2012 LTER Agronomic Protocol Kellogg Biological Station

Main Site Treatment 8nt: No-till Agriculture on Historically Never Tilled Land (T8nt)

Growing Season:	2012							
Rotation: S	<u>oybeans</u> – Winter V	Vheat — Corn	Tillage:	Conventional				
Tillable Acres:	0.77	Current Crop:	Soybean	Previous Crop:	Corn	Yield Goal:	40 bu/A	
Planting Date: _	May 2012	Planting	Population:	180,000 seeds/A	Variety:		neer 92Y30	
Row Spacing: _	15 inches Planting Depth:		1 inches	Insecticide		None		
Cover Crop: _	None						- d 1849	
Harvest Date:	September – Octobe	er 2012						
Tillage Operations A No-till. Corn planted in the end of June.		essure controlled w	ith an application	of Roundup + AMS in Ju	ne. Fertilized with	130 lbs/A N applie	d as 28% fertilizer at	
Tillage Operations a Tillage: No-till. DO N		This Year:						
Cover Crop: 2011 Nor	е							
Fertilizer: Fertilizer the	same as T2.							
Weed/Insect Control	Transfer and an artist and a first							
Soil Commis Amely	in Decile from							
Soil Sample Analys oH:				Magnesium (Mg): p	nnm D1 121 D	2 120 P2 167 P4	157 DE 101 DO 111	
.ime Index:	R1 5.8, R2 5.7, R3 5.9, R4 5.9, R5 5.7, R6 6.0 Index: R1 68, R2 67, R3 67, R4 68, R5 67, R6 69			Calcium (Ca): ppm		R1 131, R2 139, R3 167, R4 157, R5 161, R6 14 R1 914, R2 770, R3 870, R4 863, R5 783, R6 72		
litrogen (N):				C.E.C.: (meq/100 g) R1 8.3, R2 8.8, R3 9.6, R4 8.3, R5 9.1				
Phosphorus (P): ppm	R1 25, R2 34, R3	28, R4 35, R5 18, I	R6 43	% O.M.:	10.0,142	2 0.0, 10 3.0, 104 0	3, N3 3.1, N0 0.1	
Potassium (K): ppm		3 95, R4 105, R5 89		Others:				
ertility Fertilizer	Recommendation	1:					M.	
ime ton/A: Avg. = : R1 , R2 , R3 , R4 , R5 , R6				K ₂ O lb/A: Avg. = : R1 , R2 , R3 , R4 , R5 , R6				
litrogen lb/A: Avg	= : R1 , R2 , R3 ,	R4 , R5 , R6		Other:				
² 20 ₅ lb/A: Avg	= : R1 , R2 , R3 , l	R4 , R5 , R6		_	1882			
Differences from Pr	ior Rotations:							
		orn. The rotation dic	I not follow the ma	ain site in 2010 and 2011	but was adjusted f	to follow the crop the	ne was in the interac	
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
comments:	Walter Walter						275000	
							100000	

This is a working protocol used for planning purposes. Due to potential changes in chemicals, fertilizer, varieties planted, planting dates etc... please refer to the agronomic field log for actual field operations that take place during 2012.

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Main Site Treatment 8: Mid-succession Never Tilled (T8)

Annually mow entire plots in the fall.								
Make sure sample stations are removed prior to mowing. Re-flag the sampling stations after mowing is completed.								