

MURRAY DAIRY WORKSHOP 2.  
COMPREHENSIVE SOIL TEST RESULTS.

JANUARY 2017.

Sample Name	Units	Site 1. Holm.		Site 2. Holm.		Site 3. Singleton.		Site 4. Singleton.	
		A1 Horizon.	B1 Horizon.	A1 Horizon.	A2 Horizon.	A1 Horizon.	A2 Horizon.	A1 Horizon.	B1 Horizon.
Soil pH	Water	6.3	6.9	5.8	6.1	7.2	6.9	6.8	6.2
Soil pH	CaCl <sub>2</sub>	5.8	6.2	5.3	5.4	6.7	5.9	6.3	5.4
Conductivity	dS/m <sup>-1</sup>	0.210	0.170	0.200	0.110	0.270	0.070	0.23	0.11
Conductivity	EC Sat Ext.	1.3	1.1	1.2	0.7	2.2	0.4	1.4	0.7
Chloride	ppm	15	13	<10	<10	60	14	29	16
Organic Carbon	%	1.4	0.5	1.4	0.7	1.3	0.6	2.1	0.9
Nitrate Nitrogen	mg/kg	62.0	42.0	73.0	31.0	78.0	7.0	29	18
Ammonium Nitrogen	mg/kg	4	3	3	1	2	<1	3	1
Colwell P	mg/kg	43	8	55	14	170	14	260	62
Phosphorus Buffer Index		95	110	88	79	66	44	130	96
Phos Env Risk		46	23	23	15	33	22	2	0.6
Sulphate Sulphur	mg/kg	14.5	19.3	11.9	12	9.7	5.4	58	23
CEC	cmol/kg	9.50	9.70	8.00	7.30	6.60	3.40	14.4	7.8
Exc. Calcium	cmol/kg	3.9	8.4	2.9	3.8	1.7	1.3	9.5	4.4
Exc. Magnesium	cmol/kg	0.17	0.29	0.09	0.10	0.38	0.37	2.9	2.6
Exc. Sodium	cmol/kg	0.80	0.91	0.89	0.89	1.10	0.31	0.36	0.35
Exc. Potassium	cmol/kg	310	350	350	350	420	120	1.6	0.44
Aluminium KCl	cmol/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aluminium Saturation	%	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Calcium Sum of Cations	%	66	50	67	61	68	63	66	56
Magnesium Sum of Cations	%	27	43	25	31	17	25	20	34
Sodium Sum of Cations	%	1.2	1.5	0.8	0.8	3.9	6.8	2.5	4.5
Potassium Sum of Cations	%	5.5	4.7	7.4	7.4	11.0	5.7	11.0	5.6
Ca:Mg Ratio		2.4	1.2	2.8	1.9	3.9	2.6	3.3	1.7
Zinc	ppm	0.8	0.1	1.6	0.3	4.7	0.3	5.0	0.7
Copper	ppm	1.8	1.7	1.8	1.4	1.2	1.0	2.8	2.3
Iron	ppm	69	33	110	52	84	38	180	130
Manganese	ppm	37	19	35	27	12	19	27	67
Boron	ppm	1.3	2.0	1.0	1.2	1.1	0.8	1.7	1.3

INTERPRETATION:

	Very High
	Slightly High
	Acceptable
	Slightly Low
	Low
	Very Low-Deficient.