

**Monto Growers Group - Soil tests results for pre winter crop sowing**



These soil tests were taken and analysed as part of the Burnett Catchment Care Association's "Invest in a Test" Project. They were taken from 13 cropping properties in the Monto region in February 2024. Soil samples were taken by Kendall Muller and were subsampled from 4 soil layers, 0-10cm, 10-30cm, 30-60cm and 60-90cm. The lab analysis was conducted by Hortus Analytical in Bundaberg.

Reference	Sample Depth	Crop	Growth Stage	pH	Electrical Conductivity	Nitrate-N	Phosphorus (Colwell)	P Buffer Index	Potassium (exchangeable)	Calcium (exchangeable)	Magnesium (exchangeable)	Sodium (exchangeable)	Zinc	Copper	Iron	Manganese	Sulfur	Chloride	Boron	Organic Carbon	Organic Matter	Cation Exchange Capacity	K/Cation %	Ca/Cation %	Mg/Cation %	Exchangeable Sodium Percentage	Ca:Mg	K:Mg
				1:5 Water	1:5 Water mS/cm	DI Water mg/kg	Bicarbonate mg/kg	PBI L/kg	acetate mg/kg	Ammonium acetate mg/kg	Ammonium acetate mg/kg	Ammonium acetate mg/kg	DTPA mg/kg	DTPA mg/kg	DTPA mg/kg	DTPA mg/kg	MCP mg/kg	Water mg/kg	Hot CaCl2 mg/kg	W & B %	HTSCALC %	HTSCALC cmol(+)/kg	HTSCALC %	HTSCALC %	HTSCALC %	HTSCALC %	HTSCALC %	HTSCALC %
Glenleigh	0-10 cm	Oats	Pre-Plant	7.7	0.08	7.5	18	78.3	75	4000	1100	270	0.37	1.69	6.2	2.6	5.22	28	0.3	1.16	2.55	30.53	0.6	65.5	30	3.8	2.18	0.02
Glenleigh	10-30cm	Oats	Pre-Plant	7.3	0.08	10	29	84.4	140	4200	1100	190	0.65	1.87	11.7	5.4	4.43	16	0.2	1.72	3.78	31.35	1.1	67	29.2	2.6	2.29	0.04
Glenleigh	30-60cm	Oats	Pre-Plant	6.8	0.08	24	75		150	4200	1000	110						13				30.2	1.3	69.5	27.6	1.6	2.52	0.05
Glenleigh	60-90cm	Oats	Pre-Plant	7.9	0.15	3.3	25		71	3800	990	480						43				29.52	0.6	64.4	27.9	7.1	2.3	0.02
Monto A	0-10 cm	Wheat	Pre-Plant	6.9	0.1	25	44	54.1	110	4500	1200	170	1.57	2.15	9.1	5.2	3.93	22	0.4	1.77	3.89	33.52	0.8	67.1	29.8	2.2	2.25	0.03
Monto A	10-30cm	Wheat	Pre-Plant	7.2	0.11	10	31	71.2	100	4800	1300	200	0.84	2.89	6.7	3.3	4.6	41	0.4	1.55	3.41	35.96	0.7	66.7	30.1	2.4	2.22	0.02
Monto A	30-60cm	Wheat	Pre-Plant	7.8	0.11	3.9	16		71	5300	1500	270						52				40.36	0.5	65.7	31	2.9	2.12	0.01
Monto A	60-90cm	Wheat	Pre-Plant	8.1	0.51	5.4	13		100	5400	1500	340						45				41.23	0.6	65.5	30.3	3.6	2.16	0.02
Bancroft	0-10 cm	Oats	Pre-Plant	7.1	0.07	1.1	33	44.1	78	3600	580	110	3.08	0.98	11.6	5.4	6.28	16	0.4	1.88	4.14	23.51	0.9	76.6	20.6	2	3.72	0.04
Bancroft	10-30cm	Oats	Pre-Plant	7.4	0.21	0.7	26	74.5	120	4400	640	150	1.1	0.71	7.7	4.4	12.18	32	0.3	1.56	3.43	28.29	1.1	77.8	18.9	2.3	4.12	0.06
Bancroft	30-60cm	Oats	Pre-Plant	7.3	0.15	15	30		75	3600	730	210						75				25.19	0.8	71.5	24.2	3.6	2.96	0.03
Bancroft	60-90cm	Oats	Pre-Plant	7.5	0.14	7.1	20		79	3200	790	230						67				23.79	0.9	67.3	27.7	4.2	2.43	0.03
Bukali	0-10 cm	Wheat	Pre-Plant	7.3	0.2	36	21	48.4	89	4700	900	210	2.05	2.26	4.4	3.3	16.96	71	0.3	2.3	5.06	32.14	0.7	73.1	23.3	2.8	3.13	0.03
Bukali	10-30cm	Wheat	Pre-Plant	7.5	0.21	8.9	10	59.3	69	4800	880	190	0.42	2.17	3.4	2.8	87.52	120	0.4	1.81	3.98	32.34	0.5	74.2	22.7	2.6	3.27	0.02
Bukali	30-60cm	Wheat	Pre-Plant	6.9	0.25	4.4	17		81	5000	900	200						140				33.58	0.6	74.5	22.3	2.6	3.33	0.03
Bukali	60-90cm	Wheat	Pre-Plant	7.6	0.22	4	21		42	5200	980	250						120				35.36	0.3	73.5	23.1	3.1	3.18	0.01
Mulgildie A	0-10 cm	Wheat	Pre-Plant	7.1	0.22	44	50	136.4	540	10000	1000	81	2.04	1.25	3.7	2.1	7.44	11	0.2	1.78	3.92	60.07	2.3	83.2	13.9	0.6	6	0.17
Mulgildie A	10-30cm	Wheat	Pre-Plant	7.6	0.21	25	10	148.5	230	9700	1400	180	0.38	1.02	8.1	2.7	7.75	15	0.1	1.47	3.23	61.54	1	78.8	19	1.3	4.16	0.05
Mulgildie A	30-60cm	Wheat	Pre-Plant	8.6	0.23	20	5		140	7900	1600	380						24				54.84	0.7	72	24.3	3	2.96	0.03
Mulgildie A	60-90cm	Wheat	Pre-Plant	8.7	0.35	18	3		130	7200	2600	1100						61				62.78	0.5	57.3	34.5	7.6	1.66	0.02
Selene	0-10 cm	Wheat	Pre-Plant	6.7	0.06	2.4	82	26.9	110	400	43	33	1.78	1.72	69.7	1.6	7.52	19	0.3	-0.05	-0.11	2.78	10.1	71.8	12.9	5.2	5.58	0.79
Selene	10-30cm	Wheat	Pre-Plant	7.4	0.08	3.1	20	96.4	110	4600	1500	370	0.57	3.81	8.3	3	2.06	31	0.4	1.37	3.01	37.39	0.8	61.5	33.4	4.3	1.84	0.02
Selene	30-60cm	Wheat	Pre-Plant	8.1	0.17	0.2	21		130	4500	1900	860						88				42.41	0.8	53.1	37.3	8.8	1.42	0.02
Selene	60-90cm	Wheat	Pre-Plant	8.2	0.41	2.2	26		110	4300	2100	1400						320				45.37	0.6	47.4	38.6	13.4	1.23	0.02
Mulgildie B	0-10 cm	Wheat	Pre-Plant	8.1	0.11	7.6	60	90.2	120	4400	1700	640	0.27	2.63	5	1	2.54	17	0.3	1.11	2.44	39.26	0.8	56	36.1	7.1	1.55	0.02
Mulgildie B	10-30cm	Wheat	Pre-Plant	8.5	0.3	0.3	15	129.6	110	3900	1900	1200	0.45	2.53	5.7	2	13.61	110	0.3	-0.05	-0.11	40.83	0.7	47.8	38.8	12.8	1.23	0.02
Mulgildie B	30-60cm	Wheat	Pre-Plant	8.4	0.51	5.4	13		140	3800	2100	1900						340				45.12	0.8	42.1	38.8	18.3	1.09	0.02
Mulgildie B	60-90cm	Wheat	Pre-Plant	9.2	0.46	-0.1	18		100	4200	2400	3300						310				55.6	0.5	37.8	36	25.8	1.05	0.01
Mungungo	0-10 cm	Barley	Pre-Plant	6.2	0.17	55	40	45	130	3500	730	93	1.55	2.19	6.4	5.4	6.34	16	0.4	1.97	4.33	24.32	1.4	72	25	1.7	2.88	0.05
Mungungo	10-30cm	Barley	Pre-Plant	7.7	0.12	17	21	46.4	51	3600	710	80	0.49	1.58	4.1	4.5	3.86	15	0.2	1.58	3.48	24.4	0.5	73.8	24.3	1.4	3.04	0.02
Mungungo	30-60cm	Barley	Pre-Plant	8	0.08	9.5	45		56	4200	790	100						15				28.16	0.5	74.6	23.4	1.5	3.19	0.02
Mungungo	60-90cm	Barley	Pre-Plant	8	0.05	5	34		64	4100	780	100						14				27.6	0.6	74.3	23.6	1.6	3.15	0.03
Monto B	0-10 cm	Wheat	Pre-Plant	7.3	0.11	26	39	46.8	190	3700	880	100	1.47	2.15	8.7	4.7	5.07	12	0.4	1.67	3.67	26.76	1.8	69.1	27.4	1.6	2.52	0.07
Monto B	10-30cm	Wheat	Pre-Plant	7.4	0.09	19	20	57	68	3600	870	120	0.31	2.23	7.4	4.1	5.27	22	0.3	1.22	2.68	25.95	0.7	69.4	27.9	2	2.48	0.02
Monto B	30-60cm	Wheat	Pre-Plant	7.8	0.09	11	16		33	3900	880	160						31				27.61	0.3	70.6	26.6	2.5	2.66	0.01
Monto B	60-90cm	Wheat	Pre-Plant	7.8	0.1	8.7	37		62	4200	950	190						41				29.9	0.5	70.2	26.5	2.8	2.65	0.02
Monto C	0-10 cm	Lucerne	Pre-Plant	7.6	0.07	9.5	63	58.8	140	3700	950	130	1.22	1.76	10.2	6.6	-2	12	0.3	1.52	3.34	27.34	1.3	67.7	29	2.1	2.34	0.05
Monto C	10-30cm	Lucerne	Pre-Plant	7.7	0.06	3.8	43	58.8	79	4200	1100	150	1.02	1.92	6.5	5.3	2.67	16	0.4	1.24	2.73	31.02	0.7	67.7	29.5	2.1	2.29	0.02
Monto C	30-60cm	Lucerne	Pre-Plant	7.8	0.09	1.3	28		130	4900	1300	250						36				36.75	0.9	66.7	29.5	3	2.26	0.03
Monto C	60-90cm	Lucerne	Pre-Plant	8.2	0.07	1.1	34		61	4500	1400	380						25				35.98	0.4	62.5	32.4	4.6	1.93	0.01
Moonford A	0-10 cm	Wheat	Pre-Plant	6.3	0.21	73	88	41.5	380	2400	520	37	1.37	1.17	19.4	6.2	8.93	21	0.4	2.01	4.42	17.47	5.6	68.7	24.8	0.9	2.77	0.22
Moonford A	10-30cm	Wheat	Pre-Plant	6.6	0.06	11	46	48.7	140	2700	610	61	0.36	1.5	12.3	3.9	3.47	-10	0.3	1.1	2.42	19.21	1.9	70.3	26.5	1.4	2.66	0.07
Moonford A	30-60cm	Wheat	Pre-Plant	8.1	0.05	7.1	45		77	3200	710	110						13				22.59	0.9	70.8	26.2	2.1	2.7	0.03
Moonford A	60-90cm	Wheat	Pre-Plant	7.9	0.04	5.1	45		78	3300	720	140						-10				23.31	0.9	70.8	25.7	2.6	2.75	0.03
Moonford B	0-10 cm	Wheat	Pre-Plant	6.3	0.25	99	131	45.9	770	2700	670	32	2.42	1.6	21.3	6.7	9.34	12	0.4	2.08	4.58	21.2	9.3	63.7	26.3	0.7	2.42	0.35
Moonford B	10-30cm	Wheat	Pre-Plant	6.5	0.15	40	68	41.7	320	3600	790	40	0.66	1.8	12.3	5.1	4.24	10	0.4	1.64	3.61	25.58	3.2	70.4	25.7	0.7	2.73	0.12
Moonford B	30-60cm	Wheat	Pre-Plant	7.6	0.08	24	46		91	4300	910	60						-10				29.58	0.8	72.7	25.6	0.9	2.84	0.03
Moonford B	60-90cm	Wheat	Pre-Plant	7.6	0.06	10	43		68	4200	870	67						-10				28.72	0.6	73.1	25.2	1	2.9	0.02
Moonford C	0-10 cm	Wheat	Pre-Plant	5.3	0.25	87	126	44.7	770	2500	600	68	3.22	1.55	78.7	7.6	10.97	20	0.5	2.35	5.17	19.77	10	63.2	25.3	1.5	2.5	0.39
Moonford C	10-30cm	Wheat	Pre-Plant	6.6	0.09	7.6	64	39.2	250	3100	730	69	1.11	1.35	14.9	5.4	3.91	19	0.4	1.57	3.45	22.52	2.8	68.8	27	1.3	2.55	0.11
Moonford C	30-60cm	Wheat	Pre-Plant	7.6	0.09	18	48		87	16	760																	