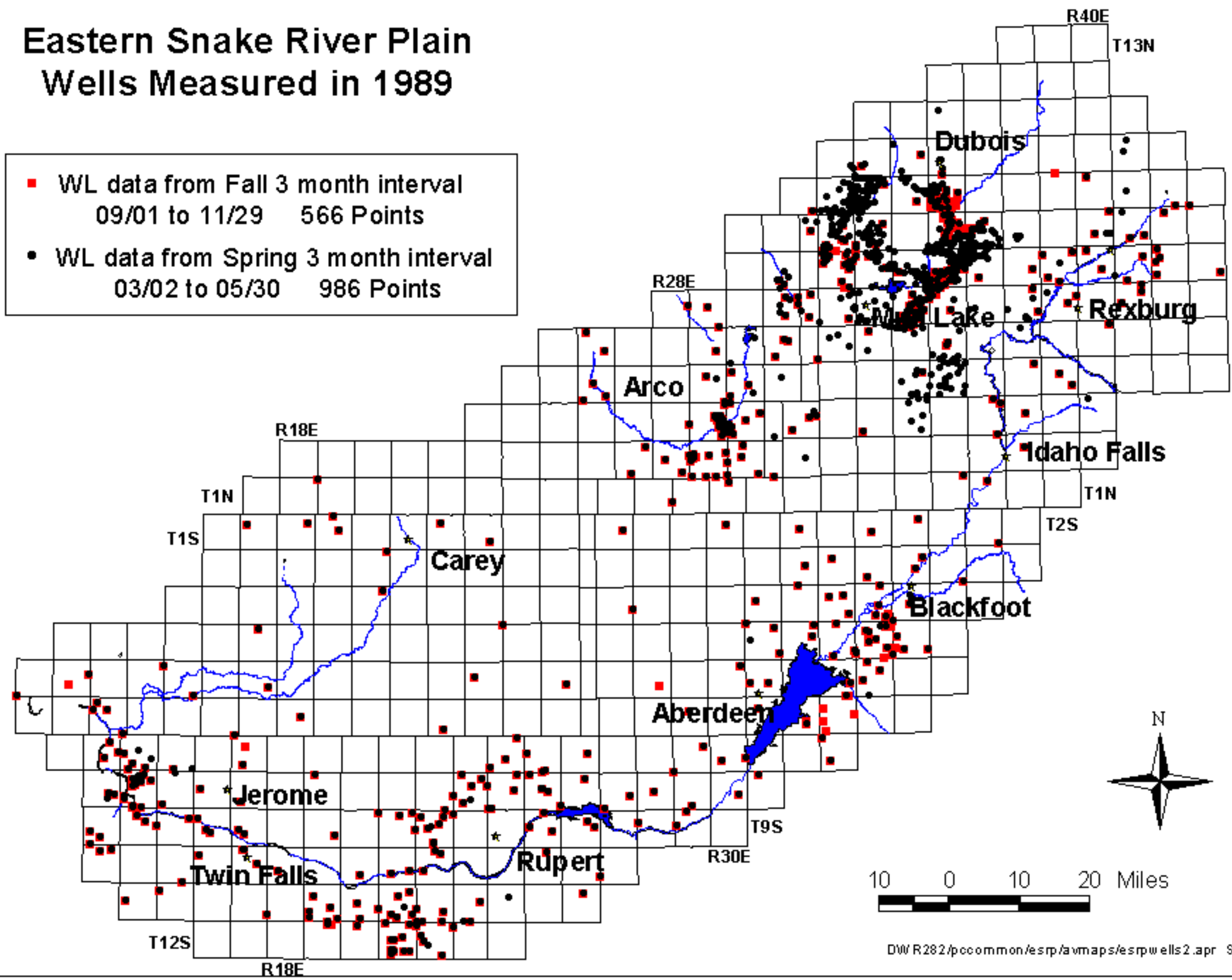
# Eastern Snake River Plain Wells Measured in 1990

- WL data from Fall 3 month interval  
09/01 to 11/29 542 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 529 Points



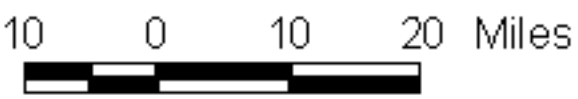
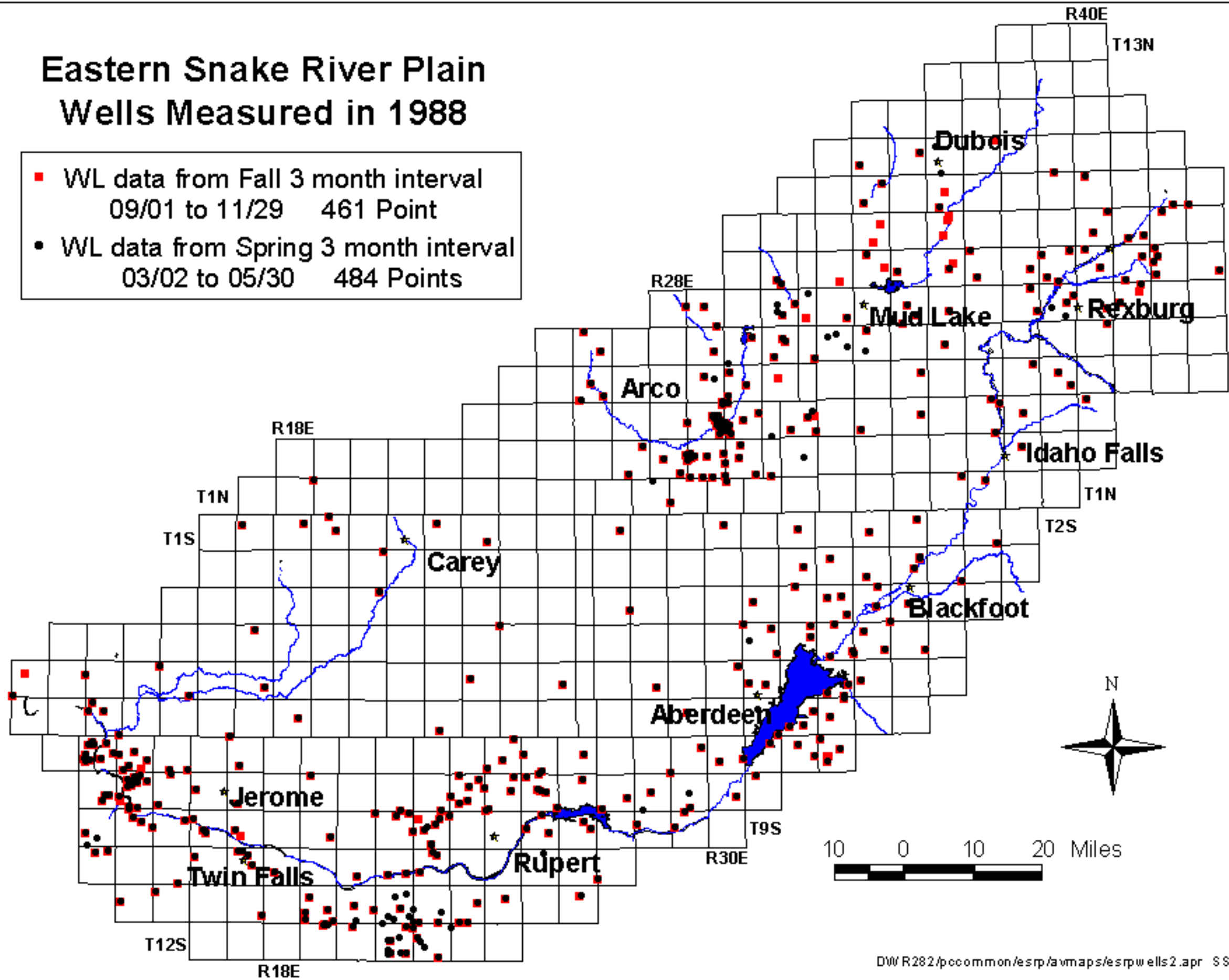
# Eastern Snake River Plain Wells Measured in 1989

- WL data from Fall 3 month interval  
09/01 to 11/29 566 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 986 Points



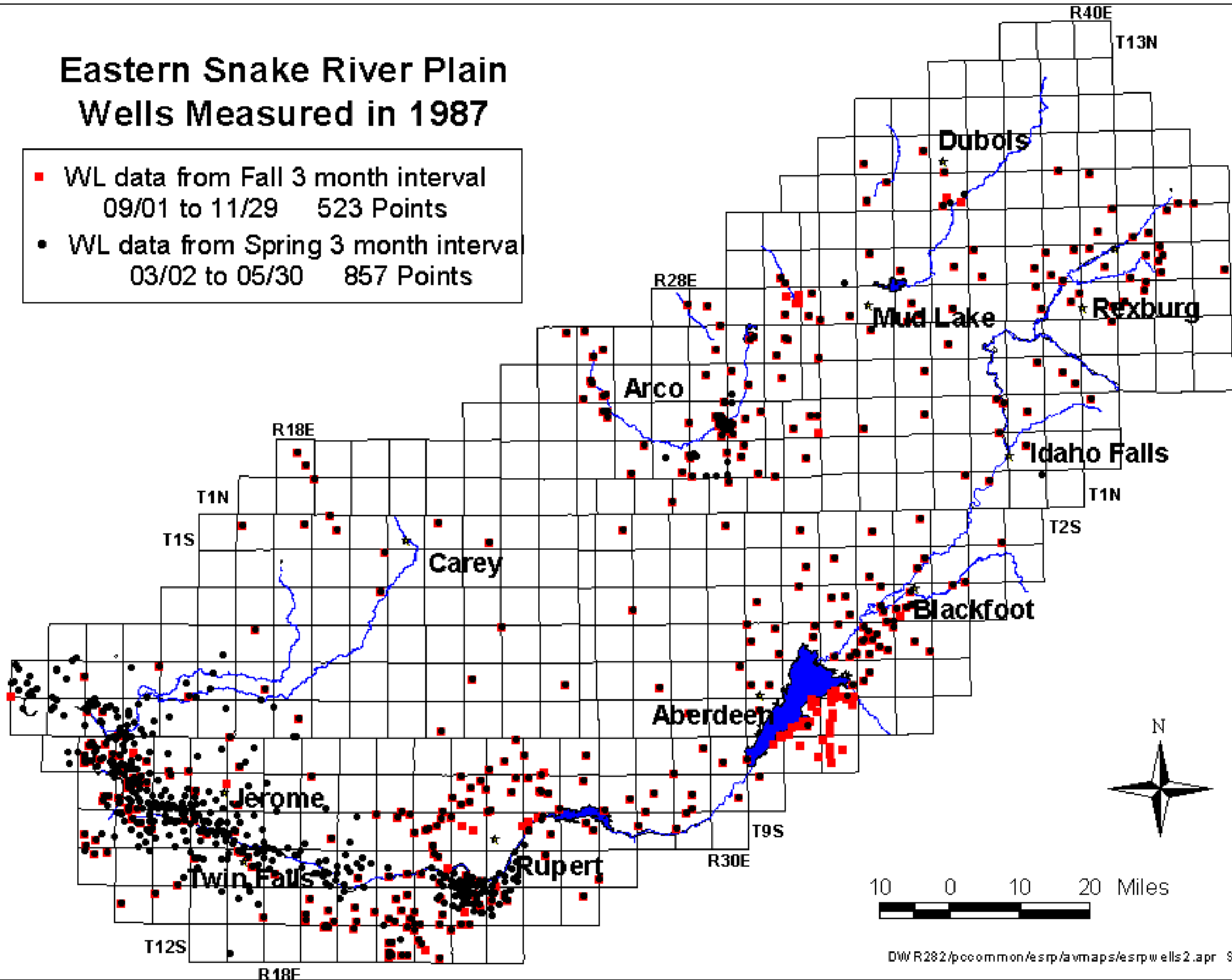
# Eastern Snake River Plain Wells Measured in 1988

- WL data from Fall 3 month interval  
09/01 to 11/29 461 Point
- WL data from Spring 3 month interval  
03/02 to 05/30 484 Points



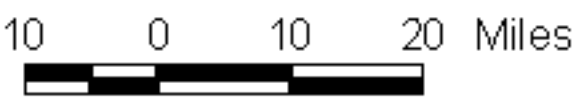
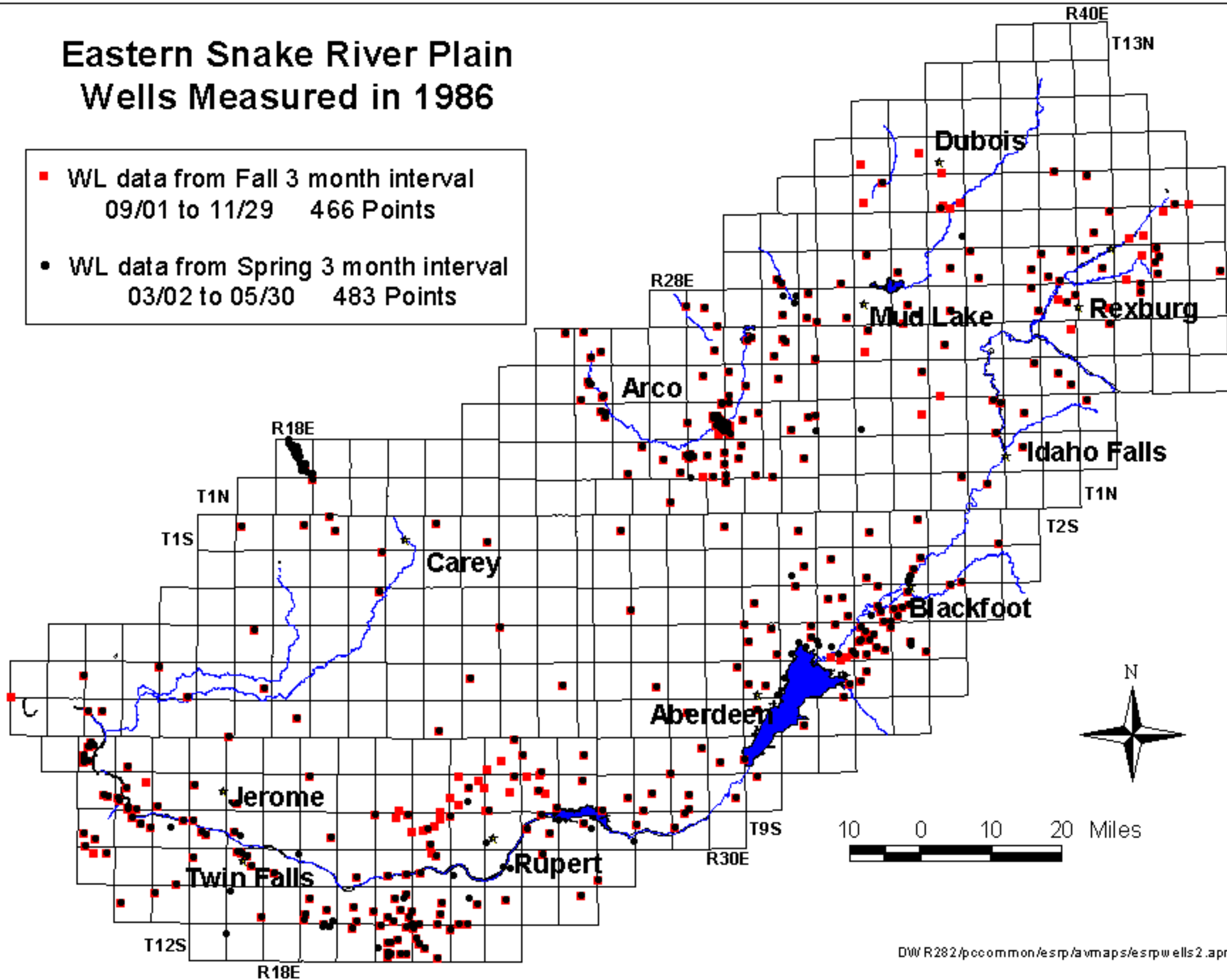
# Eastern Snake River Plain Wells Measured in 1987

- WL data from Fall 3 month interval  
09/01 to 11/29 523 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 857 Points



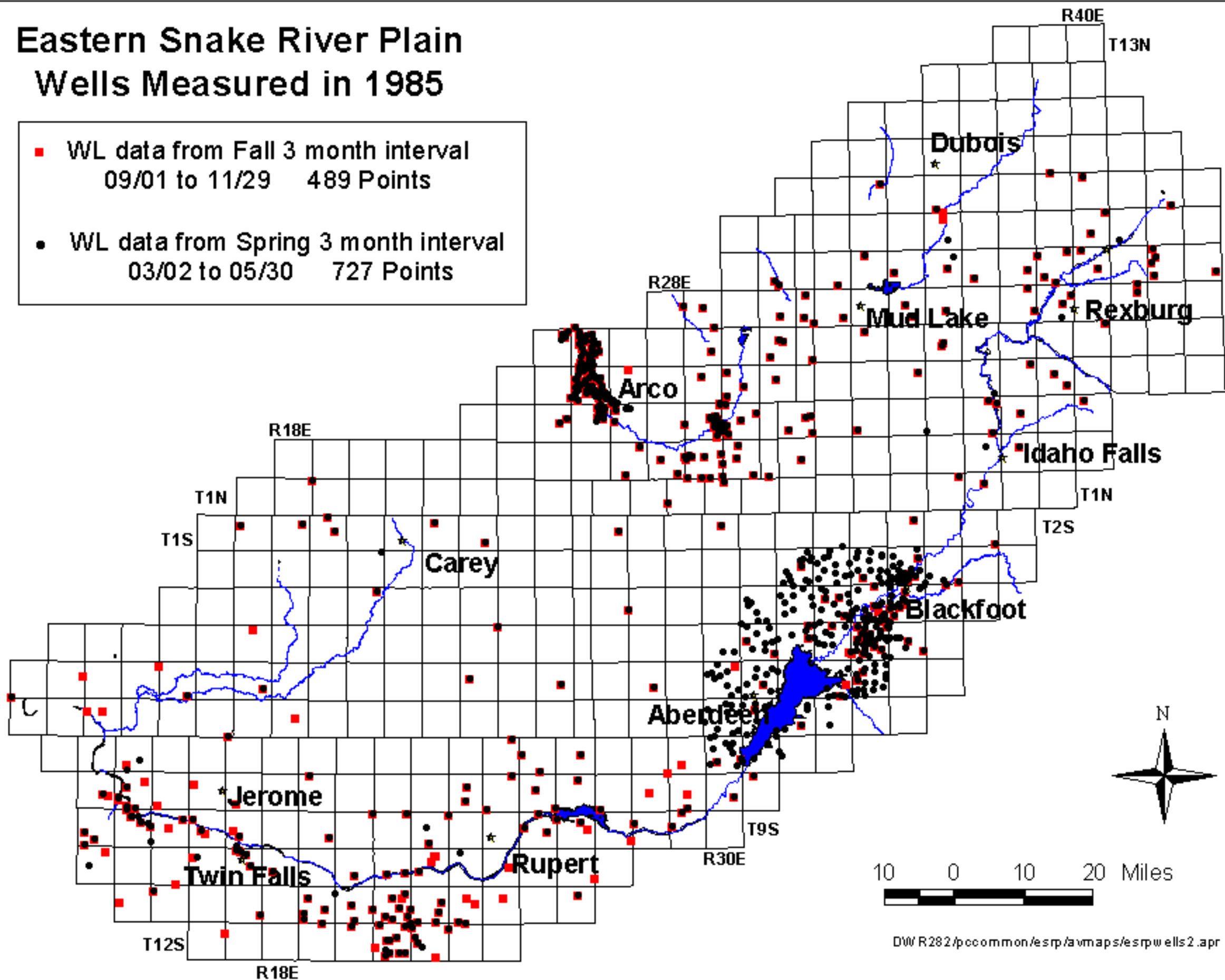
# Eastern Snake River Plain Wells Measured in 1986

- WL data from Fall 3 month interval  
09/01 to 11/29 466 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 483 Points



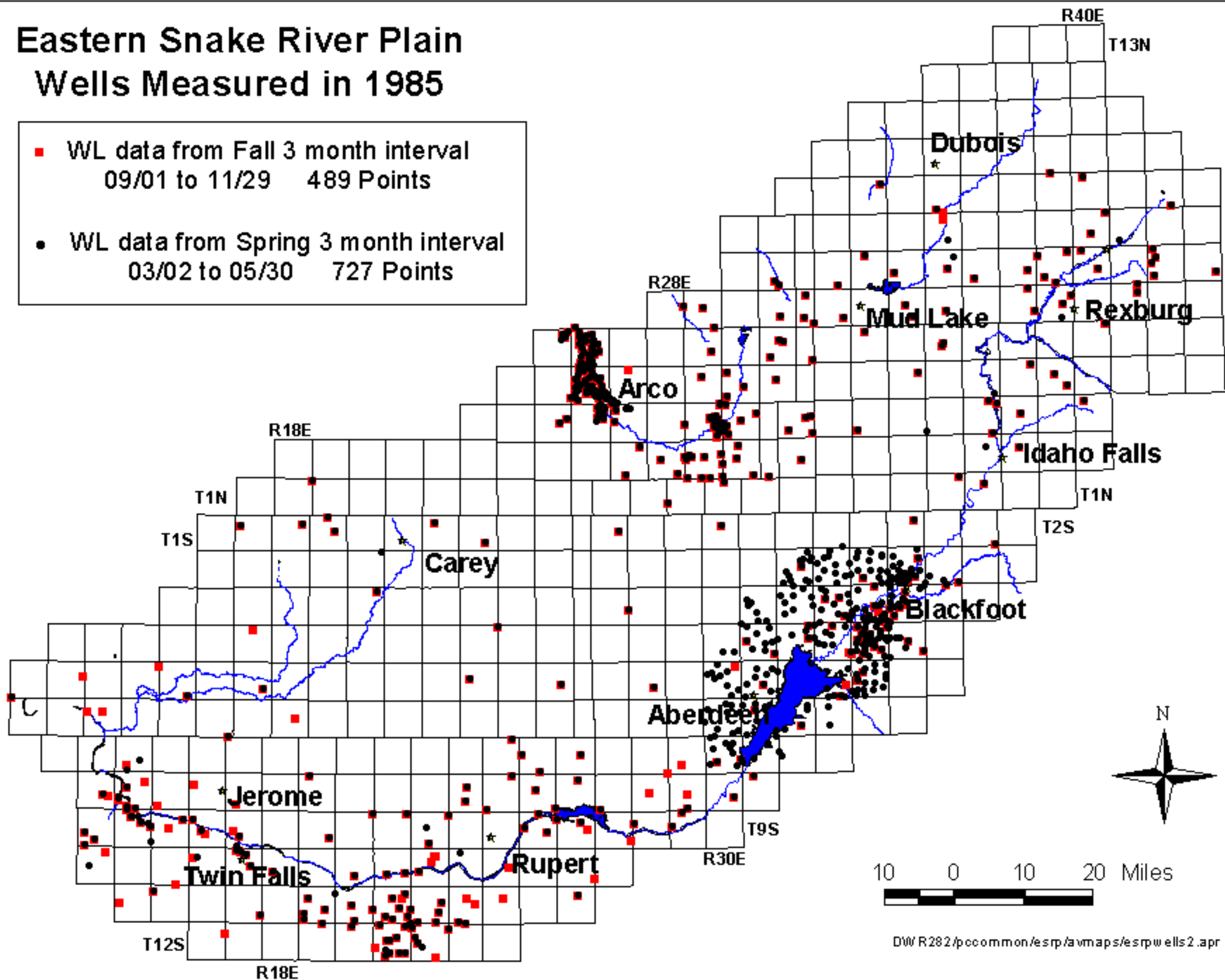
# Eastern Snake River Plain Wells Measured in 1985

- WL data from Fall 3 month interval  
09/01 to 11/29 489 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 727 Points



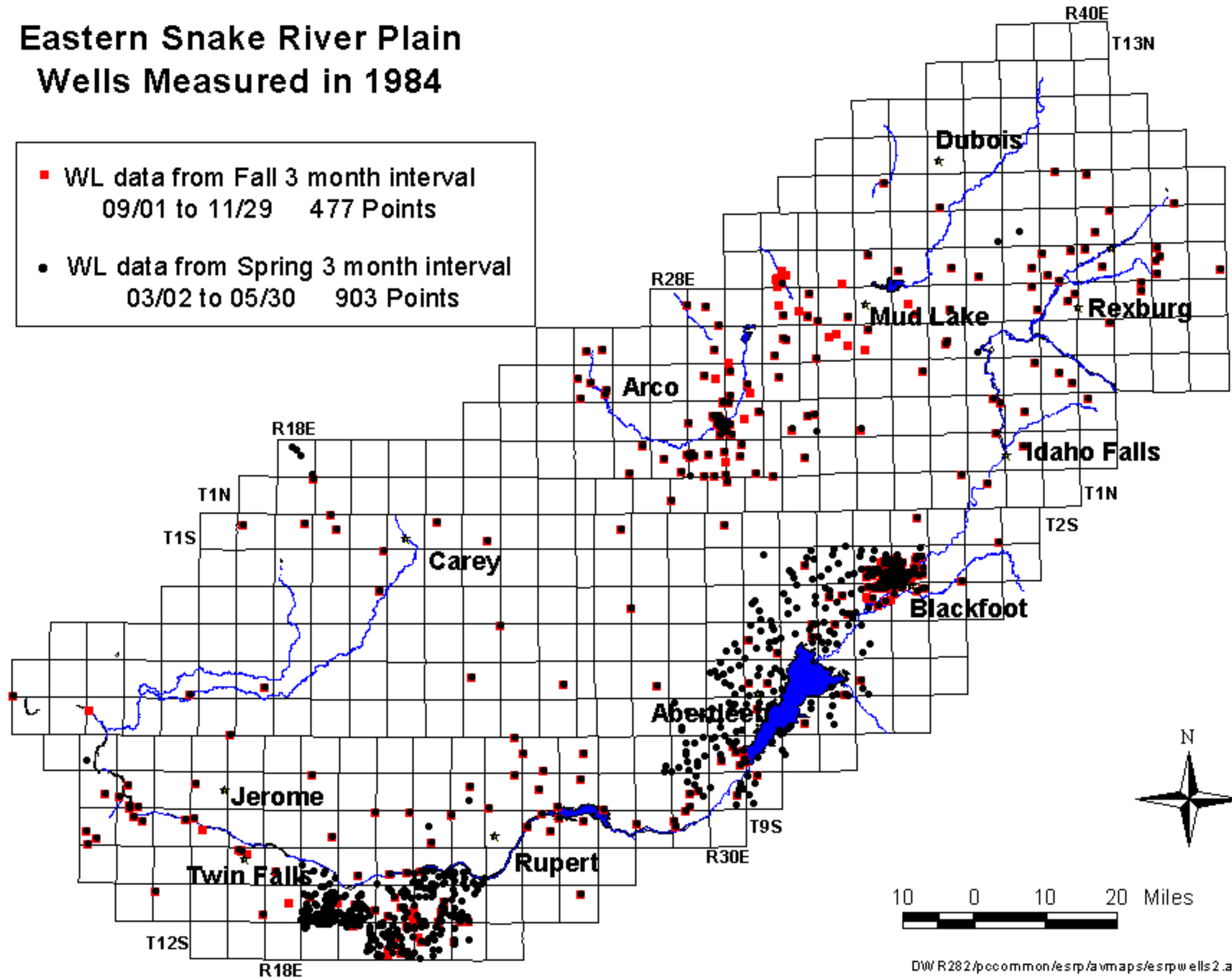
# Eastern Snake River Plain Wells Measured in 1985

- WL data from Fall 3 month interval  
09/01 to 11/29 489 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 727 Points



# Eastern Snake River Plain Wells Measured in 1984

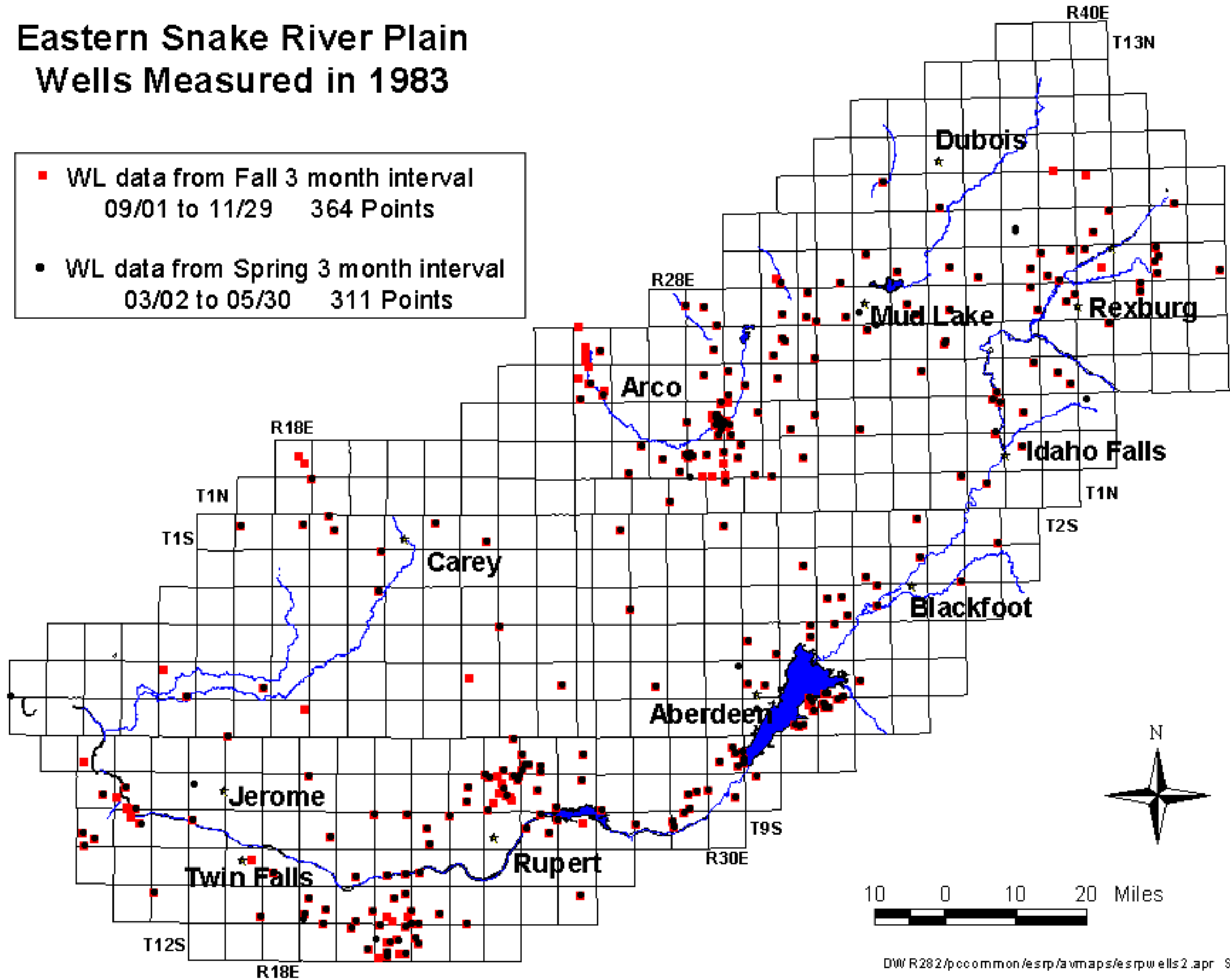
- WL data from Fall 3 month interval  
09/01 to 11/29 477 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 903 Points





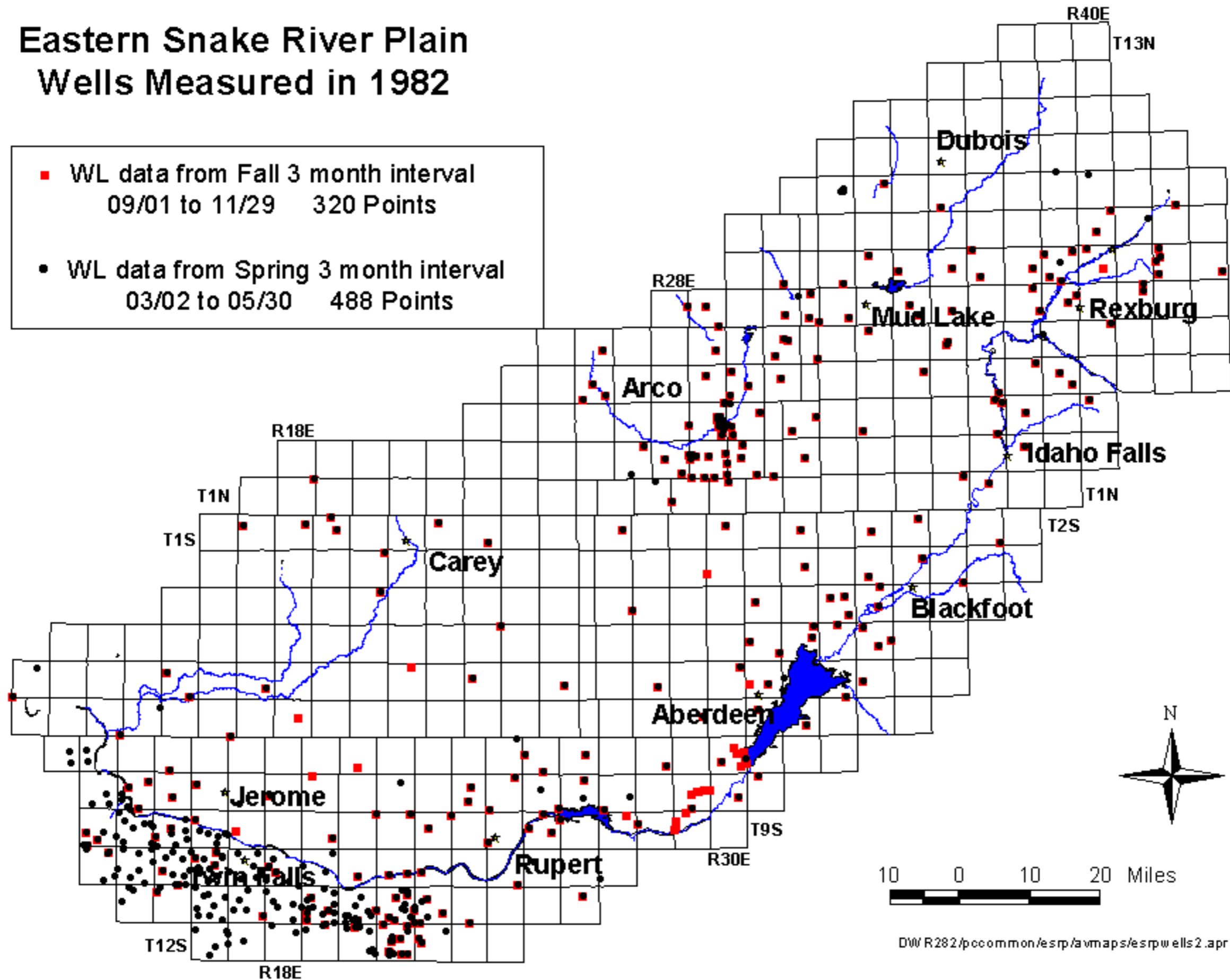
# Eastern Snake River Plain Wells Measured in 1983

- WL data from Fall 3 month interval  
09/01 to 11/29 364 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 311 Points



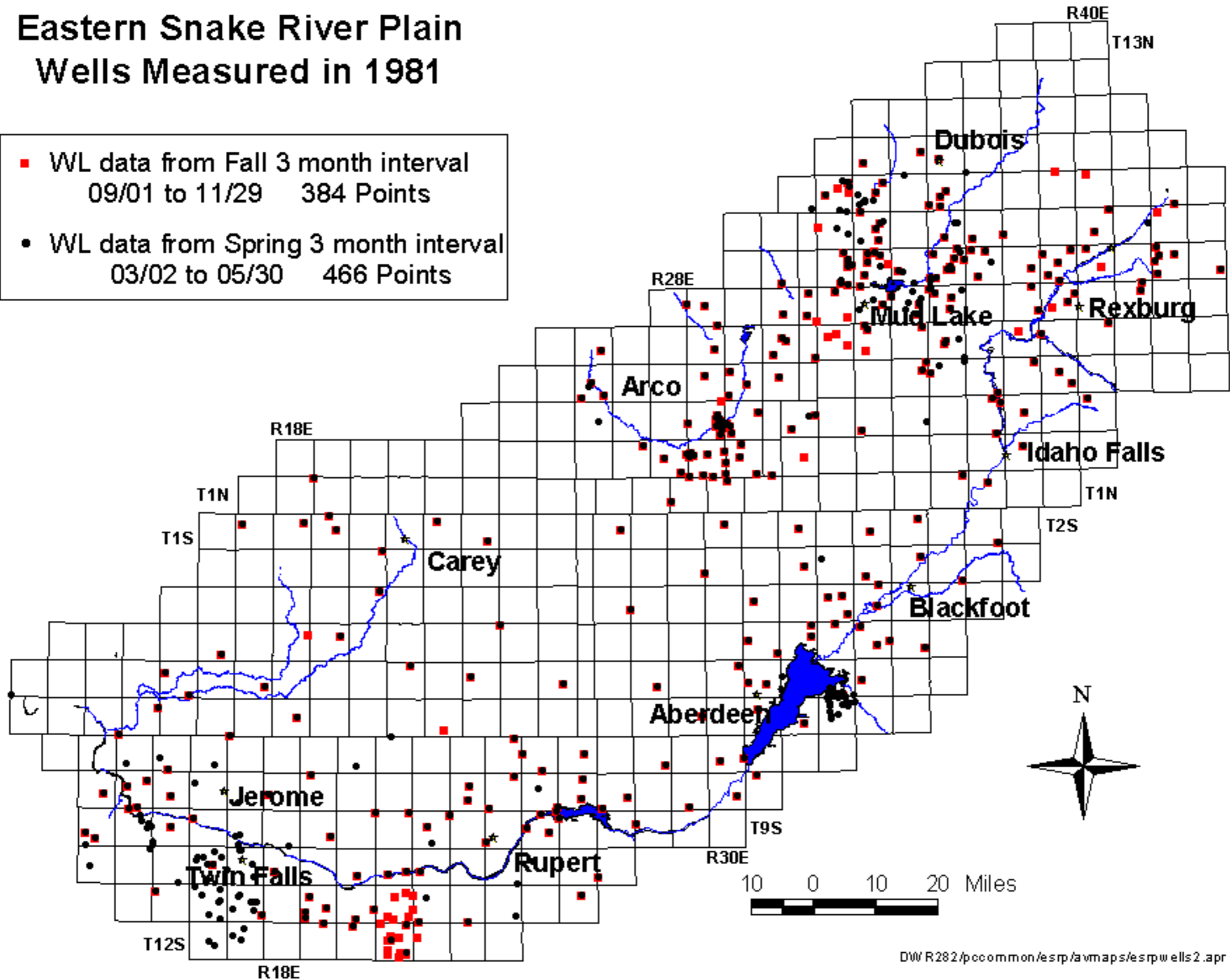
# Eastern Snake River Plain Wells Measured in 1982

- WL data from Fall 3 month interval  
09/01 to 11/29 320 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 488 Points



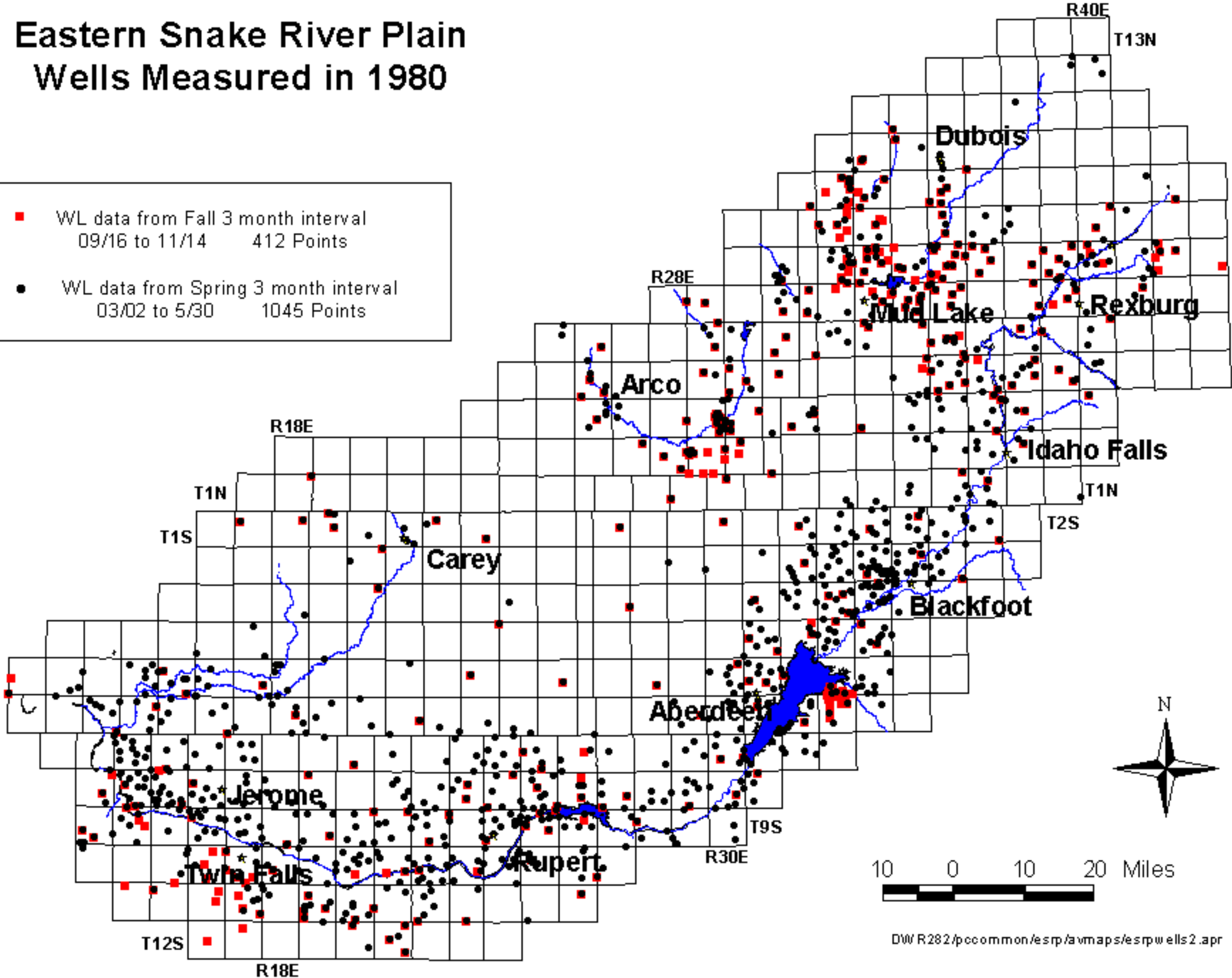
# Eastern Snake River Plain Wells Measured in 1981

- WL data from Fall 3 month interval  
09/01 to 11/29 384 Points
- WL data from Spring 3 month interval  
03/02 to 05/30 466 Points



# Eastern Snake River Plain Wells Measured in 1980

- WL data from Fall 3 month interval  
09/16 to 11/14 412 Points
- WL data from Spring 3 month interval  
03/02 to 5/30 1045 Points



## **APPENDIX VI**

### **WATER LEVEL CHANGE MAPS SPRING AND FALL**

1980-1985

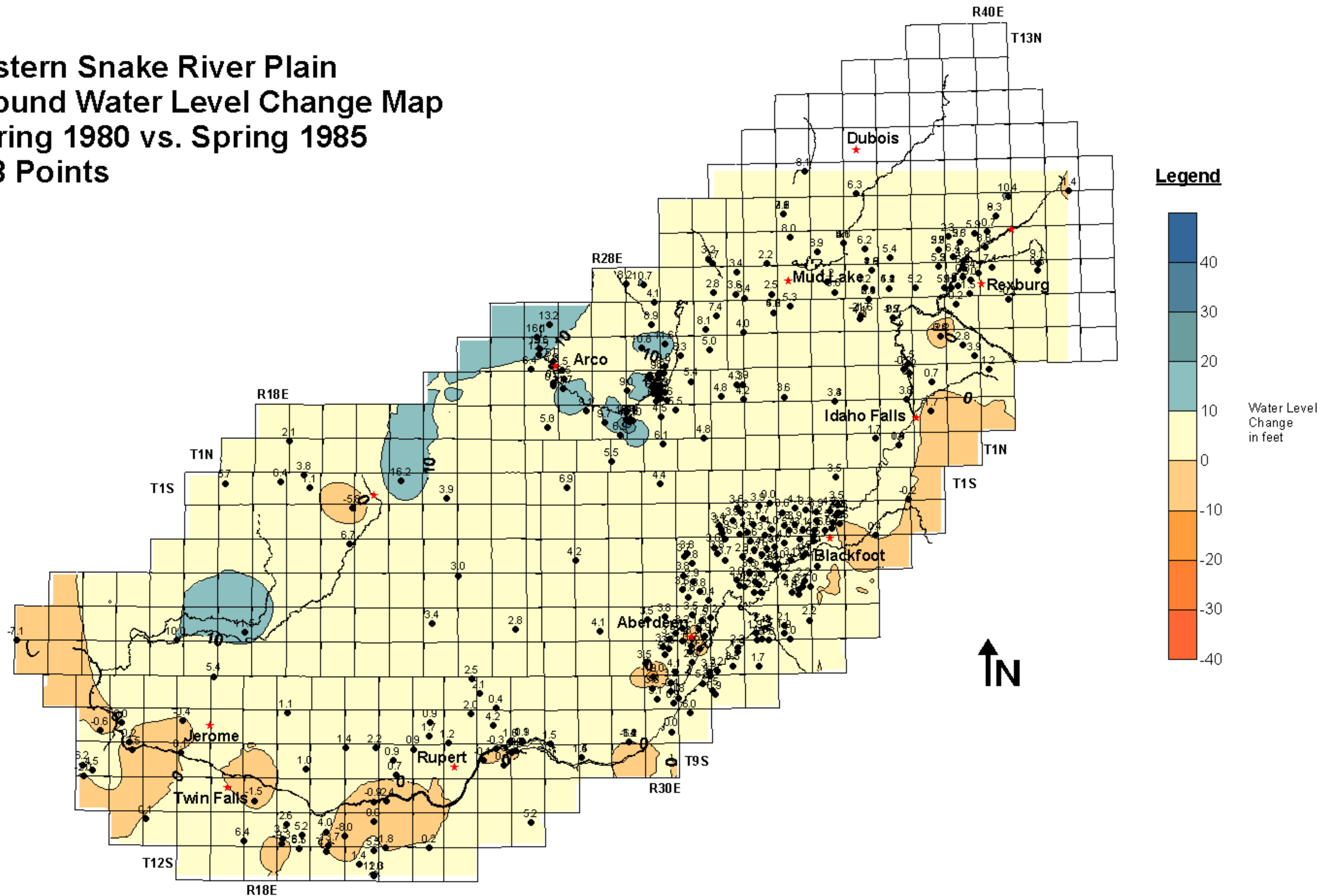
1985-1990

1990-1995

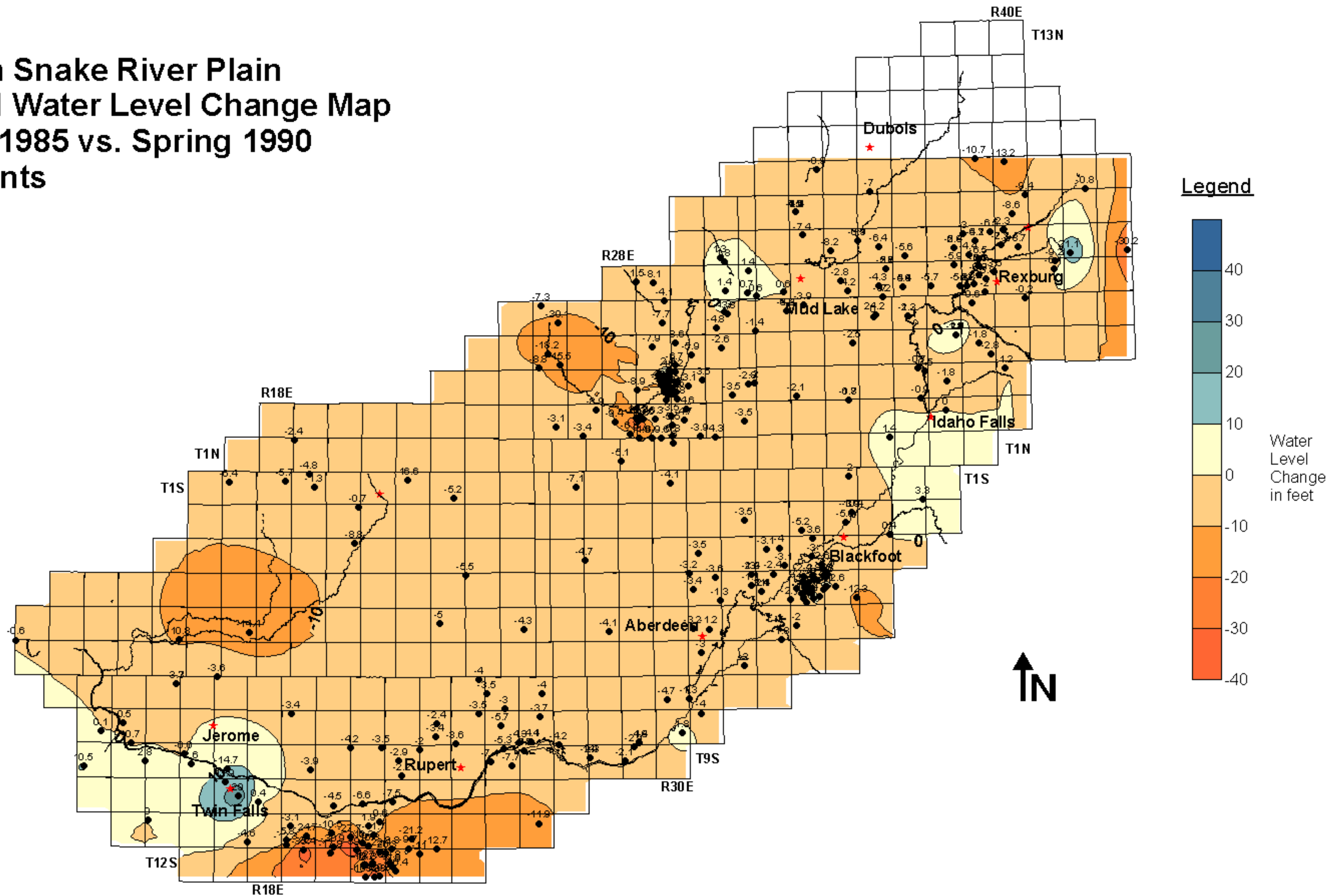
1995-2000

1980-2000

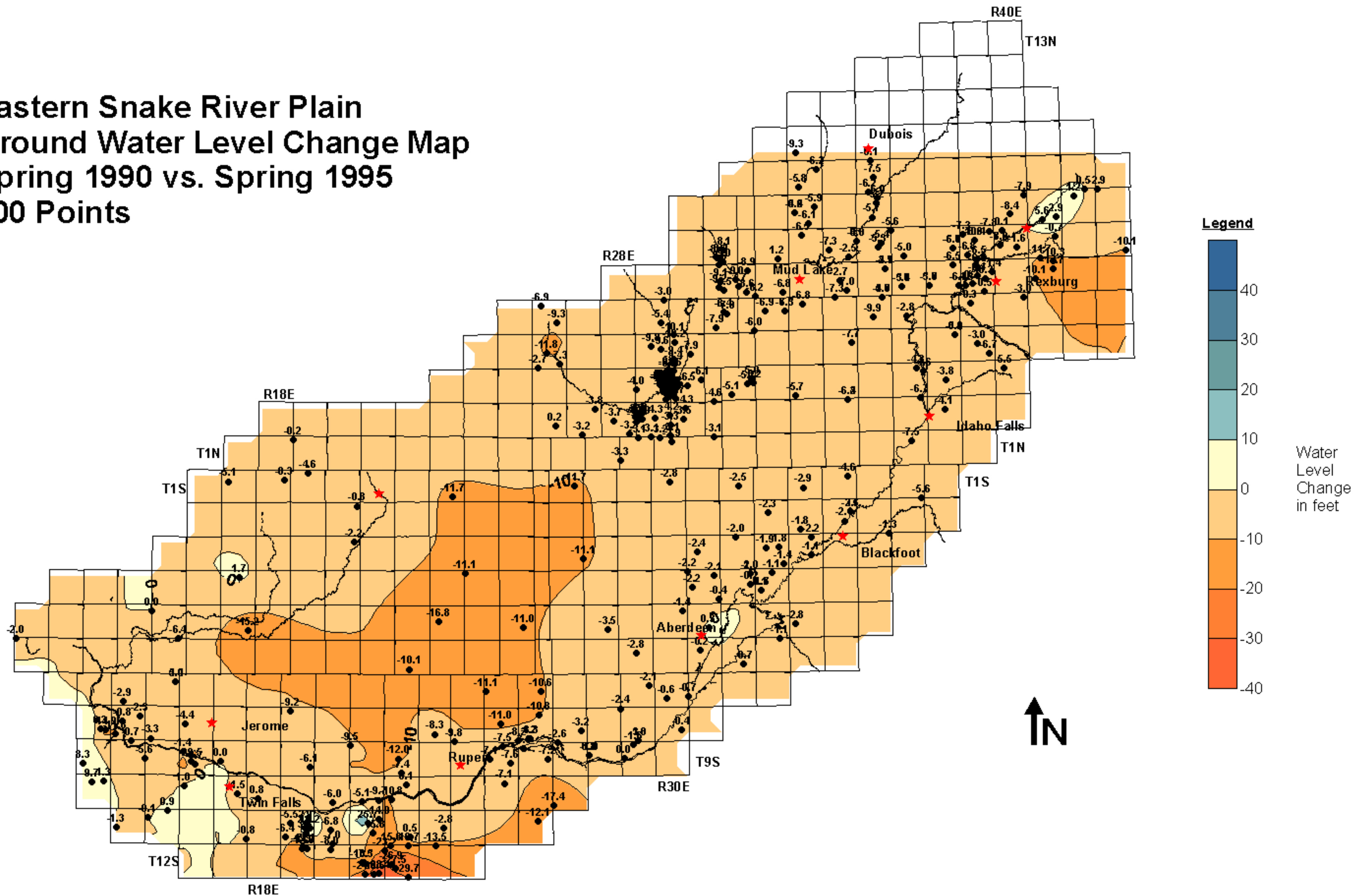
# Eastern Snake River Plain Ground Water Level Change Map Spring 1980 vs. Spring 1985 388 Points



# Eastern Snake River Plain Ground Water Level Change Map Spring 1985 vs. Spring 1990 373 Points

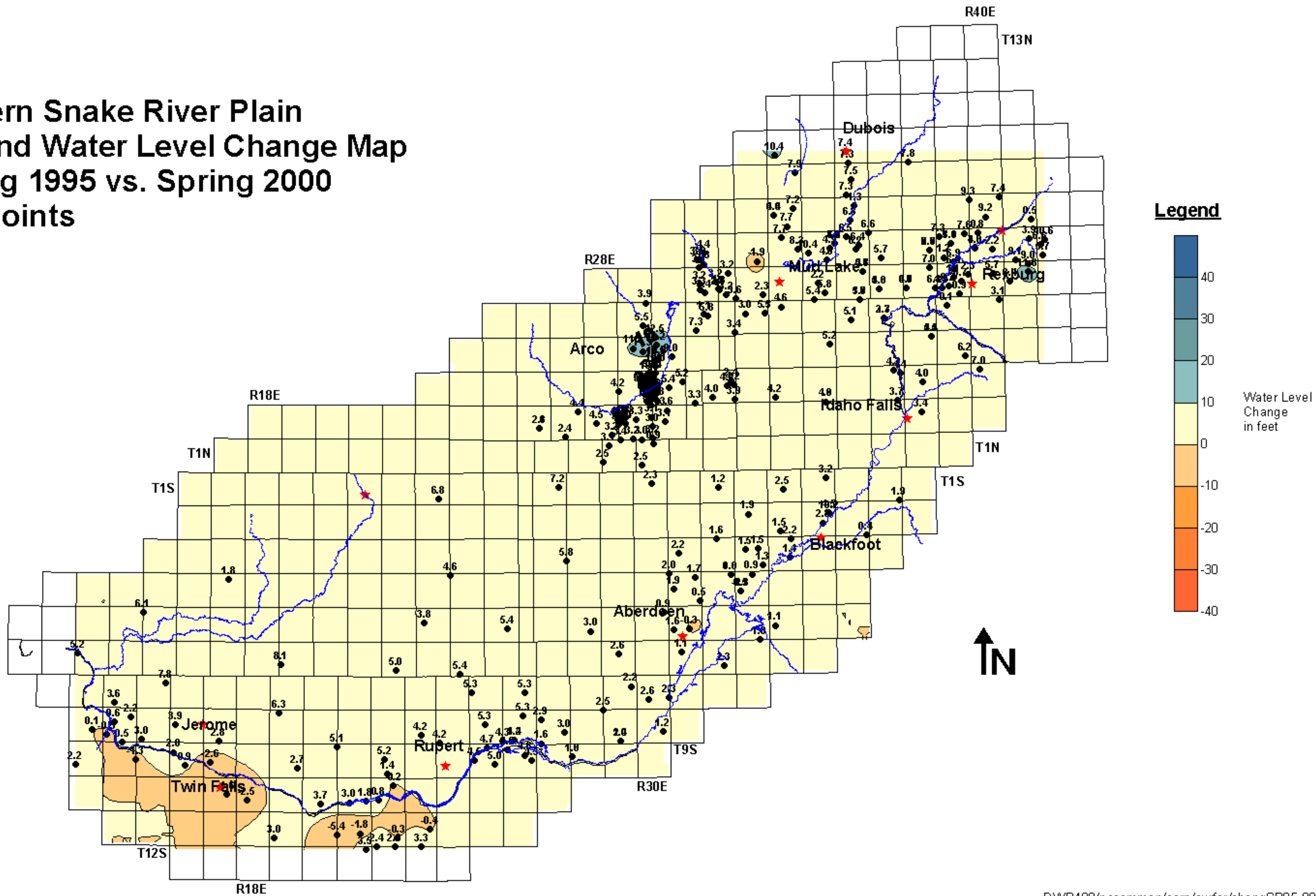


# Eastern Snake River Plain Ground Water Level Change Map Spring 1990 vs. Spring 1995 400 Points





# Eastern Snake River Plain Ground Water Level Change Map Spring 1995 vs. Spring 2000 358 Points



# Eastern Snake River Plain Ground Water Level Change Map Spring 1980 vs. Spring 2000 258 Points

