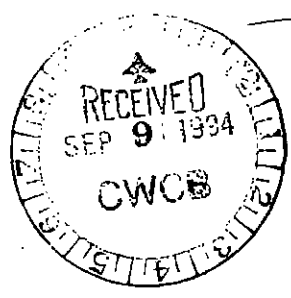


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# WATER LEVELS IN THE ALLUVIAL AQUIFERS OF THE LOWER SOUTH PLATTE RIVER BASIN, COLORADO

1994



By  
Charles G. Roberts

COLORADO DIVISION OF WATER RESOURCES  
OFFICE OF THE STATE ENGINEER

Roy Romer  
Governor

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002829

WATER LEVELS IN THE ALLUVIAL AQUIFERS OF THE  
LOWER SOUTH PLATTE RIVER BASIN, COLORADO

1994

By Chuck Roberts

The purpose of this report is to provide water level data for 67 wells within the Lower South Platte Alluvium for the period of Spring of 1988 through the Spring of 1994. The data presented in this report is a result of cooperation between well owners, the Central Colorado Water Conservancy District, and the Colorado Division of Water Resources. Funding for this project is supplied in part from well permit fees collected and managed by the Colorado Division of Water Resources as a result of the passage of Senate Bill 200 during the 1987 legislative session.

The following table of this report includes up to 13 water level measurements for the indicated period in addition to a water level measurement taken at the time of construction of the well, if available. Measurements are usually taken twice yearly, typically in the spring before irrigation pumping commences and in the fall after irrigation pumping has ceased. The measurement values in this report are expressed in feet below ground surface to water surface and were obtained utilizing an electric sounder device or steel tape. All measurements were done by Division 1 Water Commissioners (DWR) or the Central Colorado Water Conservancy District (CCWCD) as indicated for each well. All of the wells are completed in unconsolidated gravel, sand, silt and clay deposits predominantly of alluvial origin. Figure 1 is a map showing the approximate location of the wells measured for this report. The South Platte River is shown in blue.

The observation wells can be subdivided into two types: those which lie within or very near the South Platte River floodplain, and those located in tributary valleys. The number of observation wells in tributary valleys exceeds the number along the South Platte floodplain by 10.

An evaluation of the data of beginning water levels as compared to Spring 1994 levels reveals that approximately 71% of the wells have experienced a water level decline as compared to 70% reported as declining in the 1993 report. Conversely, 29% of the wells experienced a rise in the Spring 1994 as compared to the Spring 1988 water level. Declines of Spring 1988 to Spring 1994 range from - 7.62' to - 0.03'. Declines on the order of 0.10' are insignificant in that such changes can be caused by wind, earth movement, and the effect of evapotranspiration and phreatic consumption or maybe errors in data recording. Water level rises ranged from 0.06' to 9.50' with a median value of 1.41' for tributary valleys and less than 0.1' for the South Platte River floodplain.

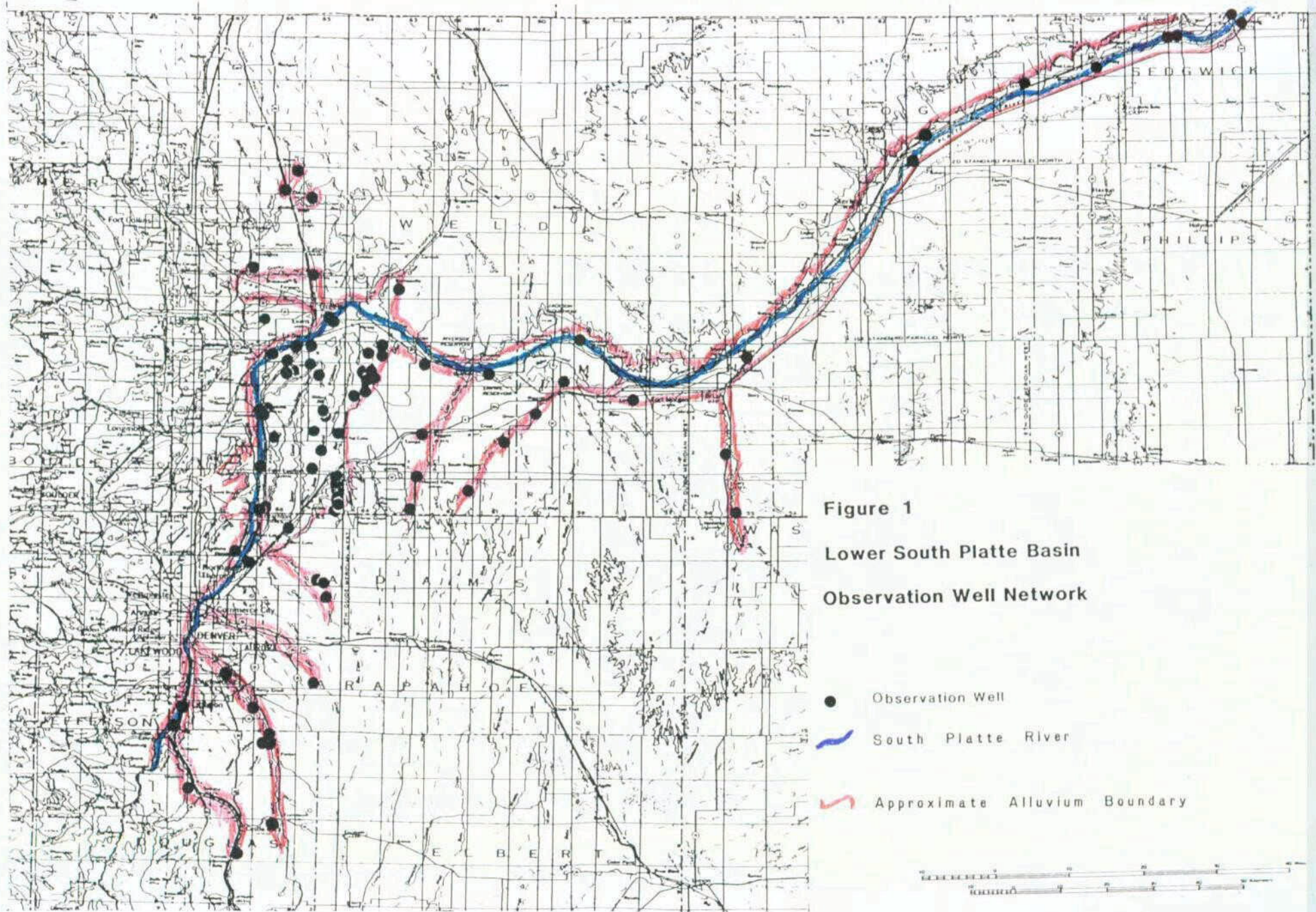
These data also reveal that the degree of these water level declines and rises of wells within the tributary valleys exceed the water level declines and rises of wells within the South Platte River floodplain by a factor of approximately 4.2.

Water level declines over the past five years have averaged 0.21 ft/yr in the floodplains and 1.12 ft/yr in the tributary valleys. Water level rises over the past five years averaged .39 ft/yr (only 1 to 4 records showing a rise) in the floodplain, and 0.528 ft/yr in the tributary valleys.

The reader is advised that these data are based upon the measurements of only 67 wells. This represents only 2 to 4 percent of the total nonexempt wells along the South Platte system between Kassler and the Colorado-Nebraska state line.

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**Figure 1**  
**Lower South Platte Basin**  
**Observation Well Network**

- Observation Well
- South Platte River
- Approximate Alluvium Boundary

## WATER LEVELS IN THE LOWER SOUTH PLATTE NETWORK

Explanation

All of the monitoring wells in this report are completed in unconsolidated gravel, sand silt, and clay of predominately alluvial origin. The following subdivision is based upon location of the wells with respect to modern stream channels, floodplains, terraces, and interstream divides.

Qal - Recent stream alluvium and floodplain deposits.

Qoav - Alluvium of areas not within a distinct floodplain; upland areas and areas along interstream divides; includes deposits of eolian origin.

Qt - Alluvium underlying terraces identified and mapped by other investigators.

WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T09N	R51W	31	NWNWNW	MacNiel, N.	9322 F	Qal	3865	4.50	03/18/48	DWR		-1.55	0.20	-0.35
								5.70	03/18/88					
								7.20	03/30/89					
								6.00	11/14/89					
								7.80	04/02/90					
								7.00	10/31/90					
								5.82	03/29/91					
								6.80	11/08/91					
								7.53	03/25/92					
								7.10	11/16/92					
								6.25	06/08/93					
								5.78	11/08/93					
								6.05	04/07/94					
T10N	R49W	02	SWNWSW	Longman, M. & E.	11125 R	Qal	3711	7.00	03/07/60	DWR		0.55	0.30	-0.45
								6.00	01/18/88					
								7.00	03/30/89					
								8.00	11/14/89					
								6.70	04/02/90					
								7.25	10/31/90					
								6.33	03/28/91					
								6.70	11/08/91					
								7.42	03/25/92					
								7.05	11/16/92					
								6.75	06/08/93					
								6.47	11/08/93					
								6.45	04/07/94					
T11N	R45W	05	NENWNW	Hilderman, F.G.	8325 R	Qal	3540	15.50	03/22/59	DWR		-1.55	0.38	-1.05
								16.00	03/18/88					
								17.40	03/31/89					
								17.80	10/31/89					
								18.00	04/02/90					
								17.75	10/31/90					
								17.03	03/28/91					
								18.40	11/08/91					
								17.64	03/25/92					
								17.10	11/16/92					
								17.43	06/08/93					
								16.53	11/08/93					
								17.05	04/07/94					
T11N	R45W	06	NWNENE	Williamson, L.	2087 F	Qal	3542	20.00	05/04/59	DWR		1.30	1.11	0.00
								18.70	03/18/88					
								19.96	03/31/89					
								19.90	11/14/89					
								20.45	04/02/90					
								20.20	10/31/90					
								19.25	03/28/91					
								20.65	11/08/91					
								21.03	03/25/92					
								19.30	11/16/92					
								19.81	06/08/93					
								19.12	11/08/93					
								18.70	04/07/94					

WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T11N	R47W	28	NWNWNW	Davidson,W.C.	7034 R	Qal	3624	3.70	03/02/49	DWR		-0.90	0.11	-1.30
								3.30	03/18/88					
								5.20	03/31/89					
								7.45	11/14/89					
								6.00	04/02/90					
								5.50	10/31/90					
								3.90	03/28/91					
								5.70	11/08/91					
								4.63	03/25/92					
								5.60	11/16/92					
								4.71	06/08/93					
								5.30	11/08/93					
								4.60	04/07/94					
T12N	R44W	22	SWNESE	USGS Obs.Well	0	Qal	3450	9.20	03/20/68	DWR		2.65	-0.07	2.75
								9.30	03/18/88					
								7.80	03/31/89					
								8.05	11/14/89					
								8.20	03/22/90					
								7.95	10/31/90					
								9.71	03/28/91					
								9.00	11/08/91					
								6.53	03/25/92					
								6.55	11/16/92					
								6.48	06/08/93					
								6.63	11/08/93					
								6.55	04/07/94					
T12N	R44W	26	NESESW	Tranel,L.	2574 F	Qal	3465	0.00	/ /	DWR		1.96	0.26	
								26.70	03/18/88					
								27.40	03/31/89					
								28.40	11/14/89					
								27.20	03/22/90					
								29.35	10/31/90					
								26.70	03/29/91					
								28.50	11/08/91					
								27.59	03/25/92					
								27.10	11/16/92					
								28.40	06/08/93					
								26.74	11/08/93					
								26.44	04/07/94					
T01N	R55W	31	SWSESW	Uhlenhopp,S.& R.	11802 R	Qal	4465	28.80	04/17/42	DWR		-4.46	1.94	0.34
								33.60	03/21/88					
								36.00	03/21/89					
								34.70	12/17/89					
								34.70	03/14/90					
								37.80	10/25/90					
								33.70	03/12/91					
								0.00	/ /					
								0.00	/ /					
								0.00	/ /					
								35.20	03/17/93					
								35.33	11/03/93					
								33.26	03/18/94					

WATER LEVELS IN THE ALLOUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. REMARKS BY	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T01N	R62W	13	SESENE	Roark,C.H.	4874 F	Qal	4821	20.90	03/11/42	DWR	-14.70	3.16	9.50
								45.06	03/21/88				
								43.95	03/21/89				
								43.75	12/17/89				
								42.70	03/14/90				
								0.00					
								41.15	03/12/91				
								41.95	10/24/91				
								39.58	04/05/92				
								40.00	11/04/92				
								38.72	03/17/93				
								37.20	11/03/93				
								35.56	03/18/94				
T01N	R63W	34	NWNWNW	Blood,C.	14860 R	Qoa	4963	109.00	03/09/60	DWR	5.01	-3.54	-6.32
								97.67	03/21/88				
								99.20	03/21/89				
								100.00	12/17/89				
								99.80	03/14/90				
								100.06	10/25/90				
								99.19	03/12/91				
								103.50	10/24/91				
								100.29	04/05/92				
								105.10	11/04/92				
								100.45	03/17/93				
								101.30	11/03/93				
								103.99	03/18/94				
T01N	R65W	25	SESWSW	Hoffner,F.	11875 F	Qoa	5045	34.60	05/08/41	DWR	-5.70	-0.10	-3.14
								37.16	03/21/88				
								42.35	03/21/89				
								50.50	12/17/89				
								41.75	03/14/90				
								41.75	10/25/90				
								39.60	03/12/91				
								43.49	10/24/91				
								40.00	04/05/92				
								42.19	11/04/92				
								40.20	03/17/93				
								42.00	11/03/93				
								40.30	03/18/94				
T02N	R56W	13	NWSWSE	Peterson,C.	8822 F	Qoa	4320	32.10	04/04/62	DWR	-8.04	1.65	1.94
								42.08	03/21/88				
								41.70	03/21/89				
								42.50	12/17/89				
								41.70	03/14/90				
								41.85	10/25/90				
								41.10	03/12/91				
								42.05	10/24/91				
								41.65	04/05/92				
								42.25	11/04/92				
								41.79	03/17/93				
								40.38	11/03/93				
								40.14	03/18/94				



WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIP	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T02N	R61W	11	SWSWSW	Calvert, R.	8309 R	Qa1	4670	23.40	03/30/62	DWR		-22.60	0.27	-4.59
								41.39	03/21/88					
								42.20	03/21/89					
								43.00	12/17/89					
								44.90	03/14/90					
								44.80	10/25/90					
								43.75	03/12/91					
								51.89	10/24/91					
								45.40	04/05/92					
								49.17	11/04/92					
								46.25	03/17/93					
								48.18	11/03/93					
								45.98	03/18/94					
T02N	R63W	01	NWESE	Sargent, B.	13963 R	Qoa	4715	13.20	03/29/62	DWR		19.39		
								20.50	03/21/88	NO ACCESS				
								20.05	03/21/89					
								21.10	12/17/89					
								20.75	03/14/90					
								23.00	10/25/90					
								20.50	03/12/91					
								23.94	10/24/91					
								19.20	04/05/92					
								20.50	11/04/92					
								19.39	03/17/93					
								0.00	/ /					
								0.00	/ /					
T03N	R58W	11	SWSWSW	Shepard, D.	6256 R	Qoa	4365	53.20	05/27/41	DWR		-6.11	1.26	0.09
								59.40	03/21/88					
								60.74	03/21/89					
								62.10	12/17/89					
								61.12	03/14/90					
								62.10	10/25/90					
								60.50	03/12/91					
								63.19	10/24/91					
								60.80	04/05/92					
								62.10	11/04/92					
								60.57	03/17/93					
								61.46	11/03/93					
								59.31	03/18/94					
T03N	R60W	22	SWSWSW	Holden, B.A.	4422 R	Qa1	4568	48.40	04/11/38	DWR		-62.20	-2.06	-7.62
								103.00	03/22/88					
								104.40	03/21/89					
								0.00	/ /					
								0.00	/ /					
								0.00	/ /					
								106.80	03/12/91					
								108.80	10/24/91					
								0.00	/ /					
								108.80	11/04/92					
								108.56	03/17/93					
								141.95	11/03/93					
								110.62	03/18/94					

WATER LEVELS IN THE ALLUVIAL AQUIFERS  
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1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. REMARKS BY	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T03N	R64W	08	SESWSW	L.D.S. Farms	0	Qoa	4743	19.60	03/20/64	DWR	2.49	2.39	0.19
								17.30	03/21/88				
								18.20	03/31/89				
								20.50	12/17/89				
								19.80	03/14/90				
								23.30	10/25/90				
								19.95	03/12/91				
								21.63	10/24/91				
								20.30	04/05/92				
								19.90	11/04/92				
								19.50	03/17/93				
								16.73	11/03/93				
								17.11	03/18/94				
								T04N	R55W	09			
28.70	03/18/88												
29.25	03/21/89												
29.80	12/17/89												
29.60	03/14/90												
27.80	10/25/90												
28.80	03/12/91												
27.51	10/24/91												
28.80	04/05/92												
27.42	11/04/92												
29.04	03/17/93												
25.30	11/03/93												
26.91	03/18/94												
T04N	R63W	13	SWNESE	USGS Obs. Well	0	Qal	4510				5.60	03/21/67	DWR
								4.60	03/22/88				
								6.90	03/21/89				
								7.00	12/17/89				
								6.20	03/14/90				
								6.90	10/25/90				
								3.65	03/12/91				
								0.00					
								0.00					
								0.00					
								6.72	03/17/93				
								5.30	11/03/93				
								4.54	03/18/94				
								T05N	R59W	34	NWSSEW	Williams,G.	0
15.10	03/21/88												
17.20	03/21/89												
15.00	12/17/89												
17.25	03/14/90												
13.40	10/25/90												
16.80	03/12/91												
12.49	10/24/91												
16.33	04/05/92												
14.44	11/04/92												
17.29	03/17/93												
12.60	11/03/93												
15.41	03/18/94												

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1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T04N	R66W	09	SWSESW	Monfort Feed Lots	12010 R	Qt	4735	25.30	04/28/87	DWR		-7.10	-2.20	-0.20
								32.20	03/16/88					
								33.00	03/11/89					
								32.00	10/15/89					
								32.70	03/12/90					
								30.75	10/22/90					
								32.30	03/05/91					
								31.50	10/16/91					
								0.00	03/24/92					
								0.00	/					
								30.20	03/12/93					
								30.75	10/25/93					
								32.40	03/29/94					
								T06N	R63W					
9.60	03/16/88													
11.80	03/11/89													
10.80	10/15/89													
12.40	03/12/90													
11.40	10/22/90													
12.35	03/05/91													
0.00	/													
13.05	03/24/92													
13.30	10/23/92													
13.90	03/12/93													
12.13	10/25/93													
11.93	03/29/94													
T06N	R65W	17	SWNWNW	Farr, H.W.	13423 R	Qoa	4763			25.20	04/21/36	DWR		0.40
								23.60	03/16/88					
								27.00	03/11/89					
								22.90	10/15/89					
								25.80	03/12/90					
								26.50	10/22/90					
								25.50	03/05/91					
								26.20	10/16/91					
								25.20	03/24/92					
								26.90	10/23/92					
								25.70	03/12/93					
								26.00	10/25/93					
								24.80	03/29/94					
								T06N	R67W	12	NWNWNW			
8.40	03/16/88													
9.40	03/11/89													
13.10	10/15/89													
10.50	03/12/90													
9.75	10/22/90													
10.25	03/05/91													
9.60	10/16/91													
9.70	03/24/92													
7.90	10/23/92													
9.75	03/12/93													
6.00	10/25/93													
7.30	03/29/94													

WATER LEVELS IN THE ALLUVIAL AQUIFERS  
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1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T08N	R65W	29	NENWNW	Pettit,L.	9127	F	Qal	4983	8.40	03/07/76	DWR	-0.30	0.70	-0.30
									8.40	03/16/88				
									9.60	03/11/89				
									10.40	10/15/89				
									11.20	03/12/90				
									8.75	10/22/90				
									10.50	03/05/91				
									10.70	10/16/91				
									10.90	03/24/92				
									8.20	10/23/92				
									9.40	03/12/93				
									8.70	10/25/93				
									8.70	03/29/94				
									T08N	R66W	01			
22.90	03/16/88													
23.80	03/11/89													
24.70	10/15/89													
24.60	03/12/90													
25.00	10/22/90													
24.70	03/05/91													
25.00	10/16/91													
21.95	03/24/92													
20.90	10/23/92													
21.70	03/12/93													
22.20	10/25/93													
22.90	03/29/94													
T08N	R66W	22	NENENE	Jones,T.	11303	R	Qoa	5070				20.20	04/13/51	DWR
									16.50	03/16/88				
									20.00	03/11/89				
									20.90	10/15/89				
									21.20	03/12/90				
									21.35	10/22/90				
									21.60	03/05/91				
									21.60	10/16/91				
									21.30	03/24/92				
									22.10	10/23/92				
									22.60	03/12/93				
									21.33	10/25/93				
									21.78	03/29/94				
									T03N	R65W	22	SESWSW	Frank, Wm.	0
6.70	03/24/88													
7.00	03/24/89													
13.75	10/30/89													
6.89	03/27/90													
16.89	10/17/90													
8.15	03/13/91													
12.00	12/17/91													
0.00	///													
0.00	///													
10.50	06/01/93													
0.00	///													
0.00	///													

MEAS.  
TEMP.  
SUSPENDED

WATER LEVELS IN THE ALLOVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T02N	R65W	32	NWNENE	Kerbs, E.	12683 R	Qoav	4920	30.60	04/30/64	DWR		0.00	35.80	0.00
								25.60	03/24/88					
								27.00	03/24/89	MEAS. TEMP. SUSPENDED				
								35.00	09/22/89					
								29.90	03/20/90					
								36.50	11/12/90					
								30.98	03/13/91					
								36.50	12/17/91					
								0.00	///					
								0.00	///					
								35.80	06/01/93					
								0.00	///					
								0.00	///					
T01N	R66W	30	NESWNE	Saski, T.	18769 R	Qt	4951	18.40	03/27/89	DWR		20.40	20.40	0.00
								20.30	03/24/88					
								20.10	03/24/89	MEAS. TEMP. SUSPENDED				
								17.55	10/30/89					
								20.50	03/20/90					
								15.80	11/12/90					
								20.25	03/13/91					
								18.00	12/17/91					
								0.00	///					
								0.00	///					
								20.40	06/01/93					
								0.00	///					
								0.00	///					
T04N	R61W	28	NWNWNW	Eqqus Farms	0	Qal	4480	30.30	03/02/88	DWR		-3.98	1.40	-0.28
								34.00	03/21/88					
								35.30	03/21/89					
								32.60	12/17/89					
								35.75	03/14/90					
								29.35	10/25/90					
								35.45	03/12/91					
								28.05	10/24/91					
								27.87	04/05/92					
								0.00	///					
								35.68	03/17/93					
								30.87	11/03/93					
								34.28	03/18/94					
T04S	R65W	28	NESWSE	USGS Obs. Well	0	Qal	5640	5.80	05/01/75	DWR		-7.61	0.84	-3.91
								9.50	03/25/88					
								12.70	03/15/89					
								13.40	10/24/89					
								12.80	03/22/90					
								13.70	10/25/90					
								10.46	03/21/91					
								14.10	10/23/91					
								0.00	///					
								12.05	11/01/92					
								14.25	04/22/93					
								13.41	10/28/93					
								13.41	04/14/94					

WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T05S	R66W	18	SESWSE	Colo. Div. Parks	0	Qal	5632	35.50	03/07/57	DWR		15.79	1.79	-0.41
								19.30	03/25/88					
								19.80	03/15/89					
								24.20	10/24/89					
								22.50	03/22/90					
								24.44	10/25/90					
								25.52	03/21/91					
								25.75	10/23/91					
								0.00						
								23.33	11/01/92					
								21.50	04/22/93					
								23.33	10/28/93					
								19.71	04/14/94					
								T06S	R66W					
6.00	03/25/88													
5.80	03/15/89													
6.30	10/24/89													
5.78	03/22/90													
6.38	10/25/90													
6.00	03/21/91													
6.40	10/23/91													
0.00														
6.15	11/01/92													
6.08	04/22/93													
6.25	10/28/93													
6.29	04/14/94													
T06S	R66W	08	NENENE	Cottonwood Est.	0	Qal	5748			0.00		DWR	North Well	
								26.80	03/25/88					
								28.00	03/15/89					
								28.50	10/24/89					
								26.50	03/22/90					
								27.83	10/25/90					
								27.27	03/21/91					
								28.85	10/23/91					
								0.00						
								27.50	11/01/92					
								27.75	04/22/93					
								26.75	10/28/93					
								26.79	04/14/94					
								T06S	R66W	08	NENENE			
27.70	03/25/88													
29.00	03/15/89													
29.30	10/24/89													
27.30	03/22/90													
28.18	10/25/90													
28.02	03/21/91													
29.65	10/23/91													
0.00														
29.25	11/01/92													
28.83	04/22/93													
27.50	10/28/94													
27.58	04/14/94													

WATER LEVELS IN THE ALLOVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T07S	R68W	10	NENWSE	Clapp, F.	0	Qal	5680	4.00	03/14/80	DWR		-1.50	-0.42	-0.10
								5.40	03/25/88					
								5.40	03/15/89					
								5.80	10/24/89					
								5.50	03/22/90					
								5.83	10/25/90					
								5.71	04/21/91					
								5.80	10/23/91					
								0.00	/					
								5.90	11/01/92					
								5.08	04/22/93					
								5.42	10/28/93					
								5.50	04/14/94					
T08S	R67W	27	SESWNE	Lowell, J.	7262 P	Qal	6340	17.80	06/03/76	DWR		9.76	-2.71	-1.64
								6.40	03/25/88					
								7.00	03/15/89					
								7.30	10/24/89					
								7.00	03/22/90					
								6.50	10/25/90					
								7.56	04/12/91					
								6.35	10/23/91					
								0.00	/					
								5.20	11/01/92					
								5.33	04/22/93					
								8.25	10/28/93					
								8.04	04/14/94					
T04N	R59W	31	SESENE	Frank, E.	13994 F	Qoav	4505	97.00	04/28/45	CCWC	Well A1	-22.10	-6.30	
								0.00	/					
								111.20	04/11/89					
								113.30	10/16/89					
								111.14	04/10/90					
								113.90	10/22/90					
								111.65	04/01/91					
								115.40	10/17/91					
								0.00	/					
								0.00	/					
								112.82	03/03/93					
								115.90	10/01/93					
								119.12	03/25/94					
T04N	R64W	01	SWSWSW	Amigo Farms	6230 R	Qoav	4615	18.00	01/01/46	CCWC	Well E2	9.39	0.72	
								0.00	/					
								8.40	03/30/89					
								10.04	10/20/89					
								9.08	03/27/90					
								9.25	10/18/90					
								12.60	04/17/91					
								8.60	10/18/91					
								0.00	/					
								0.00	/					
								9.33	03/23/93					
								9.44	11/22/93					
								8.61	03/28/94					

WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T04N	R64W	12	SWSWSW	Watkins Trust	12912 R	Qoav	4635	21.00	05/23/77	CCWC	Well E4	3.95	0.11	
								0.00	///					
								17.50	03/30/89					
								16.97	10/20/89					
								16.67	03/27/90					
								18.50	10/18/90					
								18.70	04/17/91					
								19.40	10/18/91					
								0.00	///					
								0.00	///					
								17.16	03/23/93					
								18.82	11/22/93					
								17.05	03/28/94					
								T04N	R64W	22				
0.00	///													
9.90	03/30/89													
8.01	10/20/89													
9.40	03/27/90													
9.05	10/18/90													
10.48	04/17/91													
9.30	10/18/91													
0.00	///													
0.00	///													
9.22	03/23/93													
9.42	11/22/93													
9.37	03/28/94													
T04N	R64W	34	SWSENE	Haddix,E. and H.	0	Qoav	4695				0.00	///	CCWC	Well E6
								0.00	///					
								14.10	03/30/89					
								15.37	10/20/89					
								13.72	03/27/90					
								16.10	10/18/90					
								15.10	04/17/91					
								15.80	10/18/91					
								0.00	///					
								0.00	///					
								12.73	03/23/93					
								15.75	11/22/93					
								14.39	03/28/94					
								T04N	R64W	34	SWSENE	Haddix,E. and H.	2177 F	
0.00	///													
14.70	03/30/89													
17.10	10/20/89													
0.00	///													
17.00	10/18/90													
16.03	04/17/91													
17.50	10/18/91													
0.00	///													
0.00	///													
14.05	03/23/93													
16.96	11/22/93													
14.29	03/28/94													



WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T01N	R65W	01	SWSWE	Taoka Bros.	11709 F	Qoav	4959	30.00	11/30/37	CCWC		21.25	1.46	
								0.00			Well E9			
								8.80	04/20/89					
								9.04	10/13/89					
								8.90	04/10/90					
								9.88	10/17/90					
								15.65	04/18/91					
								12.10	10/24/91					
								0.00						
								0.00						
								10.21	03/23/93					
								10.95	11/22/93					
								8.75	05/05/94					
T02N	R65W	04	NWNWSW	Hill,O	5 R	Qoav	4880	50.00	04/01/49	CCWC		10.45	2.84	
								0.00			Well D1			
								39.30	03/29/89					
								40.27	10/19/89					
								39.48	03/27/90					
								42.66	10/17/90					
								42.55	04/10/91					
								0.00						
								0.00						
								0.00						
								42.39	03/24/93					
								40.82	10/29/93					
								39.55	04/15/94					
T02S	R65W	23	SWESENE	Stapleton Airport	18380 F	Qal	5300	0.00		CCWC		0.00	14.27	
								0.00			Well E7 NO			
								17.00	04/20/89		MEAS./ACCE			
								17.79	10/13/89		SS			
								17.42	04/10/90					
								16.70	10/17/90					
								16.90	04/18/91					
								17.47	10/24/91					
								0.00						
								0.00						
								14.27	03/22/93					
								14.20	10/27/93					
								0.00						
T02N	R65W	32	NEWNNE	Bergston,R.	12683 R	Qoav	4920	38.00	06/01/35	CCWC		3.30	-0.50	
								0.00			Well D2			
								27.00	03/23/89					
								38.13	10/19/89					
								32.65	03/27/90					
								32.65	10/17/90					
								34.25	04/10/91					
								0.00						
								0.00						
								0.00						
								34.20	03/24/93					
								40.15	10/29/93					
								34.70	04/15/94					

WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T02S	R65W	35	SESWSE	Stapleton Airport	18380 R	Qal	5360	0.00	///	CCWC	Well E8 NO MEAS./ACCE SS	0.00	17.29	
								0.00	///					
								20.20	04/20/89					
								22.07	10/13/89					
								18.08	04/10/90					
								19.83	10/17/90					
								22.48	04/18/91					
								19.75	10/24/91					
								0.00	///					
								0.00	///					
								17.29	03/22/93					
								20.80	10/27/93					
								0.00	///					
								T04N	R65W					
0.00	///													
16.50	03/29/89													
12.60	10/16/89													
17.50	03/26/90													
11.75	10/10/90													
0.00	///													
12.40	10/18/91													
0.00	///													
0.00	///													
0.00	///													
13.08	10/05/93													
0.00	///													
T04N	R65W	18	NENESE	Root,S.	14189	Qt	4710	0.00	///	CCWC	Well C2		-8.67	
								0.00	///					
								9.20	03/29/89					
								6.64	10/16/89					
								7.88	03/26/90					
								6.13	10/10/90					
								9.78	04/09/91					
								10.70	10/18/91					
								0.00	///					
								0.00	///					
								0.00	///					
10.83	10/05/93													
8.67	04/07/94													
T01S	R66W	11	SWSWE	Wenzel	0	Qoav	5050	0.00	///	CCWC	Well D4		1.05	
								0.00	///					
								13.40	04/20/89					
								16.59	10/16/89					
								14.42	04/12/90					
								13.35	10/17/90					
								13.70	04/10/91					
								14.77	10/24/91					
								0.00	///					
								0.00	///					
								14.40	03/24/93					
13.83	11/22/93													
13.35	04/27/94													

WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94	
T03N	R66W	18	SWNESW	Boulter, Wm.	0	Qt	4805	0.00	///	CCWC	Well F5				
								0.00	///						
								23.00	05/11/89						
								21.51	10/16/89						
								22.20	03/26/90						
								21.52	10/10/90						
								22.88	04/01/91						
								20.30	10/18/91						
								0.00	///						
								0.00	///						
								21.15	03/16/93						
								20.70	10/06/93						
								21.62	04/27/94						
T03N	R66W	18	SWNESW	Boulter, W.	0	Qt	4805	0.00	///	CCWC	WELL F6			0.27	
								0.00	///						
								23.30	05/11/89						
								21.43	10/16/89						
								22.64	03/26/90						
								21.77	10/10/90						
								23.25	04/01/91						
								21.10	10/18/91						
								0.00	///						
								0.00	///						
								22.62	03/16/93						
								21.21	10/16/94						
								22.35	04/27/94						
T04N	R66W	14	NENENW	Ewing, W.H.	12040 R	Qoav	4725	16.00	04/01/51	CCWC	Well C3			-12.30	-1.38
								0.00	///						
								28.70	03/29/89						
								27.69	10/16/89						
								28.33	03/26/90						
								27.04	10/10/90						
								28.60	04/09/91						
								27.30	10/15/91						
								0.00	///						
								0.00	///						
								26.92	03/16/93						
								27.42	10/07/93						
								28.30	05/03/94						
T04N	R66W	27	SESENE	Lorenz, J.O.	0	Qoav	4755	0.00	///	CCWC	Well C4			0.67	
								0.00	///						
								6.90	03/29/89						
								5.88	10/16/89						
								5.48	03/26/90						
								5.67	10/10/90						
								0.00	///						
								5.90	10/18/91						
								0.00	///						
								0.00	///						
								5.42	03/16/93						
								4.82	10/05/93						
								4.75	04/27/94						



WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T04S	R67S	28	NE22NW	Denver Water Dept.	27286 F	Qal	5410	0.00				-18.70	2.14	
								0.00						
								0.00						
								0.00						
								0.00						
								0.00						
								28.56	03/21/91	DWR				
								20.60	10/23/91					
								0.00						
								20.15	11/01/92					
								20.85	04/22/93					
17.96	10/28/93													
18.71	04/14/94													
T05S	R68W	17	NESESW	Denver Water Dept.	11555 R	Qal	5313	11.00	04/12/52	DWR		-1.58	1.34	
								0.00						
								0.00						
								0.00						
								0.00						
								0.00						
								13.20	03/21/91					
								14.10	10/23/91					
								0.00						
								14.05	11/01/92					
								13.92	04/22/93					
13.00	10/28/93													
12.58	04/14/94													
T05S	R68W	31	NENWNE	Denver Water Dept.	2188 F	Qal	5351	14.00	08/02/59	DWR		-3.13	1.95	
								0.00						
								0.00						
								0.00						
								0.00						
								0.00						
								17.88	03/21/91					
								19.90	10/23/91					
								0.00						
								19.90	11/01/92					
								19.08	04/22/93					
17.17	10/28/93													
17.13	04/14/94													
T08S	R66W	03	NWESE	CENTENNIAL MATL'S	20706 R	Qal	6120	8.99	06/01/56	DWR		-3.64	-0.13	-1.58
								11.05	03/25/88					
								0.00						
								0.00						
								0.00						
								0.00						
								12.15	04/12/91					
								12.50	10/23/91					
								0.00						
								11.75	11/01/92					
								12.50	04/22/93					
11.75	10/28/93													
12.63	04/14/94													

WATER LEVELS IN THE ALLUVIAL AQUIFERS  
OF THE  
LOWER SOUTH PLATTE RIVER BASIN, CO  
1994

TWN	RNG	SEC	QTR	OWNER	PERMIT	AQUIF	ELEV LAND SURF	WATER LEVEL	DATE	MEAS. BY	REMARKS	CHANGE 1ST TO SPRING 1994	CHANGE S93 TO S94	CHANGE S88 TO S94
T05N	R65W	14		Lorenz Farms	0	Qoav	4612	0.00 0.00 4.90 0.00 3.05 0.00 0.00 4.90 0.00 0.00 5.08 4.75 3.95	  03/29/89  03/27/90  10/17/91  03/10/93 10/01/93 03/25/94	CCWC	Well B4		1.13	
T09N	R51W	10	SWSWSW	Stieb Bros. Inc.	5316	F Qal	3830	8.00 0.00 0.00 0.00 0.00 9.45 0.00 0.00 0.00 0.00 8.10	  03/01/64  03/28/91  07/24/94	DWR		-0.10	-8.10	
T04N	R64W	10	SESESE	Dywer, T.E.	13072	R Qoav	4637	22.56 9.52 10.10 10.10 0.00 12.10 10.75 10.42 9.20 10.35 9.37 9.95 9.55	06/13/57 03/21/88 03/21/89 12/17/89 10/25/90 03/12/91 10/24/91 04/05/92 11/04/92 03/17/93 11/03/93 11/03/94	DWR		13.01	-0.18	-0.03
*** Total ***												-129.3	126.70	-24.53