

-  Fields
-  Water
-  Water Buffer
-  Well
-  Well Buffer
-  Tile Risers
-  Existing Structures

Feet



Individual Field Information**Dare Farms**

Field Name:	<u>Triple D - 1</u>	Total Acres	89.5
		Non-Spreadable Acres	0.0
Township	Canton	Total Spreadable Acres	89.5
Section	2		
FSA Farm #	6147	Predominant Soil Type:	279B Rozetta silt loam, 2-5% slopes
FSA Tract #	29629	P test	40
FSA Field #'s	1	K test	191

Individual Field Application & Nutrients

Crop needs	Year	2008	2009	2010	2011	2012	2013
Crop		Corn	Corn	Corn	Corn	Corn	Corn
Yield	(bu/acre OR ton/acre)		175	175	175	175	175
N needed (lbs/ac)	lbs/ac		210	210	210	210	210
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		14.2	21.2	10.6	24.2	30.1
Total N Credits	(lb/acre)		14.2	21.2	10.6	24.2	30.1
Crop N Need Minus Credits	(lb/acre)		196	189	199	186	180
Maintenance P needed *	(lb/acre)		75.25	75.25	75.25	75.25	75.25
Maintenance K needed *	(lb/acre)		49	49	49	49	49

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

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

Dare Farms							
Triple D - 1		2008	2009	2010	2011	2012	2013
Manure Application		Corn	Corn	Corn	Corn	Corn	Corn
Storage		Liquid	Liquid		Liquid	Liquid	
Application Method		Inject	Inject		Inject	Inject	
Storage/Application Method		LINE1	LINE1		LINE1	LINE1	
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)		11.84		11.84	11.84	
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)		16.5		16.8	15.7	
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)		4.95		4.95	4.95	
Apply at Prate or Nrate?			Nrate		Nrate	Nrate	
Application Rate to Use	(1000 gal)	6.0	6.0	0.0	8.0	8.0	0.0
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)		537,000		716,000	716,000	
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)		71		95	95	
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)		71		122	122	
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)		91		151	151	
Additional N Needed	(lb/acre)		125	189	105	91	180
Acres Covered	(acres)		89.5	0.0	89.5	89.5	0.0

Individual Field Information**Dare Farms**

Field Name:	<u>Triple D - 2</u>	Total Acres	37.6
		Non-Spreadable Acres	0.0
Township	Canton	Total Spreadable Acres	37.6
Section	2		
FSA Farm #	6147	Predominant Soil Type:	279B Rozetta silt loam, 2-5% slopes
FSA Tract #	29629	P test	50
FSA Field #'s	2	K test	295

Individual Field Application & Nutrients

Crop needs	Year	2008	2009	2010	2011	2012	2013
Crop		Corn	Corn	Corn	Corn	Corn	Corn
Yield	(bu/acre OR ton/acre)		175	175	175	175	175
N needed (lbs/ac)	lbs/ac		210	210	210	210	210
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		14.2	21.2	10.6	24.2	30.1
Total N Credits	(lb/acre)		14.2	21.2	10.6	24.2	30.1
Crop N Need Minus Credits	(lb/acre)		196	189	199	186	180
Maintenance P needed *	(lb/acre)		75.25	75.25	75.25	75.25	75.25
Maintenance K needed *	(lb/acre)		49	49	49	49	49

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

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

Dare Farms							
Triple D - 2		2008	2009	2010	2011	2012	2013
Manure Application		Corn	Corn	Corn	Corn	Corn	Corn
Storage		Liquid	Liquid		Liquid	Liquid	
Application Method		Inject	Inject		Inject	Inject	
Storage/Application Method			LINE1		LINE1	LINE1	
1st Year Available N (<i>Am-N * N retention due to app method</i>) + (<i>OrgN * .35</i>)	(lb/1000 gal)		11.84		11.84	11.84	
N App Rate (<i>Crop N Need / 1st Yr Av N</i>)	(1000 gal/acre)		16.5		16.8	15.7	
P App Rate (<i>Maintenance P / P in analysis</i>)	(1000 gal/acre)		4.95		4.95	4.95	
Apply at Prate or Nrate?			Nrate		Nrate	Nrate	
Application Rate to Use	(1000 gal)	6.0	6.0	0.0	8.0	8.0	0.0
Total application (<i>App Rate * Spreadable Acres</i>)	(gallons)		225,600		300,800	300,800	
N applied (<i>1st Year AvN * App rate</i>)	(lb/acre)		71		95	95	
P applied (<i>P in manure * App rate</i>)	(lb/acre)		71		122	122	
K applied (<i>K in manure * App rate</i>)	(lb/acre)		91		151	151	
Additional N Needed	(lb/acre)		125	189	105	91	180
Acres Covered	(acres)		37.6	0.0	37.6	37.6	0.0

Individual Field Information**Dare Farms**

Field Name:	<u>Triple D - 3N</u>	Total Acres	39.0
		Non-Spreadable Acres	0.0
Township	Canton	Total Spreadable Acres	39.0
Section	2		
FSA Farm #	6147	Predominant Soil Type:	279B Rozetta silt loam, 2-5% slopes
FSA Tract #	29629	P test	34
FSA Field #'s	3	K test	156

Individual Field Application & Nutrients

Crop needs	Year	2008	2009	2010	2011	2012	2013
Crop		Corn	Corn	Corn	Corn	Corn	Corn
Yield	(bu/acre OR ton/acre)		175	175	175	175	175
N needed (lbs/ac)	lbs/ac		210	210	210	210	210
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	14.2	21.2	10.6	24.2
Total N Credits	(lb/acre)		0	14.2	21.2	10.6	24.2
Crop N Need Minus Credits	(lb/acre)		210	196	189	199	186
Maintenance P needed *	(lb/acre)		75.25	75.25	75.25	75.25	75.25
Maintenance K needed *	(lb/acre)		49	49	49	49	49

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

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

Dare Farms							
Triple D - 3N		2008	2009	2010	2011	2012	2013
Manure Application		Corn	Corn	Corn	Corn	Corn	Corn
Storage			Liquid	Liquid		Liquid	Liquid
Application Method			Inject	Inject		Inject	Inject
Storage/Application Method			LINE1	LINE1		LINE1	LINE1
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)		11.84	11.84		11.84	11.84
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)		17.7	16.5		16.8	15.7
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)		4.95	4.95		4.95	4.95
Apply at Prate or Nrate?			Nrate	Nrate		Nrate	Nrate
Application Rate to Use	(1000 gal)	0.0	6.0	6.0	0.0	8.0	8.0
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)		234,000	234,000		312,000	312,000
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)		71	71		95	95
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)		71	91		122	122
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)		91	114		151	151
Additional N Needed	(lb/acre)		139	125	189	105	91
Acres Covered	(acres)		39.0	39.0	0.0	39.0	39.0