

CCS FERTILITY CALCULATOR FOR SOYBEAN

SHEET 1

TEST LAB	Waters		Test Date	5/1/16		DATE	5/12/16		CUSTOMER NAME					
FIELD	FLD: 1,2,3,4,5,6					CROP	SOYBEAN		Square D Soybean		Client..Soybean			
Base Ca	Base Mg	Base K	Ca	Mg	K	P Lb/A	S Lb/A	B Lb/A	Zn Lb/A	Mn Lb/A	Fe Lb/A	Cu Lb/A		
0.53	0.10	0.020	Calculated From Base Sat.			17.33	109.0	1.40	4.5	15.7	19.7	1.27		
Gypsum	Hi Cal	Dolomite	Ca	Mg	K	P	S	B	Zn	Mn	Fe	Cu		
450		1157	(45.5)	(97.8)	51.4	78.67	(134.95)	(0.20)	2.67	15.53	4.33	(0.31)		
CEC	pH	CEC x ³	Al,Mn TOXIC & POOR N AVAILABILITY APPLY THE LIME AND/OR GYPSUM SOURCE AS SOON AS POSSIBLE				Phosphorus override				Potassium Override			
6.4	5.3	1.2					Ca %		Mg %		K %		Nitrogen Override	
SOYBEAN							0.65		0.11		0.03		SOYBEAN BU./AC.	
1			Production Nutrient Requirements in Lbs/Ac Per Year								LCD	10.0		
NUTRIENTS		N	P ₂ O ₅	K ₂ O	Ca	Mg	S	B	Zn	Mn	Fe	Cu		
SOIL BASE NEEDS		6	180	62	(45)	(97.8)	(135.0)	(0.200)	2.67	15.53	4.33	(0.307)		
CROP REMOVAL		188	66	141	41.3	11.3	15.0	0.188	0.56	0.94	0.75	0.188		
TOTAL REQUIRED		13	123	202	(4)	(86.6)	(120.0)	(0.013)	3.23	16.47	5.08	(0.119)		
LB/AC	ANALYSIS	1	12	20					0.32	1.65	0.51			
300.0	SPM			64.5		33.0	64.5							
25.0	3-9-9 ST	0.75	2.25	2.25				0.008						
700.0	2-14-20 SB DB	14	126	140				0.070	3.19	9.80	4.20			
TOTAL ADDED NUT.		15	128	207		33.0	64.5	0.078	3.19	9.80	4.20			
Nutrient Deficit		(2)	(5)	(4)	(4)	(119.6)	(184.5)	(0.090)	0.04	6.67	0.88	(0.119)		
NOTE:	Proper pH is very important. Correction of pH and calcium deficiencies should be made prior to planting.									If P ₂ O ₅ starter enter 1		1		
70 - 80% of required nitrogen is supplied via bacteria in nodules. If the yield exceeds 70 bushel/acre for soybeans, additional nitrogen is recommended														
TARGET YIELD IS 75 Bu/Ac. AND 13 APPLIED LBS OF NITROGEN COULD INCREASE YIELD.														

FERTILIZER BLEND ANALYSIS FROM CALCULATION SHEET												SHEET 2
DATE	05/12/16	Inoculate with your pop-up and side-dress fertilizer to stimulate microbial diversity Mo may be deficient										
Test Date	05/01/16	Field	FLD: 1,2,3,4,5,6					Customer	Square D Soybean			
NUTRIENTS		N	P ₂ O ₅	K ₂ O	Ca	Mg	S	B	Zn	Mn	Fe	Cu
TOTAL REQUIRED		13	123	202	(4)	(87)	(120)	(0.013)	3.23	16.47	5.08	(0.119)
LB/AC	ANALYSIS	1	12	20					0.32	1.65	0.51	
	MURIATE			60%								
	10-2-10	10%	2%	10%			3.0%					0.010%
300.0	SPM			22%		11.0%	21.5%					
	ACS											
25.0	3-9-9 ST	3%	9%	9%				0.030%				
	TIGER 90						90.0%					
	8-2-10	8%	2%	10%			3.0%		0.20%	0.40%	0.40%	0.030%
	10-0-10	10%		10%		20.0%		0.030%	0.02%	0.40%	0.03%	0.010%
	19-0-0	19%										
	5-0-20 KTS	5%		2%			13.0%					
	4-0-16	4%		16%								
	10-34-0	10%	34%									
	18-0-0	18%					5.0%					
	0-0-43 C			43%		3.6%	12.0%					
	SOP			50%			17.0%					
	9-0-0 Cal.	9%						0.020%				
	12-12-0 S	12%	12%					0.033%				
700.0	2-14-20 SB DB	2.00%	18.00%	20.00%				0.010%	0.46%	1.40%	0.60%	
NUTRIENTS FROM BLENDS		15	128	207		33.0	64.5	0.08	3.19	9.80	4.20	
COMBINED NUT. STATUS		(2)	(5)	(4)	(4)	(120)	(184)	(0.090)	0.04	6.67	0.88	(0.119)
SEE COMMENTS BELOW		N	P ₂ O ₅	K ₂ O	Ca	Mg	S	B	Zn	Mn	Fe	Cu
RECOMMENDATIONS MADE ON THIS REPORT ARE BASED ON SOIL AND OTHER INFORMATION AS SUPPLIED BY THE CUSTOMER OR CUSTOMERS AGENT. SEASONAL ADJUSTMENTS MAY HAVE TO BE MADE DUE TO WEATHER, VARIETY, CULTURAL, IRRIGATION OR DISEASE/PEST CONDITIONS ENCOUNTERED DURING THE GROWING SEASON. IT IS VERY IMPORTANT TO BALANCE BASE CATIONS TO RECOMMENDED LEVELS. CALCIUM AND MAGNESIUM SHOULD BE DERIVED FROM DOLOMITE IF pH IS LOW, OTHERWISE USE GYPSUM FOR CALCIUM AND SULPO-MAG OR OTHER SUITABLE MAGNESIUM SOURCE. IF FOLIARS ARE SUBSTITUTED FOR SOIL T.M. TAKE THE SOIL DEFICIENCY AND DIVIDE BY 6 - 9 TO DETERMINE FOLIAR RATE TO APPLY IN LB/AC.				LIME AND/OR GYPSUM			The fertilizer analysis 2-14-20 SB DB should be					
				APPLY GYPSUM AT 450 Lb/Acre			This fertilizer should be applied ppt broadcast for large population plantings or side dressed for lower plant density. The rate is based on a population of soybeans ~ 160,000 per acre for large density and less than 100,000 for small density plantings. The 3-9-9 should be applied at planting with the seeds for best results. If an inoculation is used, it can be included with this application as well. The ACS should be applied at 6 - 16 fl/oz per acre with the 3-9-9 starter/pop-up and then applied again with fungicide or other fertilizer applications. SEE THE DR. PLANK LIMESTONE CALC SHEET FOR EXACT AMENDMENTS/AC.					
				APPLY DOLOMITE AT 1,157 Lb/Acre								
				It is important to understand the growth characteristics of soybean varieties. Indeterminant varieties are suited for zone 5 and earlier and determinant varieties are suited for later zones. This growth habit will help determine the fertility timing. DOLOMITE &/or GYPAUM MAY BE NEEDED TO CORRECT THE BASE SATURATION OF CALCIUM.								

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