



Bio Services

SOIL TESTING LABORATORY

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REAMS SOIL REPORT AND RESULTS -kg/ha

SAMPLE SUBMITTED BY John Smith	GROWER Dairy farm	CROP Pasture		Ha 80 ha		REPORT DATE 11/10/2010
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Plant Availability	Area Ha	Nitrate N NO ₃	Ammon. N NH ₄	Calcium Ca	Magnesium Mg	Phosphorus P	Phosphate P ₂ O ₅	Potassium K	Sodium Na	pH log[H]	ORP mV	ERGS uS/cm	Para-Magnetism	Humus Rating	Ca:Mg Ratio	P:K Ratio	Total Daily Nutrients**
Desired Ranges	kg/ha	40-80	40-80	2000-5000	280-800	100-200	200-400	100-200	20-70	6.2-6.9	25-28	200-600	300-1200	30-40	7:01	2:1 or 1:1	2900
Clay	65	50	4	1274	234	69	159	300	22	6.2	25	195	5	5	5.4	0.2	1787
Crops	5	33	8	1144	265	69	159	220	30	6.1	24	230	5	10	4.3	0.3	1564
Peat	10	40	6	1482	265	23	53	220	25	5.8	24	145	1	13	5.6	0.1	1801

Notes:

Low Ca availability means decreased reserve energy, fruit bruising susceptibility, weakened crop stems & grass weed problems

* Important ratio: a 7:1 Ca:Mg ratio means good soil structure; less than 7:1 means compacted, poorly aerated soil. High Na levels can cause compaction despite a 7:1 Ca:Mg ratio

* Important ratio: a good P:K ratio discourages broadleaf weed infestation, insect infestation & increases growth vigour & leaf brix [pasture 2:1, other crops 1:1]

**Combined availability of nitrate N, ammonium N, Ca, Phosphate and K. Ca is the major contributor followed by phosphate and K.

Mycorrhizal fungi require available P of 45-157 kg/ha to function; therefore establish minimum of 50 kg/ha P before inoculating with mycorrhizal spores [EF BioVam]

This Result:

Clay: Low ammon N, Ca, P, Mg, pH, ergs, PM, humus

Peat: Low ammon N, Ca, P, pH, ORP, ergs, PM, humus

Crop: Low nitrate N, ammon N, Ca, Mg, P, pH, ORP, humus, PM

Reports: A report and recommended soil fertility management plan can be requested by the submitter and or grower

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