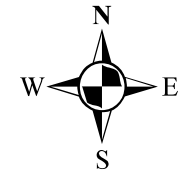


Logeman Brothers

Individual Fields

Soil Map



Legend

- Fields
- Water
- Water Buffer
- Wells
- Well Buffer
- Finisher Buildings
- Existing Land Treatment
- Waste Holding Pond

860

Feet

 **Frank & West**
Environmental Engineers, Inc.
7226 N. State Route 29 Phone: 217/487-7686
Springfield, IL 62707 Fax: 217/487-7687

Individual Field Information**Logeman Brothers Farm**

Field Name:	<u>Pug Farm</u>	Total Acres	90.2
		Non-Spreadable Acres	8.9
Township	T14S-R4E	Total Spreadable Acres	81.3
Section	23		
			8382A Bilknap silt loam, 0-2% slopes, occasionally flooded
FSA Farm #	2510	Predominant Soil Type:	
FSA Tract #	463	P test	65.49
	1-6, 8-9,		
FSA Field #'s	15,19	K test	203.01

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Corn	Beans	Corn	Beans	Corn	Beans
Yield	(bu/acre OR ton/acre)		60	200	60	200	60
N needed (lbs/ac)	lbs/ac		0	240	0	240	0
- Legume N credits	(lb/acre)		0	40	0	40	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		9.6	4.8	11.9	6.0	11.8
Total N Credits	(lb/acre)		9.6	44.8	11.9	46.0	11.8
Crop N Need Minus Credits	(lb/acre)		-9.6	195.2	-11.9	194.0	-11.8
Maintenance P needed *	(lb/acre)		51.0	86.0	51.0	86.0	51.0
Maintenance K needed *	(lb/acre)		78.0	56.0	78.0	56.0	78.0

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

Logeman Brothers Farm							
Pug Farm		2009	2010	2011	2012	2013	2014
Manure Application		Corn	Beans	Corn	Beans	Corn	Beans
Storage		West Finisher		West Finisher		West Finisher	
Application Method		Inject		Inject		Inject	
Storage/Application Method				LINE2		LINE2	
1st Year Available N (<i>Am-N * N retention due to app method</i>) + (<i>OrgN * .35</i>)	(lb/1000 gal)			14.01		14.01	
N App Rate (<i>Crop N Need / 1st Yr Av N</i>)	(1000 gal/acre)			13.9		13.9	
P App Rate (<i>Maintenance P / P in analysis</i>)	(1000 gal/acre)			11.32		11.32	
Apply at Prate or Nrate?				Nrate		Nrate	
Application Rate to Use	(1000 gal)	14.0	0.0	13.9	0.0	13.9	0.0
Total application (<i>App Rate * Spreadable Acres</i>)	(gallons)			1,133,118		1,126,310	
N applied (<i>1st Year AvN * App rate</i>)	(lb/acre)			195		194	
P applied (<i>P in manure * App rate</i>)	(lb/acre)			106		105	
K applied (<i>K in manure * App rate</i>)	(lb/acre)			364		362	
Additional N Needed	(lb/acre)		-10	0	-12	0	-12
Acres Covered	(acres)		0.0	81.3	0.0	81.3	0.0