

HiLab No		2MS20050	2MS20051	2MS20122	2MS20123
Name		Chalmers	Chalmers	Chalmers	Chalmers
Code		29/09/2020	29/09/2020	29/09/2020	29/09/2020
Depth		0-10	10-20	20-40	40-60
Colour		GR	GR		
Gravel	%	0	0		
Texture		3.0	3.0		
Ammonium Nitrogen	mg/kg	44	5		
Nitrate Nitrogen	mg/kg	55	9		
Phosphorus Colwell	mg/kg	54	14		
Potassium Colwell	mg/kg	365	227		
Sulfur	mg/kg	15.6	9.9		
Organic Carbon	%	1.41	0.71		
C:N ratio		142	507		
Conductivity	dS/m	0.18	0.18	0.08	0.26
Chloride	mg/kg			17.1	104
pH Level (CaCl2)		4.5	5.6	6.5	6.6
pH Level (H2O)		5.7	7.0	8	8.2
Aluminium CaCl2				< 0.2	< 0.2
Exc. Aluminium	meq/100g	0.27	0.08	0.06	0.05
Exc. Calcium	meq/100g	5.86	7.71	8.71	7.89
Exc. Magnesium	meq/100g	6.73	9.82	11.42	10.8
Exc. Potassium	meq/100g	0.82	0.62	0.61	0.6
Exc. Sodium	meq/100g	1.25	1.98	3.11	5.24
ECEC		14.9	20.2	23.9	24.6
ESP		8.4%	9.8%	13.0%	21.3%
% Al		1.8%	0.4%	0.3%	0.2%
DTPA Copper	mg/kg	6.56	4.54		
DTPA Iron	mg/kg	239.5	90.1		
DTPA Manganese	mg/kg	29.07	17.1		
DTPA Zinc	mg/kg	1.35	0.47		
Boron Hot CaCl2	mg/kg	1.14	1.49		

>30 mg/kg - no response to N fertiliser
> 30 mg/kg ok; > 50 mg/kg no response likely. Potential for tie-up in acid soil with high Fe

low salinity if EC1:5 in clay is 0.12-0.24

pH < 4.7 Al becomes available. Trigger for liming 5.2

pH 5 to 9 = optimum and all nutrient available

clay% roughly ECEC * 2

sodic if > 6; highly sodic if > 10-14

Al in soils at pH(CaCl2) 4.5-4.7

