



Soils

EPA ID	Frequency Required under EPL	Location	Soil Depth	Year	pH (1:5 CaCl2)	pH (1:5 H2O)	EC (1:5 H2O) dS/m	Chloride (1:5 H2O) mg/kg	Organic carbon (Walkley Black) %	Nitrate-N (H2O) mg/kg	Nitrogen Total (Leco or Dumas) % PTA	Phosphorus (Colwell) mg/kg	Potassium (Amm-acet.) cmol+/kg	Calcium (Amm-acet.) cmol+/kg	Magnesium (Amm-acet.) cmol+/kg	Sodium (Amm-acet.) cmol+/kg	Sodium Ads. Ratio (SAR Soil)	eCEC cmol+/kg	Sodium % cations
9	Special 1	MUA-I	TOP 0-300	2015	7.4	8	0.2	11	1.06	45	664	24	0.51	27.4	13.8	0.8	1.8	42.4	1.9
9	Special 1	MUA-I	SUB 300-900	2015	7.9	8.8	0.24	14	0.83	14	322	14	0.43	28.2	17.6	2.58	2.5	48.8	5.3
9	Special 1	MUA-J	TOP 0-300	2015	7.9	8.5	0.18	18	1.18	18	609	20	0.38	44.2	12.6	1.12	2.2	58.3	1.9
9	Special 1	MUA-J	SUB 300-900	2015	8.1	9	0.29	17	1.12	10	353	8	0.29	37.8	16.2	3.36	2.7	57.7	5.8
9	Special 1	MUA-K	TOP 0-300	2015	7.7	8	0.16	13	2.18	27	1267	35	0.53	42.4	5.2	0.11	1.1	48.2	0.2
9	Special 1	MUA-K	SUB 300-900	2015	7.8	8.4	0.16	9	3.05	18	630	15	0.24	36	8.5	0.29	1.7	45	0.6
9	Special 1	MUA-L	TOP 0-300	2015	7.4	8	0.24	67	1.39	52	1321	113	1.14	27.9	16.1	0.88	3.8	46.1	1.9
9	Special 1	MUA-L	SUB 300-900	2015	7.6	8.6	0.21	81	0.78	23	422	13	0.37	26	18.8	1.63	4.1	46.8	3.5
9	Special 1	MUA-A	TOP 0-300	2015	6.8	7.3	0.11	20	1.06	12	669	32	0.54	14.1	10.5	1.25	1.4	26.3	4.7
9	Special 1	MUA-A	SUB 300-900	2015	7.7	8.3	0.66	263	0.88	11	344	10	0.39	18	14.8	3.67	7.5	36.9	10
9	Special 1	MUA-B	TOP 0-300	2015	7.6	8.2	0.13	20	1.17	14	712	62	0.55	24.4	10.5	0.77	1.6	36.2	2.1
9	Special 1	MUA-B	SUB 300-900	2015	8.2	8.9	0.25	21	0.83	6	239	11	0.31	29.3	13.8	2.42	2.5	45.8	5.3
9	Special 1	MUA-C	TOP 0-300	2015	7.8	8.6	0.16	28	0.79	14	430	52	0.41	27.6	14.7	1.29	2.3	44	2.9
9	Special 1	MUA-C	SUB 300-900	2015	8.3	9.1	0.35	19	0.74	7	134	10	0.35	33.3	18.9	3.82	12.5	56.4	6.8
9	Special 1	MUA-D	TOP 0-300	2015	7.8	8.4	0.17	11	0.98	4	701	48	0.84	34.3	17.6	1.05	1.7	53.9	1.9
9	Special 1	MUA-D	SUB 300-900	2015	8.3	9.1	0.34	27	0.9	7	329	17	0.54	29.7	23.5	4.2	2.8	58	7.2
9	Special 1	MUA-E	TOP 0-300	2015	7.3	7.8	0.14	15	0.85	22	497	16	0.37	26.2	17.7	0.5	1	44.8	1.1
9	Special 1	MUA-E	SUB 300-900	2015	7.7	8.6	0.12	15	0.71	3	280	8	0.31	24	20.2	1.13	1.2	45.7	2.5
9	Special 1	MUA-F	TOP 0-300	2015	7.3	8	0.15	59	1.15	27	1024	30	0.63	31.5	14.7	0.53	1.2	47.3	1.1
9	Special 1	MUA-F	SUB 300-900	2015	7.7	8.3	0.14	84	1.04	5	549	14	0.4	32.6	17.7	0.46	1	51.2	0.9
9	Special 1	MUA-G	TOP 0-300	2015	7	7.6	0.13	13	1.22	29	764	30	0.73	35.7	15.6	0.58	1.7	52.6	1.1
9	Special 1	MUA-G	SUB 300-900	2015	7.8	8.2	0.16	20	1.17	11	440	9	0.43	38.1	20.8	0.33	2.4	59.7	0.6
9	Special 1	MUA-H	TOP 0-300	2015	7.5	8.4	0.12	27	1.31	7	1085	58	0.57	19.1	10	0.79	2	30.4	2.6
9	Special 1	MUA-H	SUB 300-900	2015	7.9	8.9	0.26	47	1.02	8	440	14	0.31	19.9	14.5	3.15	7	37.9	8.3
9	Special 1	MUA-C	TOP 0-300	2016	7.7	8.5	0.17	18	0.84	8	0.03	7	0.27	34.3	14.4	2.03	1.2	51	4
9	Special 1	MUA-C	SUB 300-900	2016	8.2	9.1	0.3	24	0.84	2	0.03	4	0.24	34.4	18.9	6.22	3.2	59.7	10.4
9	Special 1	MUA-K	TOP 0-300	2016	8	8.1	0.12	8	1.73	14	0.13	7	0.43	51.9	6.5	0.31	0.4	59.1	0.5
9	Special 1	MUA-K	SUB 300-900	2016	7.8	8.3	0.13	10	1.34	11	0.07	4	0.23	52.6	9.3	0.55	1.6	62.7	0.9
9	Special 1	Murgo	TOP 0-300	2016	7.8	8.6	0.2	17	0.53	6	0.04	4	0.24	34.5	13.4	2.84	2.7	51	5.6
9	Special 1	Murgo	SUB 300-900	2016	8.2	9	0.47	73	0.41	3	0.02	4	0.28	36.6	17.4	8.13	16.7	62.4	13
7	Annual	EUA-7	TOP 0-300	2016	6.7	8.1	0.24	92	1.18	42	0.09	16	2.81	21	10.3	1.77	2.7	35.8	4.9
7	Annual	EUA-7	SUB 300-900	2016	7.7	8.8	0.38	156	1.06	22	0.05	4	0.43	37.2	14.6	5.15	15.2	57.3	9
8	Annual	EUA-8	TOP 0-300	2016	8.1	8.6	0.24	101	0.94	5	0.06	12	0.8	27.7	14.4	3.11	6.7	46	6.8
8	Annual	EUA-8	SUB 300-900	2016	8.3	8.7	0.34	155	0.76	1	0.04	9	0.4	29.3	16	4.51	6.6	50.2	9
8	Annual	EUA-B1	TOP 0-300	2016	7.7	8.6	0.14	15	0.75	17	0.05	5	0.27	29.6	17.9	1.25	1.4	49	2.6
8	Annual	EUA-B1	SUB 300-900	2016	8	8.9	0.21	14	0.71	2	0.03	5	0.27	29.5	22.6	4.03	1.5	56.3	7.2
9	Special 1	MUA-A	TOP 0-300	2016	7.8	8.5	0.18	10	0.9	24	0.05	10	0.49	34.5	14.4	1.97	2.2	51.4	3.8
9	Special 1	MUA-A	SUB 300-900	2016	8.1	9	0.34	42	0.84	17	0.03	5	0.42	32.4	15.8	5.23	5.8	53.9	9.7
9	Special 1	MUA-B	TOP 0-300	2016	7.3	7.8	0.11	18	1.4	14	0.09	20	0.43	27	11.6	1.43	1.8	40.5	3.5
9	Special 1	MUA-B	SUB 300-900	2016	8	8.9	0.25	12	1.01	4	0.05	4	0.26	33.8	16.2	4.97	3.9	55.2	9
9	Special 1	MUA-A	TOP 0-300	2017	7.1	7.6	0.07	15	1	8	0.15	42	0.47	19	10.5	2.13	0.7	32	6.6
9	Special 1	MUA-A	SUB 300-900	2017	7.5	8.7	0.32	15	0.69	7	0.12	31	0.28	21.3	11.8	5.18	2.9	38.5	13.4
9	Special 1	MUA-B	TOP 0-300	2017	7.8	8.5	0.16	16	1.04	14	0.09	53	0.44	27.2	10.3	1.49	1	39.4	3.8
9	Special 1	MUA-B	SUB 300-900	2017	8.1	9	0.29	21	0.35	5	0.14	34	0.24	30	15.1	5.68	2.6	51.1	11.1
9	Special 1	MUA-C	TOP 0-300	2017	7.5	8.4	0.09	21	0.91	12	0.11	36	0.29	22.9	11.7	2.73	1.1	37.7	7.3
9	Special 1	MUA-C	SUB 300-900	2017	7.8	9.1	0.3	27	0.45	3	0.21	32	0.29	29.2	14.4	7.29	2.7	51.2	14.2
9	Special 1	MUA-K	TOP 0-300	2017	7.6	8.5	0.28	20	1.04	13	0.16	64	0.54	31.9	8.4	0.41	0.5	41.2	1
9	Special 1	MUA-K	SUB 300-900	2017	7.6	8.4	0.27	15	1.35	30	0.25	36	0.41	42.1	10.5	1.03	1.1	54.1	1.9
9	Special 1	Murgo	TOP 0-300	2017	6.6	7.9	0.2	33	0.96	19	0.22	45	0.65	24.8	10.7	3.5	1.7	39.6	8.8
9	Special 1	Murgo	SUB 300-900	2017	7.8	9	0.46	124	0.35	10	0.18	34	0.37	28.5	14.2	10.61	5.1	53.7	19.8
7	Annual	EUA-7	TOP 0-300	2017	7.8	8.5	0.32	181	1.3	15	0.11	93	3.37	19	9.2	2.63	2	34.2	7.7
7	Annual	EUA-7	SUB 300-900	2017	7.8	8.2	0.37	224	0.85	9	0.13	32	0.52	20.1	12.4	5.47	4.1	38.5	14.2
8	Annual	EUA-B1	TOP 0-300	2017	7.9	8.9	0.25	85	0.83	10	0.21	32	0.57	25.5	14.5	4.19	2.4	44.8	9.4
8	Annual	EUA-B1	SUB 300-900	2017	8	8.9	0.39	164	0.32	8	0.12	29	0.27	28.9	17.6	6.47	4.4	53.2	12.1
7	Annual	EUA-7	TOP 0-300	2018	7.8	8.4	0.45	242	0.35	56	1203	85	2.53	17.6	9.4	2.22	8.2	31.8	7
7	Annual	EUA-7	SUB 300-900	2018	8.1	8.9	0.52	393	0.41	33	632	25	0.39	27.4	13.9	5.38	17.7	47	11.5
8	Annual	EUA-8	TOP 0-300	2018	8.1	9.1	0.25	68	0.55	12	728	20	0.48	26.9	15.1	2.85	5.2	45.4	6.3
8	Annual	EUA-8	SUB 300-900	2018	8.1	9.1	0.38	115	0.28	27	436	15	0.25	23.3	17.4	4.82	12.5	45.8	10.5
9	Special 1	MUA-A	TOP 0-300	2018	7.4	8.2	0.14	12	0.64	8	806	30	0.34	18	10.3	1.75	3.5	30.4	5.7
9	Special 1	MUA-A	SUB 300-900	2018	7.8	8.2	1.31	8	0.39	5	436	18	0.31	30.4	12.5	4.57	10.3	47.8	9.6
9	Special 1	MUA-B	TOP 0-300	2018	8	8.7	0.16	14	0.75	15	799	45	0.34	31	11.9	1.27	4.5	44.5	2.9
9	Special 1	MUA-B	SUB 300-900	2018	8.2	9.2	0.28	4	0.33	3	414	17	0.26	29.1	15.9	3.87	8.4	49.1	7.9
9	Special 1	MUA-C	TOP 0-300	2018	7.8	8.5	0.13	15	0.57	17	743	28	0.28	22.3	11.6	1.9	4.8	36.1	5.3
9	Special 1	MUA-C	SUB 300-900	2018	8.2	9.3	0.34	38	0.45	3	505	19	0.25	25.2	14.4	5.8	11.4	45.6	12.7
9	Special 1	MUA-K	TOP 0-300	2018	7.5	8.2	0.17	16	1.26	27	1352	49	0.59	43.6	8.3	1.03	3.4	53.5	1.9
9	Special 1	MUA-K	SUB 300-900	2018	7.8	8.7	0.22	8	1.26	18	1094	22	0.43	41.9	10	3.4	5.1	55.8	6.1
9	Special 1	Murgo	TOP 0-300	2018	7.5	8.1	0.17	20	0.61	24	817	31	0.35	22.1	11	2.27	4.4	35.7	6.4
9	Special 1	Murgo	SUB 300-900	2018	8.2	9.2	0.44	75	0.44	17	495	15	0.25	26.9	13.2	6.4	16.2	46.7	13.7
9	Special 1	MUA-C	TOP 0-300	2019	7.56	8.27	0.13	16.3	0.71	5.43	479	16.8	0.06624	19.84	10.54167	0.678261	3	31.3	2.2
9	Special 1	MUA-C	SUB 300-900	2019	8.12	9	0.33	14.8	0.5	4.7	391	11.7	0.069309	18.725	10.				