

Neal Kinsey NNTC Presentation



















St. Louis, Missouri January 12, 2017

(T.E.C.) x (Base Saturation %) x (M.E.) = Value in lbs. / acre

Field			1	LB / IA
Sample 2			W-B / C	
Lab N	Lab No. 3			
Total I	Exchange Capacity (M.I	≣.)	4	22.24
pH of	Soil Sample		5	6.00
Humu	s, Percent		6	2.90
	NITROGEN: ENF	R Value lbs / acre	7	78
NIONS	SULFATE - S:	p.p.m.	8	1
INY	() = OLSEI PHOSPHATES: as (P ₂ O ₅) lbs / acre	N P Desired Value Value Found Deficit	9	320 256 -64
SNOIL	CALCIUM: lbs / acre	Desired Value Value Found Deficit	10	6049 5603 -446
EXCHANGEABLE CATIONS	MAGNESIUM: lbs / acre	Desired Value Value Found Deficit	11	641 775 134
EXCHANG	POTASSIUM: lbs / acre	Desired Value Value Found Deficit	12	867 320 -547
	SODIUM:	lbs / acre	13	24
BAS	E SATURATION I	PERCENT		
Calcium (60 to 70%) Magnesium (10 to 20%) Potassium (2 to 7.5%) Sodium (.5 to 3%) Other Bases (Variable)			62.98 14.52 1.84 0.23 5.43	
EXCHANGEABLE HYDROGEN (10 to 15%) Cobalt (p.p.m.) 15			15.00	
Salinity 1:2 EC (dS/M) 16				
Chlorides (p.p.m.) 17 Boron (p.p.m.) 18			0.79	
Iron (p.p.m.) 19			342.00	
Manganese (p.p.m.) 20			67.00	
Cop	Copper (p.p.m.) 21			0.89
Zino	c (p.p.m.)		22	7.50







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Ag Technologies, LLC.









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(T.E.C.) x (Base Saturation %) x (M.E.) = Value in lbs. / acre

Field			1	
Sample 2			TR/MO	
Lab No. 3			BEANS	
Total I	Exchange Capacity (M.	E.)	4	23.17
pH of	Soil Sample		5	6.30
Humu	s, Percent		6	2.00
	NITROGEN: ENF	R Value lbs / acre	7	60
SNOIN	SULFATE - S:		8	13
INY	() = OLSE PHOSPHATES: as (P ₂ O ₅) lbs / acre	N P Desired Value Value Found Deficit	9	252 190 -62
SNOIL	CALCIUM: lbs / acre	Desired Value Value Found Deficit	10	6302 5352 -950
EXCHANGEABLE CATIONS	MAGNESIUM: lbs / acre	Desired Value Value Found Deficit	11	667 1314
EXCHANG	POTASSIUM: lbs / acre	Desired Value Value Found Deficit	12	580 351 -229
	SODIUM:	lbs / acre	13	116
BASE SATURATION PERCENT				
Calcium (60 to 70%) Magnesium (10 to 20%) Potassium (2 to 7.5%) Sodium (.5 to 3%) Other Bases (Variable) EXCHANGEABLE HYDROGEN (10 to 15%)			57.74 23.63 1.94 1.09 5.10 10.50	
Cobalt (p.p.m.) 15				
Salinity 1:2 EC (dS/M) 16 Chlorides (p.p.m.) 17				
Boron (p.p.m.) 18			1.13	
Iron (p.p.m.) 19			1412.00	
Manganese (p.p.m.) 20			75.00	
	oper (p.p.m.)		21	2.90 6.60
ZING	c (p.p.m.)		44	0.00



















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(T.E.C.) x (Base Saturation %) x (M.E.) = Value in lbs. / acre

Field			1	
Sample 2			KF / MO	
Lab N	Lab No. 3			
Total I	Exchange Capacity (M.	E.)	4	8.98
pH of	Soil Sample		5	6.20
Humu	s, Percent		6	2.10
	NITROGEN: EN	R Value lbs / acre	7	62
NOINS	SULFATE - S:		8	2
VINE	() = OLSE PHOSPHATES: as (P ₂ O ₅) lbs / acre	N P Desired Value Value Found Deficit	9	238 264
SNOIL	CALCIUM: lbs / acre	Desired Value Value Found Deficit	10	2443 2056 -387
EXCHANGEABLE CATIONS	MAGNESIUM: lbs / acre	Desired Value Value Found Deficit	11	259 388
EXCHANG	POTASSIUM: lbs / acre	Desired Value Value Found Deficit	12	316 487
	SODIUM:	lbs / acre	13	25
BASE SATURATION PERCENT				
Calcium (60 to 70%) Magnesium (10 to 20%) Potassium (2 to 7.5%) Sodium (.5 to 3%) Other Bases (Variable) EXCHANGEABLE HYDROGEN (10 to 15%)			57.24 18.00 6.95 0.61 5.20 12.00	
Cobalt (p.p.m.) 15				
Salinity 1:2 EC (dS/M) 16 Chlorides (p.p.m.) 17				
Boron (p.p.m.) 18			1.15	
Iron (p.p.m.) 19			493.00	
Manganese (p.p.m.) 20			74.00	
	pper (p.p.m.) c (p.p.m.)		21	2.70 10.10
Zifl	(p.p.iii.)		44	10.10







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(T.E.C.) x (Base Saturation %) x (M.E.) = Value in lbs. / acre

Field			1	JG / IL
Sample 2			B/C	
Lab N	Lab No. 3			
Total I	Exchange Capacity (M.	E.)	4	9.96
pH of	Soil Sample		5	6.10
Humu	s, Percent		6	1.40
	NITROGEN: ENF	R Value lbs / acre	7	48
SNO	SULFATE - S:		8	21
AN	() = OLSE PHOSPHATES:	N P Desired Value	9	320
	as (P ₂ O ₅) lbs / acre	Value Found Deficit		285 -35
TIONS	CALCIUM: lbs / acre	Desired Value Value Found Deficit	10	2709 2261 -448
EXCHANGEABLE CATIONS	MAGNESIUM: lbs / acre	Desired Value Value Found Deficit	11	287 460 173
EXCHANG	POTASSIUM: lbs / acre	Desired Value Value Found Deficit	12	388 261 -127
	SODIUM:	lbs / acre	13	88
BAS	SE SATURATION	PERCENT		
Calcium (60 to 70%) Magnesium (10 to 20%) Potassium (2 to 7.5%) Sodium (.5 to 3%) Other Bases (Variable) EXCHANGEABLE HYDROGEN (10 to 15%)			56.75 19.24 3.36 1.92 5.23 13.50	
Cobalt (p.p.m.) 15 Salinity 1:2 EC (dS/M) 16				
Chlorides (p.p.m.) 17				
Boron (p.p.m.) 18			0.96	
Iron (p.p.m.) 19 Manganese (p.p.m.) 20		963.00 124.00		
Copper (p.p.m.) 21			3.00	
	c (p.p.m.)		22	9.30







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(T.E.C.) x (Base Saturation %) x (M.E.) = Value in lbs. / acre

Field			1	
Sample 2			4	
Lab No. 3			PH / PA	
Total I	Exchange Capacity (M.	E.)	4	9.84
pH of	Soil Sample		5	6.90
	s, Percent		6	2.50
	5,1 6,6611			2.00
	NITROGEN: ENF	R Value lbs / acre	7	70
ANIONS	SULFATE - S:	p.p.m.	8	10
₹	() = OLSE PHOSPHATES:		9	238
-	as (P ₂ O ₅)	Value Found	9	1134
	lbs / acre	Deficit		
EXCHANGEABLE CATIONS	CALCIUM: lbs / acre	Desired Value Value Found Deficit	10	2676 2687
	MAGNESIUM: lbs / acre	Desired Value Value Found Deficit	11	283 387
EXCHANG	POTASSIUM: lbs / acre	Desired Value Value Found Deficit	12	313 645
	SODIUM:	lbs / acre	13	43
BAS	E SATURATION	PERCENT		
Calcium (60 to 70%) Magnesium (10 to 20%) Potassium (2 to 7.5%) Sodium (.5 to 3%) Other Bases (Variable) EXCHANGEABLE HYDROGEN (10 to 15%)			68.26 16.39 8.40 0.95 4.50 1.50	
Cobalt (p.p.m.) 15				
Salinity 1:2 EC (dS/M) 16				
Chlorides (p.p.m.) 17			0.00	
Boron (p.p.m.) 18 Iron (p.p.m.) 19			0.69 163.00	
			20	230.00
Copper (p.p.m.) 21			2.40	
	(p.p.m.)		22	9.40



















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(T.E.C.) x (Base Saturation %) x (M.E.) = Value in lbs. / acre

Field			1	ONE 20 AC
Sample 2			Α	
Lab No. 3			EF / IN	
Total I	Exchange Capacity (M.	E.)	4	15.87
pH of	Soil Sample		5	6.80
Humu	s, Percent		6	1.90
	NITROGEN: ENF	R Value lbs / acre	7	58
NOINS	SULFATE - S:	p.p.m.	8	16
INY	() = OLSE PHOSPHATES: as (P ₂ O ₅) lbs / acre	N P Desired Value Value Found Deficit	9	244 417
EXCHANGEABLE CATIONS	CALCIUM: lbs / acre	Desired Value Value Found Deficit	10	4315 4452
	MAGNESIUM: lbs / acre	Desired Value Value Found Deficit	11	456 719
EXCHANG	POTASSIUM: lbs / acre	Desired Value Value Found Deficit	12	463 310 -153
	SODIUM:	lbs / acre	13	63
BAS	E SATURATION	PERCENT		
Calcium (60 to 70%) Magnesium (10 to 20%) Potassium (2 to 7.5%) Sodium (.5 to 3%) Other Bases (Variable) EXCHANGEABLE HYDROGEN (10 to 15%)			70.15 18.88 2.50 0.86 4.60 3.00	
Cobalt (p.p.m.) 15				
Salinity 1:2 EC (dS/M) 16 Chlorides (p.p.m.) 17				
Boron (p.p.m.) 18			0.84	
Iron (p.p.m.) 19			376.00	
Manganese (p.p.m.) 20			79.00	
	Copper (p.p.m.) 21			2.40
Zino	c (p.p.m.)		22	7.00



















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(T.E.C.) x (Base Saturation %) x (M.E.) = Value in lbs. / acre

Field			1	
Sample 2			C/B	
Lab No. 3			IA	
	Exchange Capacity (M.	E)	4	37.64
		L.)		
pH of	Soil Sample		5	7.30
Humu	s, Percent		6	3.80
	NITROGEN: ENF	R Value lbs / acre	7	88
ANIONS	SULFATE - S:		8	3
AM	() = OLSE PHOSPHATES:		9	300
	as (P ₂ O ₅)	Value Found	9	505
		Deficit		205
				40000
S	CALCIUM: lbs / acre	Desired Value	10	10238 12646
O	ibs / acre	Value Found Deficit		2408
ΑTI		Bellok		2100
S	MAGNESIUM:	Desired Value	11	1084
BLI	lbs / acre	Value Found		940
EA		Deficit		-144
EXCHANGEABLE CATIONS	DOTA COULT			077
¥	POTASSIUM:	Desired Value Value Found	12	677 406
×	lbs / acre	Deficit		-271
ш		Donor		
	SODIUM:	lbs / acre	13	22
BAS	SE SATURATION I	PERCENT		
_	-l-i (60 to 70%)	,	14	83.99
	alcium (60 to 70%) agnesium (10 to 20%)	} 80%	14	10.41
Potassium (2 to 7.5%)			1.38	
Sodium (.5 to 3%)			0.13	
Other Bases (Variable)			4.09	
EXCHANGEABLE HYDROGEN (10 to 15%)			0.00	
Cobalt (p.p.m.) 15				
Salinity 1:2 EC (dS/M) 16 Chlorides (p.p.m.) 17				
Boron (p.p.m.) 18			1.07	
Iron (p.p.m.) 19			71.00	
Manganese (p.p.m.) 20			70.00	
Copper (p.p.m.) 21			0.51	
Zin	c (p.p.m.)		22	7.00

















