

**Individual Field Information**

**Car-Mer Dairy**

<b>Field Name:</b>	<u>Oldenburg</u>	<b>Total Acres</b>	65.7
		<b>Non-Spreadable Acres</b>	0.0
<b>Township</b>	T24N R1W	<b>Total Spreadable Acres</b>	65.7
<b>Section</b>	35		
<b>FSA Farm #</b>	4991	<b>Predominant Soil Type:</b>	86B Osco silt loam, 2-5 % slopes
<b>FSA Tract #</b>	2809	<b>P test</b>	104
<b>FSA Field #'s</b>	1	<b>K test</b>	328

**Individual Field Application & Nutrients**

<b>Crop needs</b>	<b>Year</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Crop		Silage	Beans	Silage	Beans	Silage	Beans
Yield	(bu/acre OR ton/acre)		55	20	55	20	55
N needed (lbs/ac)	lbs/ac		165	120	165	120	165
- Legume N credits	(lb/acre)		0	40	0	40	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		10.2	5.1	14.2	17.2	17.7
Total N Credits	(lb/acre)		10.2	45.1	14.2	57.2	17.7
Crop N Need Minus Credits	(lb/acre)		154.9	74.9	150.8	62.8	147.3
Maintenance P needed *	(lb/acre)		46.8	52.0	46.8	52.0	46.8
Maintenance K needed *	(lb/acre)		71.5	140.0	71.5	140.0	71.5

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

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

Car-Mer Dairy								
Oldenburg			2009	2010	2011	2012	2013	2014
Manure Application			Silage	Beans	Silage	Beans	Silage	Beans
Storage			Solid		Solid	Solid	Solid	Solid
Application Method			Incorporate		Incorporate	Incorporate	Incorporate	Incorporate
Storage/Application Method					LINE2	LINE2	LINE2	LINE2
1st Year Available N ( $Am-N * N$ retention due to app method) + (OrgN * .35)	(lb/1000 gal or lb/ton)				6.54	6.54	6.54	6.54
N App Rate (Crop N Need / 1st Yr Av N)	(lb/1000 gal or lb/ton)				11.5	23.1	9.6	22.5
P App Rate (Maintenance P / P in analysis)	(1000 gal/acre or ton/Acre)				10.12	9.10	10.12	9.10
Apply at Prate or Nrate?					Nrate	Nrate	Nrate	Nrate
<b>Application Rate to Use</b>	<b>(1000 gal or tons)</b>		<b>10.0</b>	<b>0.0</b>	<b>11.5</b>	<b>10.0</b>	<b>9.6</b>	<b>10.0</b>
Total application (App Rate * Spreadable Acres)	(gallons or tons)				753	657	631	657
N applied (1st Year AvN * App rate)	(lb/acre)				75	65	63	65
P applied (P in manure * App rate)	(lb/acre)				59	51	49	51
K applied (K in manure * App rate)	(lb/acre)				71	62	60	62
<b>Additional N Needed</b>	<b>(lb/acre)</b>			<b>155</b>	<b>0</b>	<b>85</b>	<b>0</b>	<b>82</b>
Acres Covered	(acres)			0.0	65.7	65.7	65.7	65.7

**Individual Field Information**

**Car-Mer Dairy**

<b>Field Name:</b>	<u>Oldenburg South</u>	<b>Total Acres</b>	23.8
		<b>Non-Spreadable Acres</b>	0.0
<b>Township</b>	T24N R1W	<b>Total Spreadable Acres</b>	23.8
<b>Section</b>	35		
<b>FSA Farm #</b>	4991	<b>Predominant Soil Type:</b>	280C2 Fayette silt loam, 5-10% slopes, eroded
<b>FSA Tract #</b>	3018	<b>P test</b>	92
<b>FSA Field #'s</b>	1-7	<b>K test</b>	236

**Individual Field Application & Nutrients**

<b>Crop needs</b>	<b>Year</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Crop		Alfalfa	Silage	Silage	Alfalfa	Alfalfa	Alfalfa
Yield	(bu/acre OR ton/acre)		20	20	10	10	10
N needed (lbs/ac)	lbs/ac		120	120	0	0	0
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	16.2	24.4	12.2	6.1
Total N Credits	(lb/acre)		0.0	16.2	24.4	12.2	6.1
Crop N Need Minus Credits	(lb/acre)		120.0	103.8	-24.4	-12.2	-6.1
Maintenance P needed *	(lb/acre)		52.0	52.0	120.0	120.0	120.0
Maintenance K needed *	(lb/acre)		140.0	140.0	500.0	500.0	500.0

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

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

<b>Car-Mer Dairy</b>							
<b>Oldenburg South</b>							
<b>Manure Application</b>		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Storage		Alfalfa	Silage	Silage	Alfalfa	Alfalfa	Alfalfa
Application Method			Incorporate	Incorporate			
Storage/Application Method			LINE2	LINE2			
1st Year Available N ( $Am-N * N$ retention due to app method) + (OrgN * .35)	(lb/1000 gal or lb/ton)		6.54	6.54			
N App Rate (Crop N Need / 1st Yr Av N)	(lb/1000 gal or lb/ton)		18.4	15.9			
P App Rate (Maintenance P / P in analysis)	(1000 gal/acre or ton/Acre)		10.12	10.12			
Apply at Prate or Nrate?			Nrate	Nrate			
<b>Application Rate to Use</b>	<b>(1000 gal or tons)</b>	<b>0.0</b>	<b>16.0</b>	<b>16.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Total application (App Rate * Spreadable Acres)	(gallons or tons)		381	381			
N applied (1st Year AvN * App rate)	(lb/acre)		105	105			
P applied (P in manure * App rate)	(lb/acre)		105	82			
K applied (K in manure * App rate)	(lb/acre)		82	100			
<b>Additional N Needed</b>	<b>(lb/acre)</b>		<b>15</b>	<b>-1</b>	<b>-24</b>	<b>-12</b>	<b>-6</b>
Acres Covered	(acres)		23.8	23.8	0.0	0.0	0.0

**Individual Field Information**

**Car-Mer Dairy**

<b>Field Name:</b>	<u>Dairy Farm A</u>	<b>Total Acres</b>	63.0
		<b>Non-Spreadable Acres</b>	0.0
<b>Township</b>	T24N R1W	<b>Total Spreadable Acres</b>	63.0
<b>Section</b>	26		
<b>FSA Farm #</b>	4991	<b>Predominant Soil Type:</b>	280C2 Fayette silt loam, 5-10% slopes, eroded
<b>FSA Tract #</b>	1297	<b>P test</b>	166
<b>FSA Field #'s</b>	1,2,5	<b>K test</b>	252

**Individual Field Application & Nutrients**

<b>Crop needs</b>	<b>Year</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Crop		Silage	Silage	Alfalfa	Alfalfa	Alfalfa	Silage
Yield	(bu/acre OR ton/acre)		20	10	10	10	20
N needed (lbs/ac)	lbs/ac		120	0	0	0	120
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		15.2	21.4	10.7	5.3	26.1
Total N Credits	(lb/acre)		15.2	21.4	10.7	5.3	26.1
Crop N Need Minus Credits	(lb/acre)		104.8	-21.4	-10.7	-5.3	93.9
Maintenance P needed *	(lb/acre)		52.0	120.0	120.0	120.0	52.0
Maintenance K needed *	(lb/acre)		140.0	500.0	500.0	500.0	140.0

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

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

<b>Car-Mer Dairy</b>								
<b>Dairy Farm A</b>			<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Manure Application</b>			Silage	Silage	Alfalfa	Alfalfa	Alfalfa	Silage
Storage			Liquid	Liquid			Liquid	Liquid
Application Method			Inject	Inject			Broadcast	Inject
Storage/Application Method				LINE1			LINE3	LINE1
1st Year Available N ( $Am-N * N$ retention due to app method) + (OrgN * .35)	(lb/1000 gal or lb/ton)			28.97			25.05	28.97
N App Rate (Crop N Need / 1st Yr Av N)	(lb/1000 gal or lb/ton)			3.6			-0.2	3.2
P App Rate (Maintenance P / P in analysis)	(1000 gal/acre or ton/Acre)			2.78			6.42	2.78
Apply at Prate or Nrate?				Nrate			Prate	Nrate
<b>Application Rate to Use</b>	<b>(1000 gal or tons)</b>		<b>4.0</b>	<b>3.6</b>	<b>0.0</b>	<b>0.0</b>	<b>6.4</b>	<b>3.2</b>
Total application (App Rate * Spreadable Acres)	(gallons or tons)			227,885			404,278	204,156
N applied (1st Year AvN * App rate)	(lb/acre)			105			161	94
P applied (P in manure * App rate)	(lb/acre)			105			120	61
K applied (K in manure * App rate)	(lb/acre)			68			141	71
<b>Additional N Needed</b>	<b>(lb/acre)</b>			<b>0</b>	<b>-21</b>	<b>-11</b>	<b>-166</b>	<b>0</b>
Acres Covered	(acres)			63.0	0.0	0.0	63.0	63.0

**Individual Field Information**

**Car-Mer Dairy**

<b>Field Name:</b>	<u>Dairy Farm B</u>	<b>Total Acres</b>	29.9
		<b>Non-Spreadable Acres</b>	0.0
<b>Township</b>	T24N R1W	<b>Total Spreadable Acres</b>	29.9
<b>Section</b>	26		
<b>FSA Farm #</b>	4991	<b>Predominant Soil Type:</b>	280C2 Fayette silt loam, 5-10% slopes, eroded
<b>FSA Tract #</b>	1297	<b>P test</b>	166
<b>FSA Field #'s</b>	1,2,5	<b>K test</b>	252

**Individual Field Application & Nutrients**

<b>Crop needs</b>	<b>Year</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Crop		Silage	Alfalfa	Alfalfa	Alfalfa	Silage	Silage
Yield	(bu/acre OR ton/acre)		10	10	10	20	20
N needed (lbs/ac)	lbs/ac		0	0	0	120	120
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		19.0	9.5	4.8	2.4	15.4
Total N Credits	(lb/acre)		19.0	9.5	4.8	2.4	15.4
Crop N Need Minus Credits	(lb/acre)		-19.0	-9.5	-4.8	117.6	104.6
Maintenance P needed *	(lb/acre)		120.0	120.0	120.0	52.0	52.0
Maintenance K needed *	(lb/acre)		500.0	500.0	500.0	140.0	140.0

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

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

<b>Car-Mer Dairy</b>							
<b>Dairy Farm B</b>		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Manure Application</b>		Silage	Alfalfa	Alfalfa	Alfalfa	Silage	Silage
Storage		Liquid				Liquid	Liquid
Application Method		Inject				Inject	Inject
Storage/Application Method						LINE1	LINE1
1st Year Available N ( <i>Am-N * N retention due to app method</i> ) + ( <i>OrgN * .35</i> )	(lb/1000 gal or lb/ton)					28.97	28.97
N App Rate ( <i>Crop N Need / 1st Yr Av N</i> )	(lb/1000 gal or lb/ton)					4.1	3.6
P App Rate ( <i>Maintenance P / P in analysis</i> )	(1000 gal/acre or ton/Acre)					2.78	2.78
Apply at Prate or Nrate?						Nrate	Nrate
<b>Application Rate to Use</b>	<b>(1000 gal or tons)</b>	<b>5.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>4.1</b>	<b>3.6</b>
Total application ( <i>App Rate * Spreadable Acres</i> )	(gallons or tons)					121,401	107,918
N applied ( <i>1st Year AvN * App rate</i> )	(lb/acre)					118	105
P applied ( <i>P in manure * App rate</i> )	(lb/acre)					76	67
K applied ( <i>K in manure * App rate</i> )	(lb/acre)					89	79
<b>Additional N Needed</b>	<b>(lb/acre)</b>		<b>-19</b>	<b>-10</b>	<b>-5</b>	<b>0</b>	<b>0</b>
Acres Covered	(acres)		0.0	0.0	0.0	29.9	29.9



**Individual Field Information**

**Car-Mer Dairy**

<b>Field Name:</b>	<u>Bradshaw A</u>	<b>Total Acres</b>	101.4
		<b>Non-Spreadable Acres</b>	0.0
<b>Township</b>	T24N R1W	<b>Total Spreadable Acres</b>	101.4
<b>Section</b>	26		
<b>FSA Farm #</b>	4991	<b>Predominant Soil Type:</b>	280B2 Fayette silt loam, 2-5% slopes, eroded
<b>FSA Tract #</b>	1296	<b>P test</b>	47
<b>FSA Field #'s</b>	1,8,2,10-44	<b>K test</b>	189

**Individual Field Application & Nutrients**

<b>Crop needs</b>	<b>Year</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Crop		Alfalfa	Alfalfa	Alfalfa	Corn	Corn	Alfalfa
Yield	(bu/acre OR ton/acre)		10	10	180	180	10
N needed (lbs/ac)	lbs/ac		0	0	216	216	0
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	0.0	24.4	37.4	42.1
Total N Credits	(lb/acre)		0.0	0.0	24.4	37.4	42.1
Crop N Need Minus Credits	(lb/acre)		0.0	0.0	191.6	178.6	-42.1
Maintenance P needed *	(lb/acre)		120.0	120.0	77.4	77.4	120.0
Maintenance K needed *	(lb/acre)		500.0	500.0	50.4	50.4	500.0

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

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

<b>Car-Mer Dairy</b>							
<b>Bradshaw A</b>		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Manure Application</b>		Alfalfa	Alfalfa	Alfalfa	Corn	Corn	Alfalfa
Storage				Liquid	Liquid	Liquid	Liquid
Application Method				Broadcast	Inject	Inject	Broadcast
Storage/Application Method				LINE3	LINE1	LINE1	LINE3
1st Year Available N ( <i>Am-N * N retention due to app method</i> ) + ( <i>OrgN * .35</i> )	(lb/1000 gal or lb/ton)			25.05	28.97	28.97	25.05
N App Rate ( <i>Crop N Need / 1st Yr Av N</i> )	(lb/1000 gal or lb/ton)			0.0	6.6	6.2	-1.7
P App Rate ( <i>Maintenance P / P in analysis</i> )	(1000 gal/acre or ton/Acre)			6.42	4.14	4.14	6.42
Apply at Prate or Nrate?				Prate	Nrate	Nrate	Prate
<b>Application Rate to Use</b>	<b>(1000 gal or tons)</b>	<b>0.0</b>	<b>0.0</b>	<b>6.4</b>	<b>6.6</b>	<b>6.2</b>	<b>6.4</b>
Total application ( <i>App Rate * Spreadable Acres</i> )	(gallons or tons)			650,695	670,635	625,310	650,695
N applied ( <i>1st Year AvN * App rate</i> )	(lb/acre)			161	192	179	161
P applied ( <i>P in manure * App rate</i> )	(lb/acre)			120	124	115	120
K applied ( <i>K in manure * App rate</i> )	(lb/acre)			141	146	136	141
<b>Additional N Needed</b>	<b>(lb/acre)</b>		<b>0</b>	<b>-161</b>	<b>0</b>	<b>0</b>	<b>-203</b>
Acres Covered	(acres)		0.0	101.4	101.4	101.4	101.4

**Individual Field Information**

**Car-Mer Dairy**

<b>Field Name:</b>	<u>Bradshaw B</u>	<b>Total Acres</b>	43.5
		<b>Non-Spreadable Acres</b>	0.0
<b>Township</b>	T24N R1W	<b>Total Spreadable Acres</b>	43.5
<b>Section</b>	26		
<b>FSA Farm #</b>	4991	<b>Predominant Soil Type:</b>	280B2 Fayette silt loam, 2-5% slopes, eroded
<b>FSA Tract #</b>	1296	<b>P test</b>	47.4
<b>FSA Field #'s</b>	1,8,2,10-44	<b>K test</b>	188.6

**Individual Field Application & Nutrients**

<b>Crop needs</b>	<b>Year</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Crop		Alfalfa	Alfalfa	Corn	Corn	Alfalfa	Alfalfa
Yield	(bu/acre OR ton/acre)		10	180	180	10	10
N needed (lbs/ac)	lbs/ac		0	216	216	0	0
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	0.0	28.4	38.8	43.8
Total N Credits	(lb/acre)		0.0	0.0	28.4	38.8	43.8
Crop N Need Minus Credits	(lb/acre)		0.0	216.0	187.6	-38.8	-43.8
Maintenance P needed *	(lb/acre)		120.0	77.4	77.4	120.0	120.0
Maintenance K needed *	(lb/acre)		500.0	50.4	50.4	500.0	500.0

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

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

<b>Car-Mer Dairy</b>							
<b>Bradshaw B</b>		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Manure Application</b>		Alfalfa	Alfalfa	Corn	Corn	Alfalfa	Alfalfa
Storage				Liquid	Liquid	Liquid	
Application Method				Inject	Inject	Broadcast	
Storage/Application Method				LINE1	LINE1	LINE3	
1st Year Available N ( <i>Am-N * N retention due to app method</i> ) + ( <i>OrgN * .35</i> )	(lb/1000 gal or lb/ton)			28.97	28.97	25.05	
N App Rate ( <i>Crop N Need / 1st Yr Av N</i> )	(lb/1000 gal or lb/ton)			7.5	6.5	-1.5	
P App Rate ( <i>Maintenance P / P in analysis</i> )	(1000 gal/acre or ton/Acre)			4.14	4.14	6.42	
Apply at Prate or Nrate?				Nrate	Nrate	Prate	
<b>Application Rate to Use</b>	<b>(1000 gal or tons)</b>	<b>0.0</b>	<b>0.0</b>	<b>7.5</b>	<b>6.5</b>	<b>6.4</b>	<b>0.0</b>
Total application ( <i>App Rate * Spreadable Acres</i> )	(gallons or tons)			324,341	281,766	279,144	
N applied ( <i>1st Year AvN * App rate</i> )	(lb/acre)			216	188	161	
P applied ( <i>P in manure * App rate</i> )	(lb/acre)			139	121	120	
K applied ( <i>K in manure * App rate</i> )	(lb/acre)			164	143	141	
<b>Additional N Needed</b>	<b>(lb/acre)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>-200</b>	<b>-44</b>
Acres Covered	(acres)		0.0	43.5	43.5	43.5	0.0

**Individual Field Information**

**Car-Mer Dairy**

<b>Field Name:</b>	<u>Liebfried</u>	<b>Total Acres</b>	35.3
		<b>Non-Spreadable Acres</b>	0.0
<b>Township</b>	T1N R1W	<b>Total Spreadable Acres</b>	35.3
<b>Section</b>	36		
<b>FSA Farm #</b>	4991	<b>Predominant Soil Type:</b>	280C2 Fayette silt loam, 5-10% slopes, eroded
<b>FSA Tract #</b>	4242	<b>P test</b>	55.6
<b>FSA Field #'s</b>	1-3	<b>K test</b>	188.6

**Individual Field Application & Nutrients**

<b>Crop needs</b>	<b>Year</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Crop		Corn	Beans	Corn	Beans	Corn	Beans
Yield	(bu/acre OR ton/acre)		55	180	55	180	55
N needed (lbs/ac)	lbs/ac		165	216	165	216	165
- Legume N credits	(lb/acre)		0	40	0	40	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		19.0	9.5	26.6	28.5	32.4
Total N Credits	(lb/acre)		19.0	49.5	26.6	68.5	32.4
Crop N Need Minus Credits	(lb/acre)		146.0	166.5	138.4	147.5	132.6
Maintenance P needed *	(lb/acre)		46.8	77.4	46.8	77.4	46.8
Maintenance K needed *	(lb/acre)		71.5	50.4	71.5	50.4	71.5

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

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

Car-Mer Dairy							
Liebfried		2009	2010	2011	2012	2013	2014
Manure Application		Corn	Beans	Corn	Beans	Corn	Beans
Storage		Liquid		Liquid	Solid	Liquid	Liquid
Application Method		Inject		Inject	Incorporate	Inject	Inject
Storage/Application Method		LINE1		LINE1	LINE2	LINE1	LINE1
1st Year Available N ( $Am-N * N$ retention due to app method) + (OrgN * .35)	(lb/1000 gal or lb/ton)			28.97	6.54	28.97	28.97
N App Rate (Crop N Need / 1st Yr Av N)	(lb/1000 gal or lb/ton)			5.7	21.2	5.1	4.6
P App Rate (Maintenance P / P in analysis)	(1000 gal/acre or ton/Acre)			4.14	9.10	4.14	2.50
Apply at Prate or Nrate?				Nrate	Nrate	Nrate	Nrate
<b>Application Rate to Use</b>	<b>(1000 gal or tons)</b>	<b>5.0</b>	<b>0.0</b>	<b>5.7</b>	<b>15.0</b>	<b>5.1</b>	<b>4.5</b>
Total application (App Rate * Spreadable Acres)	(gallons or tons)			202,876	530	179,696	158,850
N applied (1st Year AvN * App rate)	(lb/acre)			166	98	147	130
P applied (P in manure * App rate)	(lb/acre)			107	77	95	84
K applied (K in manure * App rate)	(lb/acre)			126	93	112	99
<b>Additional N Needed</b>	<b>(lb/acre)</b>		<b>146</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>2</b>
Acres Covered	(acres)		0.0	35.3	35.3	35.3	35.3

**Individual Field Information****Car-Mer Dairy**

<b>Field Name:</b>	<u>Joe Spangloli A</u>	<b>Total Acres</b>	71.3
		<b>Non-Spreadable Acres</b>	0.0
<b>Township</b>	T24N R1W	<b>Total Spreadable Acres</b>	71.3
<b>Section</b>	26 & 35		
<b>FSA Farm #</b>	4984	<b>Predominant Soil Type:</b>	279C2 Rozetta silt loam, 5-10% slopes, eroded
<b>FSA Tract #</b>	1292	<b>P test</b>	72
<b>FSA Field #'s</b>	1-23	<b>K test</b>	208

**Individual Field Application & Nutrients**

<b>Crop needs</b>	<b>Year</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Crop		Alfalfa	Alfalfa	Corn	Corn	Alfalfa	Alfalfa
Yield	(bu/acre OR ton/acre)		10	160	160	10	10
N needed (lbs/ac)	lbs/ac		0	192	192	0	0
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	0.0	25.2	34.5	41.7
Total N Credits	(lb/acre)		0.0	0.0	25.2	34.5	41.7
Crop N Need Minus Credits	(lb/acre)		0.0	192.0	166.8	-34.5	-41.7
Maintenance P needed *	(lb/acre)		120.0	68.8	68.8	120.0	120.0
Maintenance K needed *	(lb/acre)		500.0	44.8	44.8	500.0	500.0

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

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

<b>Car-Mer Dairy</b>							
<b>Joe Spangoli A</b>							
		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Manure Application</b>		Alfalfa	Alfalfa	Corn	Corn	Alfalfa	Alfalfa
Storage				Liquid	Liquid	Liquid	
Application Method				Inject	Inject	Broadcast	
Storage/Application Method				LINE1	LINE1	LINE3	
1st Year Available N ( $Am-N * N$ <i>retention due to app method</i> ) + ( $OrgN$ <i>* .35</i> )	(lb/1000 gal or lb/ton)			28.97	28.97	25.05	
N App Rate ( $Crop\ N\ Need / 1st\ Yr\ Av\ N$ )	(lb/1000 gal or lb/ton)			6.6	5.8	-1.4	
P App Rate ( $Maintenance\ P / P\ in\ analysis$ )	(1000 gal/acre or ton/Acre)			3.68	3.68	6.42	
Apply at Prate or Nrate?				Nrate	Nrate	Prate	
<b>Application Rate to Use</b>	<b>(1000 gal or tons)</b>	<b>0.0</b>	<b>0.0</b>	<b>6.6</b>	<b>5.8</b>	<b>6.4</b>	<b>0.0</b>
Total application ( $App\ Rate * Spreadable\ Acres$ )	(gallons or tons)			472,552	410,521	457,540	
N applied ( $1st\ Year\ AvN * App\ rate$ )	(lb/acre)			192	167	161	
P applied ( $P\ in\ manure * App\ rate$ )	(lb/acre)			124	108	120	
K applied ( $K\ in\ manure * App\ rate$ )	(lb/acre)			146	127	141	
<b>Additional N Needed</b>	<b>(lb/acre)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>-195</b>	<b>-42</b>
Acres Covered	(acres)		0.0	71.3	71.3	71.3	0.0



**Individual Field Information**

**Car-Mer Dairy**

<b>Field Name:</b>	<u>Joe Spangloli B</u>	<b>Total Acres</b>	71.3
		<b>Non-Spreadable Acres</b>	0.0
<b>Township</b>	T24N R1W	<b>Total Spreadable Acres</b>	71.3
<b>Section</b>	26 & 35		
<b>FSA Farm #</b>	4984	<b>Predominant Soil Type:</b>	279C2 Rozetta silt loam, 5-10% slopes, eroded
<b>FSA Tract #</b>	1292	<b>P test</b>	72
<b>FSA Field #'s</b>	1-23	<b>K test</b>	208

**Individual Field Application & Nutrients**

<b>Crop needs</b>	<b>Year</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Crop		Corn	Corn	Alfalfa	Alfalfa	Alfalfa	Corn
Yield	(bu/acre OR ton/acre)		160	10	10	10	160
N needed (lbs/ac)	lbs/ac		192	0	0	0	192
- Legume N credits	(lb/acre)		0	0	0	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		19.0	32.2	16.1	32.5	15.0
Total N Credits	(lb/acre)		19.0	32.2	16.1	32.5	15.0
Crop N Need Minus Credits	(lb/acre)		173.0	-32.2	-16.1	-32.5	177.0
Maintenance P needed *	(lb/acre)		68.8	120.0	120.0	120.0	68.8
Maintenance K needed *	(lb/acre)		44.8	500.0	500.0	500.0	44.8

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

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

<b>Car-Mer Dairy</b>							
<b>Joe Spangoli B</b>		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Manure Application</b>		Corn	Corn	Alfalfa	Alfalfa	Alfalfa	Corn
Storage		Liquid	Liquid		Liquid		Liquid
Application Method		Inject	Inject		Broadcast		Inject
Storage/Application Method		LINE1	LINE1		LINE3		LINE1
1st Year Available N ( $Am-N * N$ <i>retention due to app method</i> ) + ( $OrgN$ <i>* .35</i> )		(lb/1000 gal or lb/ton)	28.97		25.05		28.97
N App Rate ( $Crop\ N\ Need / 1st\ Yr\ Av\ N$ )		(lb/1000 gal or lb/ton)	6.0		-0.6		6.1
P App Rate ( $Maintenance\ P / P\ in\ analysis$ )		(1000 gal/acre or ton/Acre)	3.68		6.42		3.68
Apply at Prate or Nrate?			Nrate		Prate		Nrate
<b>Application Rate to Use</b>		<b>(1000 gal or tons)</b>	<b>5.0</b>	<b>6.0</b>	<b>0.0</b>	<b>6.4</b>	<b>0.0</b>
Total application ( $App\ Rate * Spreadable\ Acres$ )		(gallons or tons)		425,755		457,540	435,536
N applied ( $1st\ Year\ AvN * App\ rate$ )		(lb/acre)		173		161	177
P applied ( $P\ in\ manure * App\ rate$ )		(lb/acre)		173		120	114
K applied ( $K\ in\ manure * App\ rate$ )		(lb/acre)		112		141	134
<b>Additional N Needed</b>		<b>(lb/acre)</b>		<b>0</b>	<b>-32</b>	<b>-177</b>	<b>0</b>
Acres Covered		(acres)		71.3	0.0	71.3	71.3