



Understanding Soil and Manure Analyses

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Understanding your Soil Analysis - pH

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
366172/24	1	COW PASTURE <i>No cropping details given</i>	6.3	2	3	5	23.4	241	309
366173/24	2	STONEY PATCH <i>No cropping details given</i>	6.5 <i>Ideal Arable Field</i>	2	3	5	20.4	303	312
366174/24	3	WOODHOUSE 1 <i>No cropping details given</i>	6.3	2	2+	5	20.0	240	294
366175/24	4	WOODHOUSE 2 <i>No cropping details given</i>	6.4	2	2-	5	21.2	180	309
366176/24	5	SEED FIELD <i>No cropping details given</i>	5.8	2	2+	3	24.4	230	105
366177/24	6	SLANG <i>No cropping details given</i>	6.2 <i>Ideal Arable Rotation with Grass Field</i>	3	3	2	43.0	365	85

What do the Indices Mean?

Index	Phosphorus (P) (mg/L)	Potassium (K) (mg/L)	Magnesium (Mg) (mg/L)
	Olsen P	Ammonium nitrate extract	
0	0–9	0–60	0–25
1	10–15	61–120	26–50
2	16–25	121–180 (2-) 181–240 (2+)	51–100
3	26–45	241–400	101–175
4	46–70	401–600	176–250
5	71–100	601–900	251–350
6	101–140	901–1,500	351–600
7	141–200	1,501–2,400	601–1,000
8	201–280	2,401–3,600	1,001–1,500
9	Over 280	Over 3,600	Over 1,500

Understanding your Soil Analysis - P

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366172/24	1	COW PASTURE <i>No cropping details given</i>	6.3	2	3	5	23.4	241	309
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366174/24	3	WOODHOUSE 1 <i>No cropping details given</i>	6.3	2	2+	5	20.0	240	294
366175/24	4	WOODHOUSE 2 <i>No cropping details given</i>	6.4	2	2-	5	21.2	180	309
366176/24	5	SEED FIELD <i>No cropping details given</i>	5.8	2	2+	3	24.4	230	105
366177/24	6	SLANG <i>No cropping details given</i>	6.2	3	3	2	43.0	365	85

Target

Understanding your Soil Analysis - K

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Soil pH	Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details			P	K	Mg	P	K	Mg
366172/24	1	COW PASTURE <i>No cropping details given</i>		6.3	2	3	5	23.4	241	309
366173/24	2	STONEY PATCH <i>No cropping details given</i>		6.5	2	3	5	20.4	303	312
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366176/24	5	SEED FIELD <i>No cropping details given</i>		5.8	2	2+	3	24.4	230	105
366177/24	6	SLANG <i>No cropping details given</i>		6.2	3	3	2	43.0	365	85

Understanding your Soil Analysis - Mg

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
366172/24	1	COW PASTURE <i>No cropping details given</i>	6.3	2	3	5	23.4	241	309
366173/24	2	STONE PATCH <i>No cropping details given</i>	6.5	2	3	5	20.4	303	312
366174/24	3	WOODHOUSE 1 <i>No cropping details given</i>	6.3	2	2+	5	20.0	240	294
366175/24	4	WOODHOUSE 2 <i>No cropping details given</i>	6.4	2	2-	5	21.2	180	309
366176/24	5	SEED FIELD <i>No cropping details given</i>	5.8	2	2+	3	24.4	230	105
366177/24	6	SLANG <i>No cropping details given</i>	6.2	3	3	2	43.0	365	85

Nutrient lock up

Target

Understanding your Manure

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	10.1	%
Conductivity 1:6	3286	uS/cm
Total Kjeldahl Nitrogen	0.39	% w/w
Ammonium Nitrogen	1183	mg/kg
Total Phosphorus (P)	798	mg/kg
Total Potassium (K)	3680	mg/kg
Total Magnesium (Mg)	544	mg/kg
Total Copper (Cu)	3.37	mg/kg
Total Zinc (Zn)	36.5	mg/kg
Total Sulphur (S)	445	mg/kg

Comparing Slurry Samples to RB209 Values

Cattle Slurry	N	Amm	P	K	S	Mg
Farm	1.73	1.08	0.56	2.35	0.35	0.43
Lagoon	6.61	1.78	0.9	3.06	0.7	1.04
Sample 134771	3.9	1.18	1.84	4.42	1.11	0.92
RB209	3.6	0.72	1.8	3.4	1	0.1



Comparing Chicken Muck to RB209 Values

	N	Amm	P	K	S	Mg
1 DM 20%	69.1	46.067	2.461	25.08	11.2	12.444
2 DM 24%	39.6	6.532	19.09	29.64	13.25	11.39
3 DM 29%	49.4	18.378	20.102	45.72	18.65	11.611
4 DM 35%	72.5	20.063	22.494	42.36	18.125	12.75
5 DM 37%	37.1	33.547	18.423	48.6	20.325	10.727
6 DM 70%	51.1	8.731	22.678	57.12	23.525	14.671
RB209						
DM 20%	9.4		8	8.5	3	2.7
DM 40%	19		12	15	5.6	4.3
DM 60%	28		17	21	8.2	5.9
DM 80%	37		21	27	11	7.5

Any Further Questions?

