4/16/2013

2013 Corn Yield Potential Study

Farm Name:

Farm Address:

City:　　　　　　　　　　　**State:**　　　　　　　**Zip:**

Crop Year: 　2013

Questions?　　**Contact:**　Quirine Ketterings qmk2@cornell.edu, 607-255-3061

Field History Survey

1) Field ID　　　　　　　　　**2) Field Size**　　　　　　　　　　acres

3) County　　　　　　　　　　**4) Soil Type**

5) Drained or Undrained　　　**6) Crop Variety** (company and variety ID)

7) Planting Date　　　　　　　**8) BMR? Y / N**

9) Planting Density (for corn)　　**10) 30"-36", 15",or Twin Rows?**

11) Cover Crops in Rotation?

		12) Crop Rotation	Sod	Crop Code - Name	
Yes/No		2014		– Corn	Silage or grain corn?
If yes…….What Year?		2013		– Corn	Silage or grain corn?
…….What Cover Crop?		2012		– Corn	Silage or grain corn?
		2011			?
		2010			?

13) If Rotation Included Sod, Estimated % Legume When Rotated into Corn?　　**14) For Sod: Terminated When?**　　**15) For Sod: Terminated How?**

<1 Legume	**Spring**	**Chemical**	
1-25% Legume	**Before Labor Day**	**Plowdown**	
26-50% Legume	**After Labor day**	**Other**	
>50% Legume	**Other**		

Field History Data Collection Sheet

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16) Current and Past Manure Applications

	2013 Growing Season		2012 Growing Season	2011 Growing Season
	Application #1	**Application #2**	**Sum of Applictions**	**Sum of Applications**
Animal Type				
Rate				
Gallons/acre or Ton/acre?				
Month				

17) Application Method

Injected				
Incorporated in 1 day				
Incorporated in 2 days				
Incorporated in 3 days				
Incorporated in 4-5 days				
Incorporated after 5 days				
Not Incorporated				

18) Incorporation Equip.

(eg: moldboard plow, chisel plow, disc, turbo disc, field cultivator, aeration tool)

19) Manure Analysis

	2013		2013		2012		2011	
Density		lbs/gal		lbs/gal		lbs/gal		lbs/gal
% Solids		% as is		% as is		% as is		% as is
Inorgani-N		% as is		% as is		% as is		% as is
Organic-N		% as is		% as is		% as is		% as is
P_2O_5		% as is		% as is		% as is		% as is
K_2O		% as is		% as is		% as is		% as is

20) How do you plan to harvest the field and collect yield data? This information will be used to develop farm specific protocols for PSNT-time soil sampling, stand count, and harvest-time CSNT sample collection:

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21) Fertilizers for Crops in: __2013__

	Fertilizer #1	Units	Fertilizer #2	Units	Fertilizer #3	Units
Application Date						
Nitrogen (N)		%		%		%
Phosphorus (P_2O_5)		%		%		%
Potassium (K_2O)		%		%		%
Application Rate						
Gallons/acre or Lbs/acre?						
If Liquid, Density?		lbs/gal		lbs/gal		lbs/gal
Application Method						

(preplant/broadcast, preplant/broadcast & incorporate, starter/banded, starter/popup, sidedress/broadcast, topdress, sidedress/incorporate)

22) Did Any of the Following Conditions Occur this Year (#1 = most impact, #6 = least impact):

- weed pressure - insect damage - hail damage - severe compaction - lodging - other   Define "other"

#1		#2		#3		
#4		#5		#6		

23) Crop Yield?

Amount	Units	If Bales, Bale Weight?	% Moisture
	wet ton/acre		

24) Additional Field Information of Relevance?

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25) Most Recent Soil Test Data

Lab Name	Date	Sample ID	Extraction Method	pH

P (lbs/acre) (Morgan Extraction or Converted)	K (lbs/acre) (Morgan Extraction or Converted)	Mg (lbs/acre)	Ca (lbs/acre)	Ex. Acidity (ME/100g)

Al (lbs/acre)	Fe (lbs/acre)	Mn (lbs/acre)	Zn (lbs/acre)	OM (%)

Buffer pH	CNAL LOI (%)*	CNAL - ISNT-N (ppm)*	ISNT-N Critical Value (ppm)	PSNT (ppm)

pH CaCl$_2$	pH (0-1 inch; notill)	Soluble Salts (mmho)	B (lbs/acre)	CEC (NH$_4$OAc)