

**Projected Soil P & K Levels**  
**Dare Farms**

Field Name	Acres	Current Soil Test		Change in Test		Projected Soil Test		Time to Reach 300 lbs/ac
		P	K	P	K	P	K	
Triple D - 1	89.5	40	191	-6	27	34	218	-162
Triple D - 2	37.6	50	295	-6	27	44	322	-156
Triple D - 3N	39	34	156	4	55	38	211	285
NW Field	77.8	33	215	2	58	35	273	457
North Rob's	33.4	33	185	47	214	80	399	23
Harold's 80	83	60	308	26	142	86	450	36
11th Avenue	148.6	27	238	25	136	52	374	44
Phil's	75	43	405	11	97	54	502	95
Phil's Bottom	26	39	369	-6	27	33	396	-163
Double D	115	63	205	7	65	70	270	133
Silo Field	38	123	510	39	144	162	654	18
East Buildings	48.5	211	619	27	111	238	730	13
South House	69.2	143	422	24	58	167	480	26
N Harold's	19.6	33	185	33	174	66	359	33
Freeman's	103.4	53	349	-11	20	42	369	-88
Hach	94.62	39	167	68	289	107	456	15
Keep	49.96	38	238	51	228	89	466	21

*Change in Soil Test = Crop uptake for 2007-2010 - Nutrients applied to field for 2007-2010 in manure*

*9 lbs P required to change soil test 1 lb*

*4 lbs K required to change soil test 1 lb*

*Projected levels are based on planned crop rotations and planned manure applications.*

Dare Farms  
Supplemental Nutrients  
Crop Year 2010

Recommended Supplemental Nutrients if No Manure is Applied

Field Name	Acres	Crop	Yield	lbs N/ac	lbs P2O5 for Maintenance	lbs P2O5 for Buildup *	lbs K2O for Maintenance	lbs K2O for Buildup **
Triple D - 1	89.5	Corn	175	210	75	11	49	69
Triple D - 2	37.6	Corn	175	210	75	0	49	0
Triple D - 3N	39	Corn	175	210	75	25	49	104
NW Field	77.8	Corn	200	240	86	27	56	45
North Rob's	33.4	Corn	200	240	86	27	56	75
Harold's 80	83	Corn	200	240	86	0	56	0
11th Avenue	149	Corn	200	240	86	41	56	22
Phil's	75	Corn	200	240	86	5	0	0
Phil's Bottom	26	Corn	175	210	75	14	0	0
Double D	115	Corn	175	210	75	0	49	55
Silo Field	38	Corn	200	240	86	0	0	0
East Buildings	48.5	Corn	200	240	0	0	0	0
South House	69.2	Silage	34	204	0	0	0	0
N Harold's	19.6	Corn	200	240	86	27	56	75
Freeman's	104	Corn	200	240	86	0	56	0
Hach	96.27	Corn	200	240	86	101	56	93
Keep	49.96	Corn	200	240	86	16	56	22

Crop Year 2011

Recommended Supplemental Nutrients if No Manure is Applied

Field Name	Acres	Crop	Yield	lbs N/ac	lbs P2O5 for Maintenance	lbs P2O5 for Buildup *	lbs K2O for Maintenance	lbs K2O for Buildup **
Triple D - 1	89.5	Corn	175	210	75	11	49	69
Triple D - 2	37.6	Corn	175	210	75	0	49	0
Triple D - 3N	39	Corn	175	210	75	25	49	104
NW Field	77.8	Corn	200	240	86	27	56	45
North Rob's	33.4	Corn	200	240	86	27	56	75
Harold's 80	83	Corn	200	240	86	0	56	0
11th Avenue	149	Corn	200	240	86	41	56	22
Phil's	75	Corn	200	240	86	5	0	0
Phil's Bottom	26	Corn	175	210	75	14	0	0
Double D	115	Corn	175	210	75	0	49	55
Silo Field	38	Corn	200	240	86	0	0	0
East Buildings	48.5	Silage	34	204	0	0	0	0
South House	69.2	Corn	200	240	0	0	0	0
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Freeman's	104	Corn	200	240	86	0	56	0
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Keep	49.96	Corn	200	240	86	16	56	22

# Crop Year 2012

## Recommended Supplemental Nutrients if No Manure is Applied

Field Name	Acres	Crop	Yield	lbs N/ac	lbs P2O5 for Maintenance	lbs P2O5 for Buildup *	lbs K2O for Maintenance	lbs K2O for Buildup **
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11th Avenue	149	Corn	200	240	86	41	56	22
Phil's	75	Corn	200	240	86	5	0	0
Phil's Bottom	26	Corn	0	210	75	14	0	0
Double D	115	Corn	175	210	75	0	49	55
Silo Field	38	Silage	34	204	0	0	0	0
East Buildings	48.5	Corn	200	240	0	0	0	0
South House	69.2	Corn	200	240	0	0	0	0
N Harold's	19.6	Corn	200	240	86	27	56	75
Freeman's	104	Corn	200	240	86	0	56	0
Hach	96.27	Corn	200	240	86	14	56	93
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# Crop Year 2013

## Recommended Supplemental Nutrients if No Manure is Applied

Field Name	Acres	Crop	Yield	lbs N/ac	lbs P2O5 for Maintenance	lbs P2O5 for Buildup *	lbs K2O for Maintenance	lbs K2O for Buildup **
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Phil's Bottom	26	Corn	175	210	75	14	0	0
Double D	115	Corn	175	210	75	0	49	55
Silo Field	38	Corn	200	240	0	0	0	0
East Buildings	48.5	Corn	200	240	0	0	0	0
South House	69.2	Silage	34	204	0	0	0	0
N Harold's	19.6	Corn	200	240	86	27	56	75
Freeman's	104	Corn	200	240	86	0	56	0
Hach	96.27	Corn	200	240	86	14	56	93
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\* Buildup is based on buildup applications applied over a 4 year period. So, buildup = (9(Desired soil test - Actual soil test))/4

\*\* Buildup is based on buildup applications applied over a 4 year period. So, buildup = (4(Desired soil test - Actual soil test))/4

## Value of Manure Compared to Fertilizer

### Commercial Fertilizer

Market Value as of April 1,2008

Nitrogen	Price per Ton	Price per pound of N
Anhydrous Ammonia (NH3)	\$795	\$0.48
Liquid 28% (28%N)	\$380	\$0.68

Phosphorus	Price per Ton	Price per pound of P2O5	Price per pound of N
DAP (18-46-0)	\$1,100	\$1.20	\$3.06

Potassium	Price per Ton	Price per pound of K2O
Potash (0-0-60)	\$700	\$0.58

*\*Price does not include application cost.*

### What is the value of Manure generated by the farm?

*price per 1000 gal for liquid manure and price per ton for solid manure, based upon average market value of comercial fertilizer*

	N	P2O5	K2O
Liquid	\$12.04	\$18.17	\$11.03
Solid	\$12.15	\$21.52	\$15.17

Facilty	Manure Produced	Value of Manure Based on N	Value of Manure Based on P2O5
Liquid	3,730,575 Gal	\$44,908.16	\$67,799.15
Solid	4,772 ton	\$57,997.05	\$102,701.74
<b>Total</b>		<b>\$102,905.21</b>	<b>\$170,500.88</b>

### Manure

Analysis estimates from Midwest Plan Service

	Total N	P2O5	K2O
<b>Cattle</b>	<i>lbs/1000 gal raw waste</i>		
<b>Liquid</b>	<b>20.8</b>	<b>15.2</b>	<b>18.9</b>
<b>Cattle</b>	<i>lbs/ton raw waste</i>		
<b>Solid</b>	<b>21</b>	<b>18</b>	<b>26</b>