

Table 7. Soils data from Happy Valley releves.

Plot #	Sample ID #	Horizon	pH (paste)	mmhos/cm E. C.	Lime Est.	% O. M.	-----ppm-----						Cu
							NO ₃ -N	P	NH ₄ HCO ₃ -K	DTPA Extract-Zn	Fe	Mn	
HV-1	S-68	Oa	7.3	0.6	L	38.1	2	15.6	64.6	27.8	180.1	30.2	4.4
HV-1	S-69	B	8.0	0.3	H	2.7	1	<0.2	5.9	0.8	61.8	6.2	4.3
HV-2	S-70	Oa	7.2	0.8	L	42.2	2	14.2	131.4	38.5	50.7	21.4	3.2
HV-2	S-71	B	8.0	0.4	H	3.6	1	1.8	12.3	1.2	36.4	4.5	3.7
HV-3	S-72	Oi	6.8	0.3	L	39.2	3	8.4	4.3	16.3	871.7	136.4	10.1
HV-4	S-73	Oe	5.9	0.6	L	35.5	10	17.2	156.9	78.5	793.8	398.6	5.7
HV-4	S-74	A1	6.2	0.4	L	23.1	5	1.2	61.9	28.1	266.8	160.1	4.6
HV-4	S-75	A2	7.3	0.6	M	14.0	3	2.5	30.2	8.4	137.6	46.1	4.3
HV-4	S-76	B	7.5	0.7	M	9.4	2	0.9	26.4	5.1	126.3	16.1	3.7
HV-4	S-77	C	7.5	0.6	M	8.3	<1	<0.2	16.5	3.1	131.9	15.9	2.9
HV-5	S-78	Oi	6.0	0.6	L	50.9	4	19.6	448.7	118.5	384.9	310.2	6.4
HV-5	S-79	Oe	6.3	0.6	L	52.0	2	2.4	177.9	78.3	377.2	456.2	4.5
HV-5	S-80	A	7.0	0.7	L	55.0	4	3.6	123.4	62.5	267.0	171.3	5.5
HV-5	S-81	B	7.9	0.4	H	8.6	<1	<0.2	23.7	3.4	104.9	10.0	11.2
HV-6	S-82	Oa	7.2	0.8	L	26.2	<1	4.2	108.6	13.5	157.5	40.8	5.1
HV-6	S-83	A	7.2	0.6	M	32.0	4	1.2	77.8	11.9	181.5	32.2	7.7
HV-6	S-84	IIOa	7.3	0.7	L	38.2	4	1.2	89.4	11.9	276.5	41.7	6.2
HV-6	S-85	IIB	7.5	0.6	M	7.8	<1	<0.2	20.5	2.0	51.9	11.8	4.2
HV-7	S-86	C	8.1	0.3	H	1.3	1	<0.2	18.3	1.2	28.9	2.7	2.5
HV-8	S-87	C	8.1	0.4	H	1.5	1	<0.2	19.5	1.3	28.4	3.2	2.2
HV-9	S-88	Oe	7.0	0.7	L	78.2	17	62.0	118.2	45.0	484.8	237.0	6.3
HV-9	S-89	A1	7.9	0.4	H	2.0	1	1.8	15.6	1.0	26.7	12.9	4.0
HV-9	S-90	A2	7.8	0.4	M	10.2	1	<0.2	20.8	2.2	84.3	10.7	11.9
HV-10	S-91	Oa	6.8	0.8	L	59.6	4	15.6	197.3	77.1	99.7	59.3	5.1
HV-10	S-92	B1	7.3	0.6	M	10.1	2	<0.2	28.7	2.4	110.0	5.0	5.7
HV-10	S-93	B2	8.2	0.4	H	9.8	3	<0.2	18.5	0.9	95.2	10.0	6.1
HV-10	S-94	B3	8.1	0.4	H	3.7	<1	<0.2	19.5	0.5	36.6	2.6	2.5
HV-11	S-95	A	8.0	0.6	H	6.1	1	<0.2	44.1	1.7	85.0	10.4	6.2
HV-11	S-96	C2	8.0	0.4	H	5.4	1	<0.2	17.0	1.7	66.7	6.5	3.4
HV-12	S-97	Oe	6.5	0.4	L	69.4	18	25.0	40.0	28.1	2988.5	216.0	25.5
HV-12	S-98	O/B	6.2	0.6	L	18.9	2	<0.2	33.2	8.1	335.6	99.8	7.9
HV-13	S-99	Oa/B	6.3	0.4	L	24.8	2	11.5	96.9	7.3	380.9	34.9	5.3
HV-13	S-100	Oe	6.4	0.7	L	56.7	4	26.2	266.8	185.8	58.2	65.1	3.9
HV-13	S-101	Oa	6.5	0.6	L	44.0	4	9.2	114.2	11.3	316.5	38.9	4.4
HV-13	S-102	B	7.7	0.4	M	6.8	1	<0.2	62.5	2.5	87.5	7.9	10.5

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							NO ₃ -N	P	NH ₄ HCO ₃ -K	DTPA Zn	Extract Fe	Mn	Cu
HV-14	S-103	C	8.0	0.3	H	0.9	<1	<0.2	18.1	0.9	22.6	3.6	1.5
HV-15	S-104	Oi	6.5	0.8	L	78.6	<1	31.2	689.3	192.6	19.4	68.0	2.9
HV-15	S-105	Oe	6.7	0.7	L	39.6	2	5.6	213.8	81.3	51.6	41.2	3.5
HV-15	S-106	Oa/B	7.4	0.6	M	7.4	2	1.5	37.6	4.2	71.5	10.3	7.8
HV-15	S-107	B	7.8	0.6	M	4.6	<1	1.5	33.4	1.4	65.9	6.7	6.3
HV-16	S-108	C	8.0	0.3	H	1.2	<1	<0.2	22.2	1.5	30.1	4.2	2.7
HV-17	S-109	Oa	6.8	0.6	L	66.0	29	28.0	78.1	33.0	261.5	50.7	4.8
HV-17	S-110	A/B	7.1	0.6	M	7.2	2	0.3	27.7	2.2	163.8	5.4	5.7
HV-17	S-111	C	7.4	0.4	M	6.8	<1	<0.2	23.0	1.7	87.1	5.0	6.8
HV-18	S-112	Bw	7.9	0.6	H	2.9	<1	<0.2	18.7	2.5	87.0	6.8	6.4
HV-19	S-113	O/A	7.1	0.6	L	41.7	4	4.2	35.8	2.5	137.9	19.0	7.3
HV-19	S-114	C	7.1	0.6	M	5.2	2	<0.2	11.8	3.8	51.7	5.7	3.9
HV-20	S-115	Oi	4.7	0.4	L	84.4	30	121.0	734.6	59.0	138.1	490.8	5.6
HV-20	S-116	Oe	4.7	0.3	L	94.3	20	180.0	758.9	100.5	84.6	92.1	39.0
HV-20	S-117	Oa	5.2	0.3	L	85.1	27	15.0	152.2	33.9	4664.0	130.3	13.0
HV-20	S-118	Bs	5.2	0.3	L	7.4	NES*	2.4	31.6	18.3	1916.6	10.6	4.7
HV-20	S-119	Bw	5.2	0.4	L	7.1	NES*	<0.2	31.1	7.7	400.6	8.7	9.2
HV-21	S-120	Oi	5.5	0.4	L	80.5	40	6.0	993.9	63.4	340.5	175.4	11.8
HV-21	S-121	Oa	6.4	0.4	L	85.4	20	8.4	971.8	66.5	1038.5	418.8	22.8
HV-21	S-122	Bw	5.7	0.4	L	7.1	2	<0.2	64.9	7.3	375.9	10.3	11.2
HV-21	S-123	Oe	6.1	0.4	L	82.0	15	18.0	732.7	59.8	131.4	202.9	11.0
HV-22	S-124	Oa	5.6	0.3	L	67.6	20	6.0	74.1	10.1	1450.2	172.5	13.2
HV-22	S-125	A	5.7	0.3	L	26.8	14	3.0	<0.1	2.8	1638.0	76.2	10.7
HV-22	S-126	B	5.9	0.1	L	6.7	4	<0.2	11.8	0.9	305.3	3.0	5.6
HV-23	S-127	Oi	5.5	0.4	L	64.7	29	37.0	1100.5	34.4	110.0	47.1	9.2
HV-23	S-128	Oe	6.7	1.0	L	87.5	10	118.0	340.5	108.0	29.0	136.7	9.6
HV-23	S-129	Oa	6.7	0.6	L	80.5	27	29.6	29.8	34.7	59.4	67.1	10.8
HV-23	S-130	B	6.8	0.4	L	6.9	5	0.4	<0.1	2.1	314.7	7.5	11.4
HV-24	S-131	Oe	7.4	0.7	L	21.2	4	13.2	280.1	21.4	487.1	102.3	6.1
HV-24	S-132	A	7.0	0.4	L	7.2	<1	3.0	59.1	6.7	340.7	37.4	7.7
HV-25	S-133	Oe	5.5	0.6	L	40.0	5	10.0	442.1	38.9	1025.5	728.6	7.2
HV-25	S-134	A	5.1	0.3	L	7.4	3	1.2	82.1	7.7	611.8	168.2	5.9
HV-26	S-135	Oi	4.4	0.3	L	90.0	NES*	78.0					
HV-26	S-136	Oi2	4.5	0.3	L	90.9	<1	59.0	835.9	96.8	3106.0	620.7	8.4
HV-26	S-137	Oe	4.8	0.3	L	88.6	4	44.8	332.9	75.7	1541.2	49.4	14.9
HV-26	S-138	Bw	4.9	0.3	L	7.4	3	1.2	52.6	12.0	937.4	5.5	8.4

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							NO ₃ -N	P	NH ₄ HCO ₃ -DTPA Extract K	Zn	Fe	Mn	Cu
HV-27	S-139	Oi	3.5	0.3	L	68.9	30	131.0	1531.3	151.2	194.4	580.9	7.2
HV-27	S-140	Oi2	4.8	0.6	L	84.8	9	193.0	1776.0	73.5	95.8	460.1	8.0
HV-27	S-141	Oe	5.5	0.4	L	89.6	19	99.0	618.4	35.5	1136.4	684.0	10.3
HV-27	S-142	Oa	5.4	0.4	L	80.0	<1	14.8	269.6	55.5	1254.2	941.5	8.6
HV-27	S-143	Bw	4.8	0.3	L	7.1	<1	6.0	32.5	6.6	608.8	37.4	2.9
HV-28	S-144	Oi	5.1	0.3	L	81.8	8	140.0	986.0	89.9	360.0	249.0	8.4
HV-28	S-145	Oe	5.4	0.6	L	90.3	<1	124.0	794.0	74.4	932.0	446.0	10.0
HV-28	S-146	Oa	5.2	0.3	L	76.4	<1	11.2	163.0	21.2	1550.0	197.0	13.3
HV-28	S-147	B	5.2	0.1	L	7.1	1	0.6	38.0	8.2	535.0	16.4	4.2
HV-29	S-148	Oi	5.1	0.3	L	81.4	12	196.0	530.0	100.6	293.0	215.0	4.7
HV-29	S-149	Oe	5.3	0.6	L	85.7	6	66.0	547.8	45.1	596.2	587.2	10.8
HV-29	S-150	Oa	5.2	0.3	L	44.3	4	3.0	111.3	8.6	833.5	91.8	7.0
HV-29	S-151	Bw	5.2	0.3	L	5.5	5	5.0	99.7	8.3	818.4	92.7	7.3
HV-30	S-152	Oi1	4.3	0.4	L	83.1	8	187.0	1536.5	31.3	148.8	384.2	5.2
HV-30	S-153	Oi2	4.4	0.3	L	90.4	NES*	106.0					
HV-30	S-154	Oa	5.9	0.4	L	82.8	7	34.8	223.3	30.3	629.4	956.6	10.2
HV-30	S-155	Bw	5.8	0.4	L	7.4	2	<0.2	56.9	3.8	355.9	433.4	7.6
HV-31	S-156	Oi	5.8	0.4	L	NES*	7	53.0	791.8	140.4	32.7	195.0	10.2
HV-31	S-157	Oa	6.1	0.3	L	84.2	5	32.4	169.3	80.8	228.2	210.7	16.7
HV-31	S-158	Bw	6.0	0.3	L	5.3	2	1.2	33.8	3.6	255.4	16.3	2.8
HV-32	S-159	Oi	4.3	0.4	L	86.1	14	140.0	1509.7	182.4	502.3	500.1	5.5
HV-32	S-160	Oe	4.8	0.4	L	83.8	3	11.2	273.0	50.6	1841.4	984.2	8.0
HV-32	S-161	Bw	4.9	0.4	L	7.4	<1	1.8	50.1	7.8	893.5	62.8	6.7
HV-33	S-162	Oi	4.2	0.3	L	89.6	6	196.0	890.7	81.7	580.4	194.9	5.5
HV-33	S-163	Oe1	4.7	0.3	L	86.3	20	37.0	360.8	61.9	8084.1	224.3	7.1
HV-33	S-164	Oe2	4.7	0.3	L	90.1	30	43.0	350.4	22.6	4231.3	20.7	17.4
HV-33	S-165	Bw	5.1	0.3	L	7.5	4	0.6	26.4	6.0	724.5	7.0	5.9
HV-34	S-166	Oi	5.6	0.1	L	NES*	<1	127.0	573.3	92.4	2113.5	310.7	16.5
HV-34	S-167	Oa1	5.1	0.3	L	7.8	4	1.2	76.3	21.3	769.5	20.9	7.5
HV-34	S-168	Oa2	4.9	0.3	L	75.4	13	2.4	146.4	86.4	1665.9	47.5	26.6
HV-34	S-169	Bw	4.6	0.4	L	7.5	1	0.3	26.0	8.1	759.5	12.0	10.9
HV-35	S-170	Oi	4.3	0.6	L	85.8	6	109.0	2199.0	69.4	248.2	517.0	7.4
HV-35	S-171	Oe1	4.2	0.4	L	91.7	<1	124.0	1512.4	138.4	182.6	292.2	6.8
HV-35	S-172	Oe2	4.0	0.4	L	93.8	2	115.0	816.4	100.5	333.8	74.9	6.9
HV-35	S-173	Oa	4.8	0.3	L	78.7	29	16.0	224.9	29.2	6846.8	94.8	8.9
HV-35	S-174	Bw	4.8	0.3	L	7.5	4	2.4	47.3	7.8	1273.0	12.7	9.8

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							NO ₃ -N	P	NH ₄ HCO ₃ -DTPA K	Extract Zn	Fe	Mn	Cu
HV-36	S-175	Oi	5.0	0.4	L	81.7	10	87.0	653.0	228.9	1481.0	820.4	10.6
HV-36	S-176	Oe	5.3	0.3	L	76.3	1	3.1	180.0	71.3	3660.0	47.1	8.4
HV-36	S-177	IIOi	5.2	0.1	L	72.8	24	37.0		-----NES*-----			
HV-36	S-178	IIOe	5.0	0.3	L	29.1	1	1.8	82.9	11.2	906.8	16.8	18.2
HV-36	S-179	IIA	4.8	0.4	L	7.5	4	3.6	50.6	15.3	724.2	18.1	10.7
HV-37	S-180	Oi	4.9	0.3	L	78.8	NES*	65.0		-----NES*-----			
HV-37	S-181	Oe	5.1	0.3	L	75.4	30	34.0	196.0	74.1	4000.4	122.2	20.1
HV-37	S-182	Oa	4.9	0.3	L	59.7	<1	13.6	71.5	34.6	2105.7	26.1	13.4
HV-37	S-183	Bw	4.8	0.3	L	7.4	<1	1.2	19.3	8.9	911.1	14.3	12.1
HV-38	S-184	Oi1	4.5	0.4	L	84.2	19	115.0	466.0	102.5	2481.1	301.9	7.5
HV-38	S-185	Oi2	4.2	0.3	L	92.1	6	134.0	1298.4	132.5	777.6	322.1	10.6
HV-38	S-186	Oe	5.0	0.4	L	83.9	15	8.4	299.0	64.5	3320.0	527.0	7.8
HV-38	S-187	Oa	4.9	0.3	L	70.9	3	10.4	194.5	16.3	2193.8	36.7	13.6
HV-38	S-188	Bw	4.6	0.6	L	7.7	2	9.8	40.3	9.4	769.1	10.7	9.0
HV-39	S-189	Oi	4.8	0.3	L	75.2				-----NES*-----			
HV-39	S-190	Oe	4.8	0.3	L	81.7	<1	84.0	175.0	44.7	3340.0	46.2	19.8
HV-39	S-191	Bw	4.7	0.3	L	7.2	<1	1.5	18.8	6.5	571.0	5.8	4.7
HV-40	S-192	Oi	4.1	0.3	L	85.7	<1	112.0	384.0	51.6	668.0	112.0	6.4
HV-40	S-193	Oe	4.3	0.3	L	89.3	4	71.0	577.0	63.5	1890.0	95.1	10.0
HV-40	S-194	Oa	4.6	0.3	L	65.7	45	21.0	57.7	55.0	9580.0	212.0	18.4
HV-40	S-195	IIOe	4.8	0.3	L	85.7	10	40.0	102.0	64.9	6920.0	48.6	21.0
HV-40	S-196	IIA	4.6	0.3	L	21.8	5	3.0	28.8	7.9	1272.0	15.3	8.4
HV-41	S-197	Bw	4.9	0.3	L	7.6	<1	1.8	25.6	5.8	574.0	25.4	5.5
HV-42	S-198	Oi	4.8	0.6	L	66.7	30	49.0	1250.0	35.1	230.0	191.0	5.7
HV-42	S-199	Oe	6.4	0.4	L	84.1	30	62.0	460.0	28.2	109.0	63.9	8.0
HV-42	S-200	Oa	5.9	0.3	L	70.7	13	28.4	257.2	47.5	726.2	405.6	19.6
HV-42	S-201	Bw	5.8	0.3	L	10.1	3	0.9	60.3	1.4	328.6	45.3	5.2
HV-43	S-202	Oe	5.7	0.7	L	39.2	10	19.6	762.4	120.2	798.0	445.0	8.6
HV-43	S-203	Oa	5.1	0.4	L	81.7	20	49.6	298.3	31.3	509.4	83.0	9.3
HV-43	S-204	A	5.2	0.3	L	16.2	13	4.2	104.2	13.6	471.3	274.3	4.2
HV-44	S-205	Oi2	6.8	0.8	L	71.9	54	68.0	1085.7	73.9	100.3	167.6	4.9
HV-44	S-206	Oe	6.3	1.1	L	86.2	63	168.0	1540.0	121.1	31.0	300.3	10.4
HV-44	S-207	Oa	6.1	0.6	L	62.1	34	56.0	447.5	43.5	499.0	214.8	21.2
HV-44	S-208	Bw	6.7	0.6	L	12.1	2	2.5	100.8	5.9	255.2	76.5	19.2
HV-45	S-209	Oi	7.1	0.3	L	75.4	21	115.0	857.1	47.0	83.4	153.5	6.4
HV-45	S-210	Oa	6.9	0.1	L	62.7	4	48.4	360.0	31.8	88.9	117.5	15.5

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HV-45	S-211	Bw	7.0	0.4	L	2.6	4	0.6	54.2	2.9	96.3	10.2	6.4
HV-46	S-212	Oi	5.4	0.3	L	84.0	33	34.0	312.3	71.4	2933.2	95.5	16.8
HV-47	S-213	Oi1	4.9	0.6	L	79.3	42	40.0	682.1	162.2	5241.4	110.2	10.0
HV-47	S-214	Oi2	4.7	0.1	L	73.3	26	15.0	23.1	39.6	2794.9	28.8	13.3
HV-47	S-215	Oe	4.8	0.3	L	56.2	11	3.6	7.8	49.6	1994.7	54.0	15.3
HV-48	S-216	Oi	5.0	0.3	L	84.2	27	15.0	18.7	71.0	3999.4	170.3	15.7
HV-49	S-217	Oi	4.4	0.3	L	90.0	40	31.0	229.0	23.3	1370.0	295.0	5.2
HV-49	S-218	Oe	5.2	0.4	L	92.1	30	87.0	243.0	62.2	2850.0	104.0	6.7
HV-50	S-219	Oi1	5.0	0.3	L	90.9	30	71.0	216.0	53.2	4580.0	81.5	5.0
HV-50	S-220	Oi2	4.8	0.1	L	90.9	28	16.0	327.9	78.2	4385.7	136.3	21.4
HV-51	S-221	Oi	5.3	0.1	L	85.1	50	40.0	130.0	50.3	3080.0	33.0	8.0
HV-52	S-222	Oe1	4.8	0.4	L	89.5	14	31.0	1045.4	55.4	5533.1	535.8	11.6
HV-52	S-223	Oe2	4.7	0.3	L	89.7	23	25.0	349.7	26.6	4479.9	76.3	23.1
HV-52	S-224	Oa	4.9	0.3	L	62.9	8	12.4	94.6	32.3	2994.5	38.2	38.0
HV-52	S-225	C	4.6	0.3	L	6.9	2	1.2	11.0	6.1	366.1	9.0	7.5
HV-53	S-226	Oi	4.8	0.4	L	90.0	50	84.0	810.0	118.9	3747.9	237.0	11.0
HV-53	S-227	Oe	4.6	0.3	L	91.7							
HV-53	S-228	Oa	4.9	0.3	L	75.2	22	14.8	326.1	19.1	2896.3	33.9	32.3
HV-53	S-229	C	4.6	0.3	L	9.8	5	0.6	15.3	3.7	377.5	10.2	10.6
HV-54	S-230	Oi1	4.9	0.1	L	63.6	40	31.0	203.0	34.2	5720.0	70.3	7.5
HV-54	S-231	Oi2	4.9	0.1	L	71.3	54	25.0	124.1	84.2	4577.2	90.2	21.2
HV-54	S-232	Oe	4.8	0.1	L	73.5	53	6.0	18.6	83.2	4001.2	67.3	19.4
HV-54	S-233	Oa/A	4.8	0.1	L	63.6	42	37.0	26.3	51.5	4368.4	61.7	24.9
HV-55	S-234	Oi1	4.4	0.3	L	88.2	46	34.0					
HV-55	S-235	Oi2	4.9	0.1	L	92.4	30	12.0	47.0	24.6	2450.0	38.6	3.6
HV-55	S-236	Oi3	4.7	0.1	L	90.5	NES*	15.0					

* = Not Enough Sample

-----%-----			-----meq/l-----					Sodium
Sand	Silt	Clay	Texture	Ca	Mg	Na	K	adsorption ratio
---NES*---				7.98	0.80	0.10	0.17	0.05
53	52	-5	SL	4.04	0.35	0.12	0.05	0.08
---NES*---			ORG	10.48	0.99	0.11	0.64	0.05
54	40	6	SL	4.74	0.39	0.09	0.06	0.06
---NES*---			ORG	2.64	0.36	0.11	0.04	0.09
---NES*---			ORG	5.49	1.56	0.16	0.54	0.09
29	63	8	SiL	4.74	1.07	0.17	0.10	0.10
36	56	8	SiL	6.99	0.67	0.16	0.04	0.08
56	38	6	SL	7.98	0.61	0.16	0.06	0.08
62	32	6	SL	5.99	0.57	0.18	0.05	0.10
---NES*---			ORG	5.50	1.90	0.60	1.20	0.30
---NES*---			ORG	5.99	1.81	0.36	0.43	0.18
---NES*---			ORG	8.98	1.56	0.20	0.28	0.09
26	10	64	SiL	5.49	0.76	0.22	0.13	0.13
---NES*---			ORG	10.48	1.48	0.17	0.38	0.07
---NES*---			ORG	7.49	0.90	0.17	0.28	0.08
---NES*---			ORG	9.48	1.23	0.19	0.19	0.08
80	16	4	LS	7.49	0.68	0.16	0.11	0.08
83	15	2	LS	3.09	0.68	0.24	0.07	0.17
74	21	5	SL	3.29	0.75	0.26	0.08	0.18
---NES*---			ORG	5.49	0.82	0.17	0.31	0.10
69	20	11	SL	4.74	0.74	0.25	0.10	0.15
40	47	13	L	5.99	0.90	0.23	0.16	0.12
---NES*---			ORG	9.98	1.15	0.12	0.82	0.05
46	44	10	L	6.49	0.76	0.12	0.08	0.06
49	42	9	L	5.99	0.62	0.15	0.09	0.08
42	51	7	SiL	3.69	0.46	0.16	0.10	0.11
44	50	6	SiL/SL	5.49	0.50	0.18	0.28	0.10
65	29	6	SL	4.99	0.55	0.21	0.08	0.13
---NES*---			ORG	4.29	0.90	0.28	0.15	0.17
28	54	18	SiL	5.49	1.15	0.38	0.05	0.21
34	52	14	SiL	4.94	1.15	0.15	0.16	0.08
---NES*---			ORG	7.98	1.56	0.17	0.56	0.08
---NES*---			ORG	4.99	0.99	0.17	0.14	0.10
32	46	22	L	4.99	0.68	0.19	0.07	0.11

-----%-----			-----meq/l-----					Sodium
Sand	Silt	Clay	Texture	Ca	Mg	Na	K	adsorption ratio
83	13	4	LS	3.24	0.49	0.16	0.09	0.12
---NES*---			ORG	6.99	1.32	0.19	1.59	0.10
---NES*---			ORG	7.98	1.07	0.24	0.66	0.11
44	42	14	L	6.99	0.81	0.22	0.06	0.11
---NES*---				5.99	0.74	0.26	0.11	0.14
63	32	5	SL	3.09	0.65	0.15	0.06	0.11
---NES*---			ORG	6.99	0.66	0.17	0.25	0.09
38	44	18	L	5.99	0.57	0.20	0.04	0.11
50	32	18	L	5.49	0.60	0.21	0.08	0.12
48	48	4	SL	4.99	0.75	0.18	0.09	0.11
---NES*---			ORG	7.49	0.61	0.17	0.02	0.08
68	16	16	SL	4.99	0.90	0.25	0.13	0.14
---NES*---			ORG	2.20	0.76	0.29	1.33	0.24
---NES*---			ORG	1.45	0.62	0.19	1.13	0.19
---NES*---			ORG	1.75	0.77	0.22	0.25	0.20
---NES*---				1.50	0.60	0.24	0.05	0.24
12	58	30	SiCL	1.40	0.62	0.24	0.06	0.24
---NES*---			ORG	1.85	0.66	0.21	1.41	0.19
---NES*---			ORG	4.19	1.15	0.25	0.90	0.15
---NES*---				1.90	0.70	0.28	0.09	0.24
---NES*---			ORG	2.50	0.90	0.25	1.18	0.19
---NES*---			ORG	3.24	0.80	0.12	0.22	0.09
42	42	16	L	2.50	0.63	0.12	0.08	0.10
16	56	28	SiCL	1.75	0.49	0.16	0.10	0.16
---NES*---			ORG	2.69	0.70	0.24	1.46	0.19
---NES*---			ORG	9.48	1.40	0.34	1.33	0.15
---NES*---			ORG	5.49	0.82	0.27	0.26	0.15
18	48	34	SiCL	4.14	0.63	0.28	0.46	0.18
---NES*---			ORG	6.99	0.82	0.27	0.38	0.14
46	42	12	L	4.99	0.61	0.27	0.05	0.16
---NES*---			ORG	3.94	1.64	0.35	0.82	0.21
24	60	16	SiL	2.59	0.99	0.20	0.06	0.15
---NES*---			ORG	0.85	0.39	0.14	0.54	0.18
---NES*---			ORG	1.70	0.74	0.11	0.64	0.10
---NES*---			ORG	1.15	0.47	0.07	0.36	0.08
16	60	24	SiL	1.60	0.72	0.13	0.04	0.13

-----%-----			-----meq/l-----				Sodium	
Sand	Silt	Clay	Texture	Ca	Mg	Na	K	adsorption ratio
---	NES*	---	ORG	1.40	0.57	0.12	1.18	0.12
---	NES*	---	ORG	2.59	1.07	0.06	2.02	0.05
---	NES*	---	ORG	2.05	0.74	0.07	0.51	0.06
---	NES*	---	ORG	2.25	0.81	0.08	0.24	0.06
18	56	26	SiL	1.85	0.77	0.12	0.04	0.11
---	NES*	---	ORG	2.20	0.90	0.05	0.79	0.04
---	NES*	---	ORG	3.59	1.32	0.09	1.02	0.06
---	NES*	---	ORG	1.90	0.72	0.05	0.10	0.04
---	NES*	---	ORG	1.10	0.44	0.07	0.02	0.08
---	NES*	---	ORG	1.55	0.67	0.22	0.66	0.21
---	NES*	---	ORG	3.34	1.23	0.18	0.77	0.12
---	NES*	---	ORG	2.50	0.99	0.18	0.04	0.13
16	55	29	SiCL	1.90	0.76	0.22	0.18	0.19
---	NES*	---	ORG	1.65	0.67	0.07	1.84	0.06
---	NES*	---	ORG	0.90	0.35	0.02	0.51	0.03
---	NES*	---	ORG	3.59	0.99	0.14	0.26	0.09
21	54	25	SiL	4.09	0.99	0.14	0.04	0.09
---	NES*	---	ORG	2.25	0.99	0.22	0.82	0.17
---	NES*	---	ORG	2.89	0.57	0.12	0.19	0.09
29	42	29	CL	2.35	0.55	0.18	0.09	0.15
---	NES*	---	ORG	1.15	0.60	0.18	1.20	0.19
---	NES*	---	ORG	2.05	0.90	0.08	0.33	0.07
17	54	29	SiCL	3.24	1.07	0.20	0.15	0.14
---	NES*	---	ORG	1.55	0.74	0.31	0.74	0.29
---	NES*	---	ORG	1.45	0.59	0.12	0.28	0.12
---	NES*	---	ORG	1.50	0.49	0.09	0.28	0.09
19	56	25	SiL	2.15	0.66	0.09	0.05	0.07
---	NES*	---	ORG	0.65	0.28	0.07	0.20	0.11
---	NES*	---	ORG	1.85	0.79	0.13	0.06	0.11
---	NES*	---	ORG	1.30	0.52	0.07	0.07	0.08
20	60	20	SiL	3.44	1.23	0.22	0.02	0.14
---	NES*	---	ORG	1.75	0.99	0.16	2.35	0.14
---	NES*	---	ORG	1.60	0.82	0.14	1.51	0.12
---	NES*	---	ORG	2.69	0.90	0.13	0.87	0.10
---	NES*	---	ORG	1.40	0.53	0.06	0.25	0.06
15	67	18	SiL	2.00	0.80	0.16	0.09	0.14

-----%-----			-----meq/l-----					Sodium
Sand	Silt	Clay	Texture	Ca	Mg	Na	K	adsorption ratio
---	NES*	---	ORG	2.45	1.15	0.17	0.51	0.13
---	NES*	---	ORG	1.00	0.46	0.16	0.22	0.19
---	NES*	---	ORG	0.85	0.38	0.12	0.12	0.15
---	NES*	---	ORG	1.55	0.67	0.20	0.08	0.19
14	66	20	SiL	3.24	1.40	0.24	0.07	0.16
---	NES*	---	ORG	0.90	0.39	0.18	0.72	0.22
---	NES*	---	ORG	1.20	0.50	0.17	0.17	0.18
---	NES*	---	ORG	1.85	0.73	0.15	0.05	0.13
17	62	21	SiL	1.60	0.67	0.12	0.02	0.12
---	NES*	---	ORG	1.80	0.60	0.19	0.61	0.17
---	NES*	---	ORG	1.05	0.54	0.17	0.84	0.20
---	NES*	---	ORG	2.79	0.90	0.24	0.51	0.17
---	NES*	---	ORG	1.55	0.54	0.23	0.18	0.23
---	NES*	---	---	4.04	1.40	0.25	0.08	0.15
---	NES*	---	ORG	1.40	0.65	0.15	0.77	0.14
---	NES*	---	ORG	1.30	0.57	0.12	0.24	0.12
---	NES*	---	ORG	1.70	0.80	0.28	0.10	0.25
---	NES*	---	ORG	0.80	0.35	0.15	0.56	0.19
---	NES*	---	ORG	1.45	0.44	0.13	0.59	0.14
---	NES*	---	ORG	1.75	0.57	0.12	0.14	0.11
---	NES*	---	ORG	0.95	0.32	0.13	0.16	0.16
14	54	32	SiCL	2.59	0.90	0.18	0.06	0.14
16	54	30	SiCL	1.60	0.69	0.27	0.12	0.25
---	NES*	---	ORG	2.84	0.90	0.19	2.38	0.14
---	NES*	---	ORG	2.59	0.68	0.17	0.97	0.13
---	NES*	---	ORG	2.89	0.63	0.21	0.24	0.16
19	53	28	SiCL	2.69	0.54	0.20	0.07	0.15
---	NES*	---	ORG	4.39	1.40	0.27	1.46	0.16
---	NES*	---	ORG	3.49	0.49	0.16	0.31	0.11
55	36	9	SL	2.54	0.50	0.19	0.08	0.16
---	NES*	---	ORG	7.98	1.56	0.12	1.51	0.06
---	NES*	---	ORG	10.48	1.89	0.23	2.35	0.09
---	NES*	---	ORG	5.49	0.90	0.13	0.28	0.07
30	36	34	CL	4.89	0.67	0.14	0.07	0.08
---	NES*	---	ORG	9.48	1.64	0.32	1.53	0.14
---	NES*	---	ORG	5.49	0.99	0.17	0.64	0.09

-----%-----			-----meq/l-----					Sodium
Sand	Silt	Clay	Texture	Ca	Mg	Na	K	adsorption ratio
35	30	35	CL	2.64	0.55	0.19	0.12	0.15
---	NES*	---	ORG	0.75	0.44	0.22	0.38	0.29
---	NES*	---	ORG	2.25	0.82	0.43	1.13	0.35
---	NES*	---	ORG	1.35	0.39	0.09	0.10	0.10
---	NES*	---	ORG	1.60	0.32	0.11	0.02	0.11
---	NES*	---	ORG	1.15	0.39	0.09	0.07	0.10
---	NES*	---	ORG	1.00	0.49	0.09	0.79	0.11
---	NES*	---	ORG	1.30	0.53	0.18	0.43	0.19
---	NES*	---	ORG	1.70	0.65	0.09	0.38	0.09
---	NES*	---	ORG	1.00	0.38	0.09	0.22	0.11
---	NES*	---	ORG	0.44	0.17	0.06	0.15	0.10
---	NES*	---	ORG	1.30	0.57	0.28	0.77	0.29
---	NES*	---	ORG	0.95	0.38	0.22	0.31	0.28
---	NES*	---	ORG	1.30	0.49	0.20	0.07	0.22
15	56	29	SiCL	1.40	0.55	0.26	0.04	0.27
---	NES*	---	ORG	1.25	0.59	0.35	0.61	0.37
---	NES*	---	ORG	1.30	0.53	0.24	0.36	0.25
---	NES*	---	ORG	1.50	0.69	0.26	0.24	0.25
15	54	31	SiCL	1.85	0.72	0.26	0.06	0.23
---	NES*	---	ORG	0.65	0.29	0.29	0.38	0.42
---	NES*	---	ORG	0.90	0.38	0.17	0.12	0.21
---	NES*	---	ORG	1.10	0.41	0.13	0.08	0.15
---	NES*	---	ORG	1.05	0.34	0.10	0.05	0.12
---	NES*	---	ORG	0.80	0.36	0.12	0.56	0.16
---	NES*	---	ORG	0.75	0.31	0.09	0.16	0.12
---	NES*	---	ORG	0.90	0.37	0.11	0.13	0.13