

Appendix-A: Water table elevations observed in the monitoring/production wells (during the irrigation year 1968) used
in creating the initial water table profile for transient simulation

Loc_PLSS	Lat_DD	Long_DD	Row	Col.	Owner	Gr_El_ft	Depth_WT_ft	WT_Elev_ft	Well_Depth_ft	Year
17s02e33200	32.787	-106.733	23	84	Dick Hille	4799.94	563.99	4235.95		1968
18s01e07223	32.762	-106.873	15	52	N. Graham	4359.95	267.00	4092.95		1968
18s01e27432	32.711	-106.823	33	56	USDA-Jornada Range	4319.95	234.00	4085.95	350.00	1968
18s02w36322	32.700	-106.998	18	18	W.A. Winder	4379.95	364.00	4015.95		1968
19s01e01222	32.693	-106.784	41	62	U.S. Government	4304.95	210.00	4094.95	350.00	1968
19s01e16244	32.656	-106.835	45	47	U.S. Government	4381.95	306.00	4075.95		1968
19s01w22122	32.649	-106.929	38	27	W.A. Winder	4349.95	322.00	4027.95		1968
19s02w03122	32.693	-107.032	17	10	Unknown	4234.49	130.54	4103.95		1968
19s02e02210	32.689	-106.703	50	79	U.S. Government	4499.95	337.00	4162.95		1968
19s02e33123	32.616	-106.746	64	62	US Govt.	4310.95	246.76	4064.19	509.99	1968
19s02e33141	32.616	-106.746	64	62	U.S. Government	4329.95	267.00	4062.95		1968
19s03e19120	32.645	-106.671	64	81	U.S. Government	4509.95	229.00	4280.95	509.99	1968
20s01e04121	32.605	-106.848	57	39	U.S. Government	4316.95	274.00	4042.95	300.00	1968
20s01e14144	32.569	-106.810	70	43	U.S. Government	4362.95	318.00	4044.95	356.00	1968
20s01e35221	32.532	-106.805	79	39	NMSU Ranch	4349.95	275.00	4074.95	373.00	1968
20s01w10424	32.580	-106.920	56	20	NMSU Ranch	4339.95	305.00	4034.95	320.00	1968
20s01w11313	32.580	-106.920	56	21	N.M.S.U. Ranch	4339.95	305.50	4034.45		1968
20s01w23300	32.547	-106.912	65	18	NM Highway Dept.	4309.95	295.00	4014.95	400.00	1968

Loc_PLSS	Lat_DD	Long_DD	Row	Col.	Owner	Gr_El_ft	Depth_WT_ft	WT_Elev-ft	Well_Depth_ft	Year
20s02e28334	32.533	-106.746	85	52	USDA-Jornada Range	4309.95	248.00	4061.95	365.00	1968
20s02e35244	32.525	-106.699	91	61	Brown	4334.95	268.50	4066.45	790.99	1968
20s03e15422	32.569	-106.611	89	85	NASA	4742.94	207.34	4535.60	577.99	1968
20s03e30333	32.532	-106.664	93	69	NASA	4389.95	327.88	4062.07	861.99	1968
20s03e31123	32.529	-106.674	93	67	NASA	4409.95	323.04	4086.91	849.99	1968
21s02e11120	32.500	-106.708	97	56	Harvey	4304.95	224.00	4080.95	390.00	1968
21s02e11324a	32.493	-106.708	99	55	J.L. Smith	4304.95	244.92	4060.03		1968
21s02e12222	32.503	-106.683	99	62	Unknown	4374.95	304.00	4070.95	390.00	1968
21s03e19333	32.460	-106.666	111	60	J.H. Creegan	4384.95	320.00	4064.95		1968
21s03e31311	32.438	-106.666	116	58	W.K. Miller	4419.95	332.00	4087.95	380.00	1968
21s03e33142	32.442	-106.639	118	64	Edsel MacArthur	4644.94	559.99	4084.95	699.99	1968
22s02e11440	32.403	-106.699	122	47	J.F. Apodaca	4409.95	315.00	4094.95		1968
22s02e13411	32.396	-106.691	125	48	J.W. Daugherty	4452.95	375.00	4077.95	429.99	1968
22s02e14442	32.392	-106.699	125	45	20th Century Fox	4428.95	347.56	4081.39	784.99	1968
22s02e23122	32.388	-106.708	125	43	Chevron Pipeline Co.	4409.95	330.00	4079.95	614.99	1968
22s02e26214	32.371	-106.704	130	42	Nakayana	4396.95	24.00	4372.95	93.00	1968
22s03e07444	32.403	-106.664	126	54	Sam Osburn	4529.94	423.56	4106.38		1968

Loc_PLSS	Lat_DD	Long_DD	Row	Col.	Owner	Gr_El_ft	Depth_WT_ft	WT_Elev-ft	Well_Depth_ft	Year
22s03e07444a	32.403	-106.664	125	54	Keeling	4527.94	423.99	4103.95	563.99	1968
22s03e08144	32.410	-106.655	125	57	Unknown	4516.93	481.98	4034.95		1968
22s03e09322	32.410	-106.638	126	60	Butterfield	4637.94	563.99	4073.95	696.99	1968
22s03e11321	32.410	-106.609	129	67	George A. Martin	4889.94	73.00	4816.94	204.00	1968
22s03e23321	32.381	-106.609	136	63	George A. Martin	4929.94	133.00	4796.94	204.00	1968
22s03e09322	32.410	-106.638	126	60	M.C. Higgins	4639.94	563.99	4075.95	633.99	1968
23s03e03232	32.341	-106.619	145	57	Cox	5074.94	41.00	5033.94	120.00	1968
23s03e20222	32.301	-106.648	152	46	Babey	4584.94				1968
23s03e21312	32.294	-106.644	155	46	Isaacs	4599.94				1968
23s03e27400	32.272	-106.614	163	49	Cox	4754.94				1968

Sources:

- 1) King, W. E., Hawley, J. W., Taylor, A. M., & Wilson, R. P. (1971). *Geology and Ground-water Resources of Central and Western Doña Ana County, New Mexico*. New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 1. 64 p.
- 2) Shomaker, J. W., & Finch Jr., S. T. (1996). *Multi layer ground-water flow model of Southern Jornada Del Muerto Basin, Doña Ana County, New Mexico, and predicted effects of pumping wells LRG-430-S-29 and S-30*. Albuquerque, N M. John Shomaker & Associates, Inc. 26 p.
- 3) Wilson, C. A., White, R. R., Orr, B. R., & Roybal, R. G. (1981). *Water Resources of the Rincon and Mesilla Valleys and Adjacent Areas*. New Mexico State Engineer Technical Report 43. 514 p.