Key to data headings for SOIL data from Rio Grande Basin Initiative Survey of Leasburg Canal System 2002-2006

The following data sets are the complete databases of canal and soil characteristics and vegetation sampled from 252 sites along the Leasburg system of the Elephant Butte Irrigation District between 2002 and 2006 during the peak of the irrigation season (**Jill Schroeder (jischroe@nmsu.edu, Leigh Murray (lmurray@nmsu.edu), April Ulery (aulery@nmsu.edu), Cheryl Fiore (cfiore@nmsu.edu), Hien Nguyen, Xiaoli Liu. 2010. Identification and Detection of Problem and Noxious Weeds on Irrigation Canals will Lead to Effective Weed Management Programs and Increase Water for Irrigation: *Survey of the Vegetation and Soils of the Leasburg Canal System 2002-2006.*).**

Key to data headings

Soil data Headings

Sample #	Sample site number (1 – 297)
Lateral	The name of each lateral or canal (assigned by EBID)
Latitude	Location measurement from the equator running north and south; positive values run from the equator north and negative values from the equator south.
Longitude	Location measurement from the Prime Meridian (the longitude that runs through Greenwich, England); positive values run east and negative values run west
Length (mi)	Length of lateral or canal in miles
Recom Capacity	Recommended capacity refers to the volume of water that can flow through a canal, determined by the size of the canal/lateral
Bank Angle	Degree of canal bank slope (i.e. steepness of slope)
Canal Depth	Meters measured from bottom of the canal to the top of the canal bank
Water Depth	Meters measured from the bottom of the canal to the top of the water
Opposite Bank	A visual field observation considering the bank angle, vegetation type and % ground cover. S = same or similar as the data collection site; D = different
pH of Soil Saturation Paste	The negative logarithm of the hydrogen ion concentration of a soil measured by combination electrode placed directly into the saturated paste
EC of Soil Paste Ext mmhos/cm	Electrical conductivity is the capacity of the soil to conduct or transmit electrical current related to dissolved solutes and is measured in the extract *
Sodium Adsorption Ration (SAR)	A measure of the amount of sodium in the saturated soil paste extract relative to the amount of calcium and magnesium
Calculated Exchangeable Na (%ESP)	Exchangeable sodium percentage is calculated from the SAR and is a measure of the extent to which the adsorption complex of a soil is occupied by sodium*
Organic Matter (percent)	The decomposed plant or animal material in soil, “humus”.*
NO3 –N 1:5 (soil water) extract (ppm)	Nitrogen as Nitrate, an inorganic compound extracted with water from the soil.
NaHCO3 extracted P (ppm)	Phosphorus extracted with sodium bicarbonate for alkaline soils
K 1:5 (soil:water) Extract (ppm)	Potassium extracted with water from soil
Texture by feel	A multi-step technique used to classify untreated soil into various texture classes.

Some of the sampling site data were deleted for the original statistical analyses which are summarized in *AES Report*. The sites and reasons for deletion for the original statistical analyses are listed as follows:

1. Deleted 5 samples sites (sample numbers 76, 87, 90, 91, 214) where
    a. No vegetation was present
    b. Vegetation was dead
    c. Vegetation was mowed
    d. Other or pecan
2. A further 11 sampled locations were deleted because soil analyses contained unreasonable or suspicious values (sample numbers 104, 107, 112, 123, 126, 170, 174, 181, 260, 281, 283)

A few of the data characteristics could not be obtained due to conditions at the time of sampling.
Usable files can be obtained by contacting one of the authors and by making appropriate reference to the source of the information.

SOIL data from Rio Grande Basin Initiative Survey of Leasburg Canal System 2002-2006

Sample #	Lateral	Latitude	Longitude	Length (mi)	Recom Capacity	Bank Angle	Canal Depth	Water Depth	Opposite Bank	pH of Soil Saturation Paste	EC of Soil Paste Ext mmhos/cm	Sodium Adsorption Ratio (SAR)	Calculated Exchangeable Na %ESP	Organic Matter (percent)	NO3 -N 1:5 (Soil water) extract (ppm)	NaHC3 extracted P (ppm)	K 1:5 (soil:water) Extract (ppm)	Texture by feel
1	Leasburg	319403	3595406	13.66	700	65	1.35	1.20	S	7.87	7.36	9.25	11.0	1.50	30.3	9.7	148	Silt_Loam
2	Leasburg	319403	3595406	13.66	700	10	1.80	1.60	D	7.90	6.40	8.19	9.8	1.39	9.2	12.9	124	Sandy_Loam
3	Leasburg	320378	3595214	13.66	700	70	1.60	0.70	S	7.76	5.37	7.80	9.3	1.63	10.1	9.2	141	Sandy_Loam
4	Leasburg	320496	3595193	13.66	700	60	1.20	0.70	S	7.82	6.81	6.94	8.2	2.62	8.2	8.8	210	Sandy_Loam
5	Leasburg	321704	3594857	13.66	700	75	0.90	0.70	S	7.95	16.80	21.81	23.6	1.93	7.7	20.9	287	Loamy_Sand
6	Leasburg	322266	3593903	13.66	700	80	1.00	0.70	S	8.05	8.91	17.38	19.6	0.95	10.6	12.5	223	Loamy_Sand
7	Leasburg	322266	3593903	13.66	700	60	1.40	1.00	S	7.74	13.90	16.90	19.1	1.21	14.4	9.3	160	Sandy_Loam
8	Leasburg	322266	3593903	13.66	700	60	1.90	1.10	S	7.73	13.70	18.58	20.7	1.39	17.8	13.1	152	Sand
9	Leasburg	322357	3593615	13.66	700	60	1.40	0.60	S	7.98	4.88	8.47	10.1	1.32	8.6	7.8	180	Loamy_Sand
10	Leasburg	322514	3593149	13.66	700	60	.	0.70	.	7.71	3.82	3.65	4.0	2.41	10.4	7.4	110	Sand
11	Leasburg	322672	3592678	13.66	700	25	1.30	1.05	S	7.85	7.31	6.52	7.7	1.55	5.6	5.7	133	Sandy_Loam
12	Leasburg	322783	3592376	13.66	700	30	2.25	0.45	D	7.81	2.89	2.43	2.3	2.06	7.3	11.9	110	Sand
13	Leasburg	323364	3591614	13.66	700	30	1.90	0.60	S	7.90	2.48	3.11	3.2	1.41	4.7	5.5	59	Sand
14	Leasburg	323861	3590905	13.66	700	30	1.70	1.40	D	7.78	2.31	3.32	3.5	2.29	6.1	6.0	59	Sandy_Loam
15	Leasburg	324276	3590313	13.66	700	8	1.30	0.60	S	7.84	3.08	3.99	4.4	3.51	4.2	8.9	77	Sandy_Loam
16	Leasburg	324276	3590313	13.66	700	60	1.40	0.80	S	7.59	9.05	11.83	13.9	2.09	10.8	62.5	191	Loamy_Sand
17	Leasburg	324372	3590182	13.66	700	50	1.05	0.70	.	7.75	6.54	6.95	8.2	1.48	3.2	5.9	121	Sand
18	Leasburg	324463	3590048	13.66	700	35	0.80	0.40	S	8.02	10.20	11.71	13.8	1.20	5.4	9.0	123	Loamy_Sand
19	Leasburg	324563	3589906	13.66	700	20	1.00	0.53	S	8.29	3.57	7.85	9.4	0.59	2.5	7.8	112	Loamy_Sand
20	Leasburg	325402	3588708	13.66	700	30	1.30	0.70	S	7.65	10.40	10.32	12.2	2.50	1.2	8.5	171	Sandy_Loam
21	Leasburg	326407	3586893	13.66	700	19	1.30	0.60	S	7.87	7.34	6.13	7.2	1.08	1.6	28.1	224	Sand
22	Leasburg	326755	3586181	13.66	700	17	1.00	0.50	S	8.12	8.48	12.60	14.8	0.66	2.6	7.3	277	Loamy_Sand
23	Leasburg	326916	3585848	13.66	700	60	1.10	0.50	D	8.03	3.80	5.88	6.9	1.58	2.1	8.3	114	Sandy_Loam
24	Leasburg	327536	3584762	13.66	700	45	1.20	0.70	.	8.16	2.87	4.71	5.4	1.26	4.1	10.6	79	Sandy_Loam
25	Leasburg	327878	3584421	13.66	700	30	1.00	0.50	D	7.48	16.70	12.31	14.4	0.44	21.4	9.0	151	Sand
26	Leasburg	327878	3584421	13.66	700	62	1.80	1.20	S	7.70	8.63	14.32	16.6	0.78	8.2	9.3	89	Sandy_Loam
27	Leasburg	328877	3582473	13.66	700	60	0.90	0.63	D	7.91	5.71	12.70	14.9	2.46	7.9	12.2	124	SandyC_L
28	Leasburg	329126	3581698	13.66	700	80	0.90	0.80	S	7.92	5.89	13.08	15.3	1.74	7.8	6.8	87	Loamy_Sand
29	Leasburg	329163	3581561	13.66	700	55	1.25	1.00	D	7.81	14.20	20.00	22.0	2.02	14.5	44.1	312	SandyC_L
30	Leasburg	329211	3581397	13.66	700	60	1.00	0.70	S	7.94	12.40	21.54	23.4	1.93	4.1	28.8	304	Sandy_Loam
31	Leasburg	329256	3581247	13.66	700	90	1.00	0.70	D	8.12	9.58	23.02	24.6	1.89	9.3	7.9	187	Silty_Clay
32	Leasburg	329956	3580058	13.66	700	35	0.90	0.50	.	7.70	1.63	3.67	4.0	1.45	10.8	8.3	37	Loamy_Sand
33	Leasburg	330056	3579926	13.66	700	30	1.00	0.40	D	8.05	5.70	14.11	16.4	0.18	10.3	2.0	38	Silt_Loam
34	Leasburg	330056	3579926	13.66	700	55	0.75	1.40	S	7.80	2.37	4.58	5.2	0.77	14.9	12.7	33	Clay_Loam
35	Leasburg	330149	3579806	13.66	700	50	1.10	0.60	D	8.00	7.94	12.83	15.0	0.81	8.8	6.3	125	Silt_C_L
36	Leasburg	330149	3579806	13.66	700	50	.	.	S	7.52	3.61	3.61	3.9	1.10	16.8	13.5	81	Sand
37	Leasburg	330220	3579646	13.66	700	50	1.20	0.68	D	7.83	5.77	8.01	9.5	1.86	11.7	7.6	147	Silt_Loam
38	Arguellaes	319729	3595097	0.55	20	30	1.30	0.00	S	7.78	1.27	2.69	2.6	1.94	30.2	11.6	34	Clay_Loam
39	Arguellaes	319834	3594987	0.55	20	50	1.40	0.00	S	7.91	0.90	2.83	2.8	1.69	21.2	8.0	30	Silty_Clay
42	Kerr	322201	3592645	0.60	30	35	1.40	0.68	D	7.83	2.71	5.05	5.8	0.94	14.9	7.2	45	Sandy_Loam
43	American_Bend	322701	3592513	2.19	50	45	1.50	0.30	S	7.64	1.37	2.72	2.7	0.61	9.1	4.0	23	Sand

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Sample #	Lateral	Latitude	Longitude	Length (mi)	Recom Capacity	Bank Angle	Canal Depth	Water Depth	Opposite Bank	pH of Soil Saturation Paste	EC of Soil Paste Ext mmhos/cm	Sodium Adsorption Ratio (SAR)	Calculated Exchangeable Na %ESP	Organic Matter (percent)	NO3 -N 1:5 (Soil water) extract (ppm)	NaHC3 extracted P (ppm)	K 1:5 (soil:water) Extract (ppm)	Texture by feel
44	American_Bend	322665	3592356	2.19	50	30	1.30	0.10	S	7.69	2.16	3.52	3.8	1.51	19.2	10.9	32	Silt_Loam
45	American_Bend	322956	3591604	2.19	50	45	1.80	0.15	S	7.75	1.07	2.78	2.8	1.17	17.1	6.6	28	Silt_Loam
46	American_Bend	323391	3590979	2.19	50	60	1.40	0.13	S	7.73	1.16	2.69	2.6	2.02	14.4	10.4	26	Silty_Clay
47	American_Bend	323488	3590677	2.19	50	45	1.80	0.10	S	7.65	1.49	2.73	2.7	1.16	15.1	9.2	30	Silt_C_L
48	American_Bend	323565	3590369	2.19	50	40	1.80	0.20	D	7.80	1.13	2.70	2.6	1.84	11.3	12.6	32	Silt_C_L
49	Hare	322539	3591772	0.40	25	20	1.10	0.20	S	8.15	0.82	3.53	3.8	1.90	10.5	11.6	26	Clay_Loam
50	Arrington	323275	3590740	0.47	25	25	1.40	0.20	D	7.92	1.17	2.92	3.0	2.01	11.6	10.0	33	Clay_Loam
51	Hill	325082	3588272	2.72	40	30	1.50	.	S	7.95	1.06	2.97	3.0	1.44	8.9	13.5	29	Silt_C_L
52	Hill	325148	3588150	2.72	40	35	1.70	.	S	7.89	1.20	3.13	3.2	1.13	7.1	12.1	28	Silt_C_L
53	Hill	325225	3588007	2.72	40	25	2.00	0.00	D	7.82	1.41	2.89	2.9	1.69	10.4	16.6	31	Silt_C_L
54	Hill	325272	3587825	2.72	40	20	1.70	0.00	S	7.85	1.47	3.04	3.1	1.47	9.9	13.0	34	Silt_C_L
55	Hill	325292	3587687	2.72	40	30	1.50	0.00	S	8.02	2.17	3.98	4.4	1.31	25.3	19.1	59	Silt_C_L
56	Hill	325044	3586607	2.72	40	40	1.55	0.00	D	7.93	1.08	3.30	3.5	1.82	9.2	15.2	31	Clay_Loam
57	Hill	325004	3585974	2.72	40	30	1.20	0.00	S	7.95	1.12	3.26	3.4	2.00	13.6	20.6	32	Clay_Loam
58	Rio_Rancho	324982	3589293	0.47	20	35	1.60	0.10	S	8.08	1.02	3.18	3.3	1.76	8.6	14.1	34	Clay_Loam
59	Propeck	326764	3586866	0.37	20	30	1.20	0.00	S	7.99	1.13	3.03	3.1	2.27	16.8	21.2	37	Clay_Loam
60	Dona_Ana	325192	3589454	6.26	75	.	1.80	0.40	S	7.88	2.67	4.54	5.2	0.58	5.3	9.6	53	Loamy_Sand
61	Dona_Ana	325192	3589454	6.26	75	30	1.20	0.06	S	7.60	3.36	3.06	3.2	0.38	37.5	5.4	29	Sand
62	Dona_Ana	326021	3588802	6.26	75	90	1.70	0.30	S	7.79	1.11	2.69	2.6	1.22	6.3	13.0	37	Sandy_Loam
63	Dona_Ana	326793	3587824	6.26	75	.	1.20	0.10	D	7.58	2.24	3.22	3.4	0.93	7.4	15.8	45	Sandy_Loam
64	Dona_Ana	327193	3587465	6.26	75	.	1.40	0.60	S	7.68	2.64	3.80	4.2	0.88	9.3	18.6	55	Sandy_Loam
65	Dona_Ana	327556	3587141	6.26	75	25	1.00	0.00	S	7.60	5.29	6.01	7.1	0.99	16.5	6.3	66	Sandy_Loam
66	Dona_Ana	328038	3586770	6.26	75	75	1.40	0.00	D	7.52	3.76	5.18	6.0	1.96	6.7	9.0	44	Sandy_Loam
67	Dona_Ana	328038	3586770	6.26	75	35	1.60	0.90	S	7.82	1.31	3.22	3.4	0.66	9.7	2.2	23	Sand
68	Dona_Ana	328211	3586141	6.26	75	30	2.00	0.20	D	7.77	7.41	3.78	4.1	1.55	57.6	27.7	349	Sand
69	Dona_Ana	328806	3585223	6.26	75	40	1.60	0.00	D	7.87	1.33	3.72	4.0	1.53	13.3	11.1	27	Clay
70	Dona_Ana	328966	3584770	6.26	75	75	1.50	0.00	S	7.72	15.60	17.42	19.6	1.39	103.6	17.4	199	Sandy_Loam
71	Dona_Ana	329217	3584378	6.26	75	30	1.40	0.10	D	7.63	5.06	2.61	2.5	0.42	25.1	6.0	20	Sand
72	Dona_Ana	329468	3583645	6.26	75	20	1.60	0.50	S	7.25	8.85	4.80	5.5	1.72	41.9	13.5	144	Sand
73	Dona_Ana	329680	3583218	6.26	75	20	1.30	0.05	S	7.78	5.22	6.04	7.1	1.01	36.7	12.4	64	Sandy_Loam
74	Dona_Ana	329768	3583049	6.26	75	30	1.60	0.00	S	7.81	2.98	5.03	5.8	1.58	12.4	9.5	37	Sandy_Loam
75	Dona_Ana	329655	3582474	6.26	75	20	1.30	0.00	S	7.69	11.70	10.11	12.0	2.03	71.9	16.2	164	SandyC_L
76	Dona_Ana	329383	3582307	6.26	75	10	1.00	0.00	S	7.58	9.63	4.54	5.2	1.36	157.3	12.3	124	SandyC_L
760	Dona_Ana	329383	3582307	6.26	75	10	1.00	0.00	S	7.62	8.86	8.06	9.6	1.95	65.8	20.0	181	Clay
77	Etajo	327945	3586107	0.54	25	50	1.00	0.00	D	7.77	4.79	5.26	6.1	1.36	14.3	3.4	42	Clay
78	Barrio	328885	3584631	0.49	25	70	2.00	0.00	S	7.76	1.18	1.46	0.9	1.38	14.7	9.3	33	Sand
79	Kelso	329762	3582298	0.76	25	30	1.60	0.00	D	8.00	1.87	5.14	5.9	1.13	6.3	5.4	27	Clay_Loam
80	Kelso	329968	3582015	0.76	25	40	1.40	0.00	D	7.73	1.95	1.52	1.0	1.11	40.4	10.0	65	Sandy_Loam
81	Taylor	328421	3582779	2.38	40	30	1.00	0.10	.	7.81	10.00	9.82	11.7	1.31	56.8	18.4	162	Sand
82	Taylor	328090	3582434	2.38	40	30	1.30	0.50	D	7.64	1.67	3.15	3.3	2.17	9.1	20.1	39	SandyC_L
83	Taylor	328090	3582434	2.38	40	15	1.40	0.10	D	7.59	1.53	2.55	2.4	2.79	29.1	12.4	25	Clay_Loam

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84	Taylor	327996	3582332	2.38	40	.	1.70	0.50	.	7.86	2.01	3.75	4.1	2.11	26.4	16.1	42	Clay
85	Taylor	327772	3581691	2.38	40	20	1.30	0.80	S	7.78	6.27	6.07	7.1	2.09	52.2	34.4	138	Sandy_Loam
86	Taylor	327735	3581410	2.38	40	40	1.60	0.20	S	7.55	13.20	10.96	13.0	1.90	128.7	25.7	131	Sandy_Loam
860	Taylor	327735	3581410	2.38	40	90	1.80	0.10	D	7.68	0.93	2.35	2.2	1.03	6.6	5.0	22	Clay
87	Taylor	327638	3581170	2.38	40	25	1.10	0.05	.	7.68	4.81	3.08	3.2	1.67	50.4	24.9	227	Sandy_Loam
88	Cooney	328882	3581106	0.33	20	20	1.20	0.00	S	7.64	1.90	3.13	3.2	2.61	3.5	10.2	30	Sandy_Loam
89	Elwood	330361	3580768	1.03	30	20	1.40	0.20	S	8.08	6.96	12.39	14.5	1.16	15.0	14.8	97	SandyC_L
90	Elwood	330583	3580896	1.03	30	55	1.50	0.30	S	7.78	5.69	3.70	4.0	1.64	35.1	15.9	94	Clay
91	Elwood	330739	3580599	1.03	30	40	1.50	0.30	.	7.91	1.17	3.48	3.7	2.34	12.2	13.5	26	Clay_Loam
92	Crapps	329227	3580053	0.95	30	30	1.20	0.00	S	7.86	1.52	3.59	3.9	1.32	3.5	5.7	26	Clay_Loam
93	Crapps	329227	3580053	0.95	30	38	1.60	0.00	S	7.95	2.65	4.94	5.7	0.76	10.6	5.4	37	SandyC_L
94	Crapps	328824	3579699	0.95	30	30	1.25	0.60	S	7.71	4.28	2.42	2.3	1.44	23.3	16.2	49	SandyC_L
95	Las_Cruces	330262	3579539	13.72	160	45	1.30	0.60	S	7.73	9.25	13.78	16.0	2.00	4.7	11.6	197	Clay_Loam
96	Las_Cruces	330388	3579245	13.72	160	45	1.40	0.70	S	7.79	0.95	3.76	4.1	1.69	4.4	16.5	31	Sandy_Clay
97	Las_Cruces	330859	3578820	13.72	160	45	1.30	0.60	S	7.64	2.20	4.81	5.5	0.80	11.2	8.7	49	SandyC_L
98	Las_Cruces	331118	3578483	13.72	160	40	2.00	1.50	D	7.78	2.89	3.52	3.8	1.70	14.2	28.6	111	Sandy_Loam
99	Las_Cruces	331279	3577903	13.72	160	70	1.10	0.70	D	7.86	1.47	3.99	4.4	0.61	3.3	4.2	23	SandyC_L
100	Las_Cruces	331405	3577567	13.72	160	10	1.00	0.40	S	7.65	1.42	3.03	3.1	0.98	3.3	6.8	23	Sandy_Loam
101	Las_Cruces	331359	3576962	13.72	160	30	1.00	0.40	S	7.79	1.32	2.94	3.0	1.75	3.8	10.8	35	SandyC_L
102	Las_Cruces	331433	3576770	13.72	160	25	1.10	0.60	D	7.69	0.85	2.08	1.8	1.35	2.2	6.6	22	SandyC_L
103	Las_Cruces	331492	3575784	13.72	160	30	1.50	0.80	D	7.56	23.80	25.62	26.8	1.40	38.5	15.6	233	Clay_Loam
104	Las_Cruces	331422	3575672	13.72	160	40	1.40	0.90	D	7.49	20.10	19.27	21.4	1.58	12.4	17.3	234	Sandy_Clay
105	Las_Cruces	331548	3575140	13.72	160	40	1.50	0.60	D	8.24	5.11	20.33	22.3	0.80	2.6	2.7	33	Silty_Clay
106	Las_Cruces	331835	3574968	13.72	160	40	1.20	0.80	D	8.13	4.05	10.79	12.8	0.90	5.8	11.9	48	SandyC_L
107	Las_Cruces	332473	3574171	13.72	160	30	1.20	0.60	D	8.22	22.40	42.23	37.9	0.86	4.4	7.2	134	Sandy_Clay
108	Las_Cruces	332473	3574171	13.72	160	45	1.10	0.20	D	7.89	6.99	10.62	12.6	2.44	47.0	11.1	122	Sandy_Loam
109	Las_Cruces	332928	3574226	13.72	160	15	1.60	0.90	D	7.53	16.10	22.63	24.3	1.34	47.0	17.2	285	Sandy_Loam
110	Las_Cruces	333785	3573965	13.72	160	40	1.50	0.50	S	7.76	3.90	3.46	3.7	0.74	6.4	8.8	87	SandyC_L
111	Las_Cruces	333916	3573274	13.72	160	70	1.10	0.50	D	8.02	1.76	6.53	7.7	1.08	2.0	4.3	35	SandyC_L
112	Las_Cruces	333988	3572247	13.72	160	30	1.20	0.40	S	7.67	24.90	20.60	22.6	0.58	333.8	9.3	331	Loamy_Sand
113	Las_Cruces	334270	3572134	13.72	160	25	1.0	0.50	S	7.48	7.58	4.56	5.2	1.92	59.8	18.3	246	SandyC_L
114	Las_Cruces	335129	3570646	13.72	160	30	1.6	0.90	D	7.76	1.65	0.99	0.2	1.40	28.6	31.4	172	Loamy_Sand
115	Las_Cruces	335582	3570421	13.72	160	25	1.4	0.80	D	7.28	21.40	9.28	11.0	1.74	149.8	13.0	228	Loamy_Sand
116	Las_Cruces	335582	3570421	13.72	160	20	1.4	.55	S	7.48	1.42	1.18	0.5	2.14	9.1	47.7	132	Sand
117	Las_Cruces	335728	3570133	13.72	160	30	1.3	1.0	D	8.04	10.20	17.34	19.6	1.54	38.3	23.2	244	SandyC_L
118	Las_Cruces	335728	3570133	13.72	160	20	2	.1	S	7.65	0.84	1.89	1.5	1.73	4.2	11.8	20	Sandy_Loam
119	Las_Cruces	335749	3569661	13.72	160	35	1.2	0.8	S	7.77	2.47	1.96	1.6	0.43	12.7	4.0	38	Sand
120	Las_Cruces	336059	3568635	13.72	160	30	1.1	0.7	D	7.68	3.38	2.70	2.6	0.74	22.5	8.8	67	Loamy_Sand
121	Las_Cruces	336284	3568185	13.72	160	45	1.6	1.3	D	7.93	15.00	17.90	20.1	0.66	83.5	20.1	204	Loamy_Sand
122	Las_Cruces	336467	3567245	13.72	160	40	0.8	0.7	S	8.07	8.54	15.56	17.8	2.49	27.4	20.3	117	SandyC_L
123	Las_Cruces	336486	3567066	13.72	160	30	1.2	1.1	S	7.35	42.10	15.39	17.6	1.67	931.8	28.0	414	Clay_Loam

SOIL data from Rio Grande Basin Initiative Survey of Leasburg Canal System 2002-2006

Sample #	Lateral	Latitude	Longitude	Length (mi)	Recom Capacity	Bank Angle	Canal Depth	Water Depth	Opposite Bank	pH of Soil Saturation Paste	EC of Soil Paste Ext mmhos/cm	Sodium Adsorption Ratio (SAR)	Calculated Exchangeable Na %ESP	Organic Matter (percent)	NO3 -N 1:5 (Soil water) extract (ppm)	NaHC3 extracted P (ppm)	K 1:5 (soil:water) Extract (ppm)	Texture by feel
124	Las_Cruces	336486	3567066	13.72	160	85	2	0	S	7.58	3.33	2.59	2.5	2.09	27.6	26.7	74	Sand
125	Las_Cruces	336449	3566928	13.72	160	10	1.7	1.6	S	7.99	6.94	10.62	12.6	2.41	16.4	42.9	192	Clay
126	Las_Cruces	337232	3565704	13.72	160	55	1.7	1.5	S	7.45	35.50	16.58	18.8	1.45	354.9	15.1	167	SandyC_L
127	Las_Cruces	337532	3565122	13.72	160	40	1.4	0.7	S	7.74	6.87	5.63	6.6	0.92	61.4	6.8	52	Loamy_Sand
128	Las_Cruces	338354	3563545	13.72	160	40	1.2	0.4	D	7.58	6.57	4.60	5.2	1.88	83.4	31.2	232	Clay
129	Las_Cruces	338354	3563545	13.72	160	90	1.7	0	.	7.73	10.50	13.53	15.8	0.92	50.9	6.0	34	Sandy_Loam
130	Las_Cruces	338423	3563385	13.72	160	30	1.7	0.8	S	7.97	2.03	1.81	1.4	0.59	36.1	8.9	89	Sand
131	Las_Cruces	338587	3563066	13.72	160	40	1.6	1.1	S	7.84	4.51	6.75	8.0	0.76	27.5	9.0	67	Sandy_Loam
132	Anderson	330421	3579556	0.45	25	20	1.0	0.1	S	7.72	5.21	4.91	5.6	1.48	75.6	21.4	117	SandyC_L
133	Quensenberry	330389	3578370	1.74	20	40	1.2	0	S	7.84	2.03	3.21	3.4	1.20	28.5	11.5	32	SandyC_L
134	Quensenberry	330283	3578332	1.74	20	40	1.5	0	S	8.06	1.04	3.47	3.7	0.90	4.4	6.2	21	SandyC_L
135	Quensenberry	329823	3578217	1.74	20	40	1.5	0	S	7.77	1.41	2.45	2.3	1.81	4.0	9.1	25	Clay_Loam
136	Quensenberry	329674	3577786	1.74	20	26	1.3	0	S	7.82	0.92	2.59	2.5	1.80	18.2	12.5	20	Clay
137	Quensenberry	329761	3577255	1.74	20	50	1.2	0	S	7.73	1.68	3.54	3.8	1.41	22.8	10.9	24	Clay
138	Redd	330739	3578519	0.53	20	25	1.0	0	S	7.54	4.33	1.17	1.4	2.22	58.4	38.7	348	Loamy_Sand
148	Mayfield	331165	3576875	0.99	15	10	.8	0	D	7.63	1.28	1.77	1.3	2.76	5.8	23.4	65	Clay_Loam
153	Tortugas	333646	3571550	1.70	30	30	1.4	0.1	D	7.63	1.11	3.27	3.4	1.65	22.1	14.9	34	Clay_Loam
154	Tortugas	333484	3571301	1.70	30	30	1.0	0.1	S	7.85	0.94	3.66	4.0	2.20	5.6	4.0	38	Clay
155	Tortugas	333556	3571153	1.70	30	20	1.0	0.0	S	7.61	2.79	2.30	2.1	1.62	30.0	16.0	62	Clay_Loam
156	Tortugas	333643	3570904	1.70	30	30	1.3	0.0	S	7.52	3.71	2.14	1.9	1.62	57.5	22.8	124	Clay_Loam
157	Tortugas	333816	3570852	1.70	30	40	1.1	0.3	D	7.63	1.12	2.02	1.7	1.17	17.4	12.4	37	Clay_Loam
163	Apache	337607	3565672	2.79	50	35	1.30	0.40	S	8.01	3.49	7.92	9.4	0.80	17.5	3.5	23	Sandy_Loam
164	Apache	337753	3565674	2.79	50	60	1.30	0.50	D	7.98	11.40	18.24	20.4	0.74	15.5	2.6	32	Sandy_Loam
165	Apache	338385	3565662	2.79	50	40	1.20	0.50	D	7.88	4.44	5.09	5.9	1.16	79.3	10.9	59	Clay
166	Apache	339276	3564809	2.79	50	55	2.20	0.00	S	7.53	5.95	5.95	7.0	1.18	47.4	22.6	151	Sand
167	Apache	339711	3563612	2.79	50	25	1.80	0.00	S	7.83	1.25	3.68	4.0	1.82	5.0	18.8	45	Clay_Loam
168	Apache	339734	3563386	2.79	50	40	1.80	0.00	S	7.76	0.69	2.99	3.1	1.27	3.0	8.4	23	Clay
169	Apache	339745	3563256	2.79	50	55	2.00	0.00	S	7.76	0.69	2.89	2.9	1.39	4.6	10.6	32	Clay
170	Mesilla_Canal	329088	3580210	11.88	225	30	0.90	0.50	D	8.35	49.70	190.18	73.6	0.90	73.1	22.9	431	Loamy_Sand
1700	Mesilla_Canal	329088	3580210	11.88	225	30	2.00	0.70	D	7.64	1.79	2.51	2.4	1.30	4.4	7.9	29	Sandy_Loam
171	Mesilla_Canal	328512	3579585	11.88	225	50	1.50	0.80	D	8.05	10.50	15.76	18.0	0.93	7.7	15.2	321	SandyC_L
172	Mesilla_Canal	328578	3579270	11.88	225	.	1.20	0.60	D	8.03	11.20	18.87	21.0	0.02	5.0	11.5	93	Sand
173	Mesilla_Canal	328610	3578801	11.88	225	.	1.30	0.85	D	7.84	1.52	3.15	3.3	1.02	5.6	13.6	52	Sandy_Loam
174	Mesilla_Canal	328610	3578801	11.88	225	25	2.00	0.10	S	8.04	17.10	34.12	32.9	0.30	22.2	4.7	48	Sand
1740	Mesilla_Canal	328610	3578801	11.88	225	40	2.00	0.50	S	7.76	4.73	5.48	6.4	1.36	3.2	10.8	126	Sandy_Loam
175	Mesilla_Canal	328643	3576793	11.88	225	40	1.10	0.50	D	7.78	2.14	4.01	4.4	2.55	6.8	18.4	54	SandyC_L
176	Mesilla_Canal	328834	3575874	11.88	225	30	2.00	0.80	D	7.84	3.01	1.12	0.4	0.48	8.6	7.1	66	Sand
177	Mesilla_Canal	328834	3575874	11.88	225	30	2.00	0.40	S	7.79	0.93	4.09	4.6	1.54	4.4	6.1	30	SandyC_L
178	Mesilla_Canal	329848	3574184	11.88	225	30	1.00	0.60	D	7.84	2.49	4.66	5.3	2.52	9.2	18.5	74	Sandy_Loam
179	Mesilla_Canal	329848	3574015	11.88	225	25	1.20	0.70	D	7.80	2.02	4.38	4.9	1.52	6.8	14.3	53	Sandy_Loam
180	Mesilla_Canal	330217	3573750	11.88	225	10	1.10	0.40	S	7.75	1.63	2.98	3.0	1.76	5.0	15.8	51	Sandy_Loam

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Sample #	Lateral	Latitude	Longitude	Length (mi)	Recom Capacity	Bank Angle	Canal Depth	Water Depth	Opposite Bank	pH of Soil Saturation Paste	EC of Soil Paste Ext mmhos/cm	Sodium Adsorption Ratio (SAR)	Calculated Exchangeable Na %ESP	Organic Matter (percent)	NO3 -N 1:5 (Soil water) extract (ppm)	NaHC3 extracted P (ppm)	K 1:5 (soil:water) Extract (ppm)	Texture by feel
181	Mesilla_Canal	330301	3573447	11.88	225	30	1.60	0.60	D	8.28	40.00	172.62	71.7	1.05	50.2	29.3	479	Loamy_Sand
1810	Mesilla_Canal	330301	3573447	11.88	225	28	1.30	0.60	S	7.77	1.75	1.37	0.8	2.52	12.3	19.8	147	Sand
182	Mesilla_Canal	330454	3572754	11.88	225	20	2.00	0.20	D	7.34	8.03	4.47	5.1	3.88	36.7	37.0	228	Loamy_Sand
183	Mesilla_Canal	330636	3572369	11.88	225	40	1.30	0.10	D	7.74	5.80	6.10	7.2	2.81	22.0	30.3	292	Loamy_Sand
184	Mesilla_Canal	330729	3572236	11.88	225	25	1.40	0.05	S	7.40	12.70	4.69	5.4	2.13	102.3	20.6	195	Loamy_Sand
185	Mesilla_Canal	330866	3572146	11.88	225	40	1.55	0.70	.	7.88	1.04	3.13	3.2	0.97	5.1	15.9	47	Sandy_Loam
186	Mesilla_Canal	331118	3571742	11.88	225	40	1.70	0.05	D	7.85	1.52	0.74	0.0	0.67	16.8	11.9	128	Sand
187	Mesilla_Canal	331179	3571429	11.88	225	25	1.50	0.00	.	7.82	2.31	1.55	1.0	1.04	9.0	15.0	104	Sand
188	Mesilla_Canal	332127	3570019	11.88	225	20	1.30	0.35	D	7.66	1.87	3.07	3.2	1.99	5.6	22.8	51	Clay
189	Mesilla_Canal	332127	3570019	11.88	225	25	1.50	0.30	S	7.80	1.79	2.56	2.4	1.68	4.6	6.7	41	Sandy_Loam
190	Mesilla_Canal	332815	3569791	11.88	225	30	1.30	0.00	D	7.65	2.37	1.53	1.0	1.43	14.4	15.1	81	Sandy_Loam
191	Mesilla_Canal	332919	3569515	11.88	225	30	1.40	0.50	D	7.32	21.00	7.61	9.1	1.04	17.6	11.6	147	Sand
192	Mesilla_Canal	333047	3569223	11.88	225	20	1.30	0.40	S	7.56	9.38	4.52	5.1	1.54	41.2	20.9	193	Loamy_Sand
193	Mesilla_Canal	333365	3568715	11.88	225	20	1.50	0.90	D	7.95	2.32	4.86	5.6	1.25	5.0	17.5	61	Loamy_Sand
194	Mesilla_Canal	333852	3568186	11.88	225	45	1.50	1.00	D	7.92	4.33	5.81	6.8	1.07	9.2	6.5	42	Loamy_Sand
195	Mesilla_Canal	334044	3567863	11.88	225	55	1.50	0.05	S	7.83	16.20	12.01	14.1	0.63	40.1	11.0	131	Sand
196	Mesilla_Canal	334044	3567863	11.88	225	30	2.20	0.20	S	7.67	0.90	2.56	2.5	1.15	3.9	5.2	20	Loam
197	Mesilla_Canal	334126	3567692	11.88	225	45	1.30	0.05	S	7.72	15.50	13.95	16.2	1.08	60.2	17.6	226	Sand
198	Mesilla_Canal	334330	3567270	11.88	225	25	1.20	0.00	S	8.06	6.43	10.79	12.8	0.82	7.4	8.4	68	Sandy_Loam
199	Mesilla_Canal	334775	3566742	11.88	225	20	1.20	0.00	D	8.07	2.21	4.71	5.4	0.80	9.2	6.7	37	Sand
200	Mesilla_Canal	334898	3566611	11.88	225	35	1.50	0.00	S	7.62	1.52	1.33	0.7	1.26	7.9	7.8	47	Sand
201	Mesilla_Canal	335609	3565828	11.88	225	40	1.20	0.00	S	7.91	3.39	4.63	5.3	1.11	3.2	6.6	45	Loamy_Sand
208	Clark	328555	3572866	1.40	60	40	1.50	0.05	D	7.64	1.21	2.04	1.7	1.83	10.7	12.5	30	SandyC_L
209	Clark	328411	3572797	1.40	60	30	1.40	0.50	S	7.74	2.90	2.17	1.9	1.40	51.5	22.2	125	Sand
210	Clark	331489	3572204	1.40	60	30	1.50	0.80	S	7.85	0.92	2.52	2.4	0.73	7.3	6.8	31	Loamy_Sand
211	Laguna	331904	3571850	3.75	90	20	1.80	1.00	S	7.54	1.61	2.49	2.4	1.03	18.7	8.7	27	SandyC_L
213	Laguna	332453	3572034	3.75	90	10	1.20	1.20	D	7.97	1.37	3.56	3.8	0.39	5.5	8.0	26	Sand
214	Laguna	332577	3571933	3.75	90	50	0.90	0.50	D	7.93	10.60	29.77	29.9	2.19	40.7	42.6	118	Sandy_Loam
215	Laguna	332647	3571685	3.75	90	50	1.20	0.70	S	7.70	1.80	3.02	3.1	0.80	10.8	4.6	23	SandyC_L
216	Laguna	332341	3571403	3.75	90	20	1.20	0.70	S	7.58	7.13	5.58	6.5	1.12	55.4	12.1	86	Loamy_Sand
218	Laguna	332427	3570896	3.75	90	30	1.30	0.70	D	7.68	1.39	2.53	2.4	2.34	11.5	18.6	27	SandyC_L
219	Laguna	332781	3570548	3.75	90	20	1.10	0.60	S	7.56	4.15	3.38	3.6	0.78	38.9	6.5	61	Loamy_Sand
220	Laguna	331825	3572396	3.75	90	30	1.00	0.80	S	7.67	1.74	3.08	3.2	1.77	28.8	12.6	48	SandyC_L
221	Gillen	332353	3572746	1.39	30	20	1.20	0.00	S	7.80	1.10	2.43	2.3	1.38	2.8	10.0	29	SandyC_L
222	Gillen	332926	3573089	1.39	30	10	1.40	0.00	S	7.62	1.40	2.22	2.0	1.80	12.7	10.1	23	SandyC_L
223	Gillen	331735	3570224	1.39	30	20	1.20	0.00	S	7.59	0.93	0.84	0.0	0.56	6.2	9.7	86	Loamy_Sand
228	Louisiana	331810	3569896	2.86	60	30	1.40	0.70	S	7.89	0.64	2.59	2.5	1.08	6.9	7.8	21	Clay
229	Louisiana	332253	3568897	2.86	60	30	1.20	0.70	S	7.36	19.70	14.37	16.6	1.51	182.1	18.5	266	Sandy_Loam
230	Louisiana	332359	3568721	2.86	60	30	1.30	0.80	S	7.85	3.07	5.15	6.0	0.76	52.4	12.1	66	Loamy_Sand
231	Louisiana	332883	3567901	2.86	60	40	1.00	0.40	D	7.91	1.01	2.45	2.3	1.93	4.5	9.1	26	Sandy_Loam
232	Louisiana	332816	3567765	2.86	60	45	1.00	0.20	S	8.12	1.23	2.89	2.9	1.11	4.1	8.6	29	Sandy_Loam

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233	Louisiana	332737	3567480	2.86	60	35	1.10	0.30	D	8.14	1.18	2.98	3.0	1.14	3.9	10.5	34	SandyC_L
235	Lester	330607	3572127	0.34	25	10	1.40	0.10	S	8.10	0.83	2.90	2.9	1.02	6.7	9.0	33	Sandy_Loam
236	California	330511	3571999	3.38	90	20	1.50	0.60	S	7.74	12.10	17.97	20.2	0.46	11.8	7.5	77	Loamy_Sand
237	California	330156	3571135	3.38	90	65	1.30	1.60	D	7.46	6.13	3.70	4.0	0.55	5.6	7.7	58	Loamy_Sand
238	California	332190	3568644	3.38	90	65	1.20	0.90	S	7.47	7.24	3.18	3.3	1.50	41.0	20.9	133	SandyC_L
248	Goering	334793	3567437	0.51	25	25	1.20	0.60	S	8.12	1.24	2.27	2.0	1.69	5.4	20.0	40	SandyC_L
249	Williams	335314	3567262	0.70	30	35	1.10	0.50	S	7.80	2.07	3.51	3.8	1.81	36.2	14.8	51	Clay
250	Williams	336406	3565691	0.70	30	45	1.10	0.70	S	7.79	0.90	2.95	3.0	1.66	10.4	9.8	24	Sandy_Clay
251	Middle	336689	3565154	2.01	60	40	2.40	0.30	S	7.76	1.20	2.88	2.9	1.41	10.5	11.3	43	Sandy_Loam
253	Middle	337128	3564302	2.01	60	25	1.20	0.00	S	7.80	1.10	2.81	2.8	1.13	4.3	8.0	26	Sandy_Loam
254	Middle	337199	3564157	2.01	60	50	1.10	0.10	D	7.88	1.26	2.93	3.0	1.60	4.2	20.2	49	Clay
255	Middle	335342	3565627	2.01	60	30	1.20	0.10	S	7.87	1.18	2.70	2.6	1.78	3.9	13.4	31	Clay
256	Freudenthal	335342	3565627	0.33	30	15	1.20	0.40	D	7.77	1.87	3.54	3.8	1.73	4.7	16.0	34	Clay
257	Picacho_Main	326284	3586734	10.67	150	45	1.45	0.10	S	7.61	15.40	9.37	11.2	0.55	94.3	7.1	93	Loamy_Sand
258	Picacho_Main	326382	3585733	10.67	150	30	1.50	0.60	S	7.60	11.90	7.30	8.7	0.96	24.9	9.3	157	Sand
259	Picacho_Main	326346	3585147	10.67	150	30	1.50	0.60	S	7.70	7.16	5.66	6.6	1.85	19.0	19.5	185	Loamy_Sand
260	Picacho_Main	326274	3585010	10.67	150	10	1.40	0.60	S	7.78	17.10	23.97	25.4	2.65	23.3	44.4	507	Sand
261	Picacho_Main	325364	3583465	10.67	150	90	1.50	1.20	D	7.53	2.66	3.89	4.3	3.56	5.1	12.2	38	Clay
263	Picacho_Main	325517	3583302	10.67	150	90	1.75	1.40	S	7.75	19.80	35.78	34.0	2.02	26.3	13.5	205	SandyC_L
265	Picacho_Main	326037	3582741	10.67	150	20	2.00	0.40	S	7.59	3.96	4.92	5.6	1.89	6.6	9.8	44	Clay_Loam
267	Picacho_Main	326216	3582544	10.67	150	20	1.50	0.60	S	7.65	2.35	2.68	2.6	3.65	26.8	29.6	76	SandyC_L
268	Picacho_Main	326357	3581906	10.67	150	90	2.10	1.00	S	7.77	30.90	32.16	31.6	0.89	56.8	8.3	182	Loamy_Sand
269	Picacho_Main	326289	3581762	10.67	150	90	2.10	1.00	S	7.65	39.90	43.07	38.4	1.34	49.3	11.1	253	Loamy_Sand
270	Picacho_Main	326044	3580579	10.67	150	10	1.20	0.75	S	7.73	34.00	43.12	38.4	1.14	27.2	15.1	162	Sandy_Loam
271	Picacho_Main	326069	3578665	10.67	150	25	1.50	0.80	.	7.61	13.50	9.49	11.3	1.35	45.7	15.2	191	Sandy_Loam
272	Picacho_Main	325904	3577460	10.67	150	10	1.30	0.75	S	7.81	6.39	4.86	5.6	2.36	25.8	42.7	337	Loamy_Sand
273	Picacho_Main	325964	3577329	10.67	150	10	1.10	0.80	S	7.47	8.09	3.67	4.0	3.27	12.4	36.4	324	Sandy_Loam
275	Picacho_Main	326140	3576857	10.67	150	10	1.10	0.20	S	7.58	1.95	3.13	3.2	4.27	10.6	10.5	46	SandyC_L
276	Picacho_Main	326468	3574092	10.67	150	90	2.00	0.04	S	7.97	1.14	2.20	1.9	1.31	10.6	10.5	58	Sandy_Loam
277	Picacho_Main	326722	3573543	10.67	150	30	1.40	0.30	.	7.61	8.82	9.06	10.8	1.05	32.6	22.6	124	Sandy_Loam
278	Picacho_Main	326777	3573356	10.67	150	30	1.40	0.20	S	7.87	14.30	15.50	17.8	0.91	64.4	13.8	186	Sandy_Loam
279	Picacho_Main	326864	3573075	10.67	150	25	1.30	0.40	S	7.98	3.81	8.16	9.7	0.92	6.0	9.8	47	Sandy_Loam
280	Picacho_Main	326958	3572772	10.67	150	30	1.30	0.01	D	7.86	21.30	23.68	25.2	0.56	65.8	6.9	65	Loamy_Sand
281	Picacho_Main	327138	3572422	10.67	150	90	1.50	0.01	S	7.22	32.70	16.67	18.9	1.87	715.2	44.9	361	Loamy_Sand
282	Picacho_Main	327287	3572207	10.67	150	18	1.40	0.00	D	7.74	15.90	23.52	25.0	0.36	5.9	13.6	162	Loamy_Sand
283	Picacho_Main	327561	3571773	10.67	150	20	1.10	0.00	S	7.30	38.60	25.49	26.6	2.34	1035.2	31.6	296	Sandy_Loam
284	Picacho_Main	327629	3571669	10.67	150	30	1.20	0.00	S	7.36	20.20	10.52	12.5	1.56	110.9	18.9	142	Silt_Loam
285	Picacho_A	326350	3579624	1.90	30	25	1.50	0.30	S	7.66	2.67	4.19	4.7	2.03	19.8	21.2	76	SandyC_L
286	Picacho_A	327086	3579288	1.90	30	25	2.40	0.00	S	7.81	3.65	4.42	5.0	1.49	35.0	18.0	94	SandyC_L
287	Picacho_A	327004	3578651	1.90	30	20	1.30	0.00	S	7.76	6.95	7.75	9.2	1.38	10.6	7.8	39	Sand
288	Picacho_A	326983	3578335	1.90	30	40	1.10	0.00	S	8.12	2.23	4.37	4.9	1.62	7.6	8.7	38	Clay

SOIL data from Rio Grande Basin Initiative Survey of Leasburg Canal System 2002-2006

Sample #	Lateral	Latitude	Longitude	Length (mi)	Recom Capacity	Bank Angle	Canal Depth	Water Depth	Opposite Bank	pH of Soil Saturation Paste	EC of Soil Paste Ext mmhos/cm	Sodium Adsorption Ratio (SAR)	Calculated Exchangeable Na %ESP	Organic Matter (percent)	NO3 -N 1:5 (Soil water) extract (ppm)	NaHC3 extracted P (ppm)	K 1:5 (soil:water) Extract (ppm)	Texture by feel
289	Picacho_A	327029	3577698	1.90	30	25	1.30	0.10	S	7.46	2.11	2.80	2.8	2.13	3.8	14.5	34	Clay_Loam
290	Picacho_C	327021	3576565	2.35	30	30	1.50	0.90	S	7.97	2.03	3.84	4.2	1.68	6.0	12.0	35	Clay
291	Picacho_C	327177	3576496	2.35	30	25	1.40	0.95	D	7.70	6.05	6.13	7.2	1.59	29.0	21.0	116	SandyC_L
292	Picacho_C	327569	3576317	2.35	30	30	1.80	0.80	D	7.49	6.73	3.74	4.1	2.09	62.4	31.7	143	Clay
296	School	327132	3575410	0.93	30	20	1.10	0.80	S	7.34	31.30	20.32	22.3	1.24	402.3	19.0	186	Silt_Loam
297	School	327211	3575284	0.93	30	10	1.30	1.00	D	7.65	11.00	8.93	10.6	2.30	105.5	39.1	236	Clay