

Multiple Year Application Field Summary

Field #	Field Name	Application Acres Available	2009				2010				2011			
			Acres	Lagoon Gallons	Barns 1-8 Tons	Barns 9-13 Tons	Acres	Lagoon Gallons	Barns 1-8 Tons	Barns 9-13 Tons	Acres	Lagoon Gallons	Barns 1-8 Tons	Barns 9-13 Tons
1	Ames South 52	49.04	49.04	1,520,620			49.04	1,178,194	2,126		49.04	1,501,612		
2	Baker East	37.07	37.07		1,700		37.07						1,002	
3	Road Bottom	19.58	19.58		816		19.58			468			466	
4	Faust Road	74.84	74.84		2,287		74.84		3,036				1,580	
5	John Liefer	31.72	31.72		1,421		31.72		732					824
7	Menard 24	20.75	20.75		908		20.75		479				752	
8	Nicholson 12	8.64	8.64	267,907			8.64			220		288,000		
9	Parler East & West	110.31	110.31		3,372		110.31		4,360				2,210	
11	Rogers 44	35.43	35.43		1,550		35.43		290	403			1,314	
12	Ruez Bottom	52.64	52.64		742	1,007	52.64		1,828			154,357		
13	Wood Bridge	10.47	10.47	158,140		84	10.47		421				233	
14	Ruez Park South 30	23.38	23.38		1,072		23.38	768,142	50				909	
16	Sievers 13	13.78	13.78		617		13.78		318				130	267
17	Tower 16	9.44	9.44		433		9.44		271				495	
19	V V & McBride	75.75	75.75		3,394		75.75		1,747				2,884	
Total Applied			572.84	1,946,667	18,312	1,091	572.84	1,946,336	15,658	1,091	49.04	1,943,969	11,975	1,091
Total Manure Produced				1,946,236	18,596	1,091		1,946,236	18,596	1,091		1,946,236	18,596	1,091
Over (under) application				431	(284)	(0)		100	(2,938)	(0)		(2,267)	(6,621)	(0)

Waste Application Worksheet

Westridge Dairy

Operation ID: 55078

Field # 1

Field Name Ames South 52

Field Acres 49.59

Application Acres 49.04

Crop Year 2009

Crop Corn Silage

Yield Goal 25

Planned Application Acres 49.04

Crop Removal per bushel
Crop Removal(needs) /acre

Nitrogen

Phosphorus

Potassium

N

P₂O₅

K₂O

6.00
150

2.65
66

7.00
175

LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer

Legume

30

0

0

LMFA 900.803 m) (7)

40

Soybeans

LMFA 900.803 m) (7)

Previous Crop

Manure Applications 2006

0

Mineralization Rate = 12.5 %

LMFA 900.803 m) (7)

2007

0

Mineralization Rate = 25 %

LMFA 900.803 m) (7)

2008

0

Mineralization Rate = 50 %

LMFA 900.803 m) (7)

Total Nitrogen Credits

70

LMFA 900.803 m) (7)

Nitrogen

Phosphorus

Potassium

80

66

175

LMFA 900.803 m) (6)

Crop Needs after Credits

Sample Results From:

Manure Source: Lagoon

4.0

3.0

4.0

Plant Ammonia Nitrogen / 1000 gallons

2.0

Manure Application Method

Injected

Ammonia Loss During Application

1 %

Source: MWPS 18 Table 10-2

LMFA 900.803 m) (4)

Mineralization Rate - Application Year

0.30

Source: MWPS 18 Table 10-5

Plant Available Nitrogen / 1000 gallons

2.58

Application Rate Based on

Gallons/Acre

Nitrogen

31,007.8

LMFA 900.803 m) (8)

Phosphorus

22,083.3

LMFA 900.803 m) (1)

Current Bray P1 Soil Test lbs/Acre

114

At Nitrogen Rate P1 Buildup Equals

3.0

of Apps at N rate to reach 300 P1

63

Target Application Rate Per Acre

31,007.8

Gallons

Nitrogen Rate

Target Application Rate Entire Field

1,520,620

Gallons

Nitrogen

Phosphorus

Potassium

80

93

124

Available Manure Nutrients Applied

150

93

124

Available Nutrients from all sources

0

27

-51

Over (Under) application of nutrients

Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year

Nitrogen Credit/Acre

Crop Year

Mineralization Rate

Second Year Following Application

9

2010

50% of 0.60 /1000 gal

Third Year Following Application

5

2011

25% of 0.60 /1000 gal

Fourth Year Following Application

2

2012

12.5% of 0.60 /1000 gal

Waste Application Worksheet

Westridge Dairy

Operation ID: 55078

Field # 2 Field Name Baker East Field Acres 42.84 Application Acres 37.07
 Crop Year 2009 Crop Soybeans Yield Goal 44 Planned Application Acres 37.07

Nitrogen Phosphorus Potassium

N P₂O₅ K₂O

Crop Removal per bushel
 Crop Removal(needs) /acre

3.75	0.85	1.30
165	37	57

LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer

0	0	0
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LMFA 900.803 m) (7)

Legume

0

LMFA 900.803 m) (7)

Manure Applications 2006
 2007
 2008

0
0
0

Mineralization Rate = 12.5 %

LMFA 900.803 m) (7)

Mineralization Rate = 25 %

LMFA 900.803 m) (7)

Mineralization Rate = 50 %

LMFA 900.803 m) (7)

Total Nitrogen Credits

0

LMFA 900.803 m) (7)

Nitrogen Phosphorus Potassium

Crop Needs after Credits

165	37	57
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LMFA 900.803 m) (6)

If Book: Source MWPS 18

Sample Results From:

Manure Source: Solid w/sand Bedding

7.3	2.5	4.9
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Plant Ammonia Nitrogen / ton

2.5

Manure Application Method

Broadcast Solid, incorporated within 12 hours

Ammonia Loss During Application

3 %

Source: MWPS 18 Table 10-2

LMFA 900.803 m) (4)

Mineralization Rate - Application Year

0.25

Source: MWPS 18 Table 10-5

Plant Available Nitrogen / ton

3.60

Application Rate Based on

Tons/Acre

Nitrogen

45.8

LMFA 900.803 m) (8)

Phosphorus

15.3

LMFA 900.803 m) (1)

Current Bray P1 Soil Test lbs/Acre

81.0

At Nitrogen Rate P1 Buildup Equals

8.3

of Apps at N rate to reach 300-P1

26.3

Target Application Rate Per Acre

45.8

Tons

Nitrogen Rate

Target Application Rate Entire Field

1,700

Tons

Nitrogen Phosphorus Potassium

Available Manure Nutrients Applied

165

112

225

Available Nutrients from all sources

165

112

225

Over (Under) application of nutrients

0

75

167

Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	28	2010	50% of 1.22 / ton
Third Year Following Application	14	2011	25% of 1.22 / ton
Fourth Year Following Application	7	2012	12.5% of 1.22 / ton

Waste Application Worksheet

Westridge Dairy

Operation ID: 55078

Field # 3 Field Name Road Bottom Field Acres 19.58 Application Acres 19.58
Crop Year 2009 Crop Corn Silage Yield Goal 25 Planned Application Acres 19.58

	Nitrogen	Phosphorus	Potassium	
	N	P ₂ O ₅	K ₂ O	
Crop Removal per bushel	6.00	2.65	7.00	
Crop Removal(needs) /acre	150	66	175	LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer

Legume

Manure Applications 2006
2007
2008

Total Nitrogen Credits

0	0	0	LMFA 900.803 m) (7)
0	Corn Grain		LMFA 900.803 m) (7)
	Previous Crop		
0	Mineralization Rate = 12.5 %		LMFA 900.803 m) (7)
0	Mineralization Rate = 25 %		LMFA 900.803 m) (7)
0	Mineralization Rate = 50 %		LMFA 900.803 m) (7)
0			LMFA 900.803 m) (7)

Crop Needs after Credits

Sample Results From:

Manure Source: Solid w/sand Bedding

Plant Ammonia Nitrogen / ton

Manure Application Method

Ammonia Loss During Application

Mineralization Rate - Application Year

Plant Available Nitrogen / ton

Nitrogen	Phosphorus	Potassium	
150	66	175	LMFA 900.803 m) (6)
If Book: Source MWPS 18			
7.3	2.5	4.9	
2.5			

Broadcast Solid, incorporated within 12 hours

3 %	Source: MWPS 18 Table 10-2	LMFA 900.803 m) (4)
0.25	Source: MWPS 18 Table 10-5	
3.60		

Application Rate Based on

Tons/Acre

Nitrogen

Phosphorus

Current Bray P1 Soil Test lbs/Acre

At Nitrogen Rate P1 Buildup Equals

of Apps at N rate to reach 300 P1

41.7	
27.0	
0	
4.0	
75	

LMFA 900.803 m) (8)

LMFA 900.803 l)

Target Application Rate Per Acre

41.7

Tons

Nitrogen Rate

Target Application Rate Entire Field

816

Tons

	Nitrogen	Phosphorus	Potassium
Available Manure Nutrients Applied	150	102	204
Available Nutrients from all sources	150	102	204
Over (Under) application of nutrients	0	36	29

Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	25	2010	50% of 1.22 / ton
Third Year Following Application	13	2011	25% of 1.22 / ton
Fourth Year Following Application	6	2012	12.5% of 1.22 / ton

Waste Application Worksheet

Westridge Dairy

Operation ID: 55078

Field # 4

Field Name Faust Road

Field Acres 74.84

Application Acres 74.84

Crop Year 2009

Crop Corn Silage

Yield Goal 25

Planned Application Acres 74.84

Crop Removal per bushel
Crop Removal(needs) /acre

Nitrogen

Phosphorus

Potassium

N

P₂O₅

K₂O

6.00
150

2.65
66

7.00
175

LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer

Legume

0

0

0

LMFA 900.803 m) (7)

Soybeans

LMFA 900.803 m) (7)

Previous Crop

Manure Applications 2006
2007
2008

0
0
0

Mineralization Rate = 12.5 %

LMFA 900.803 m) (7)

Mineralization Rate = 25 %

LMFA 900.803 m) (7)

Mineralization Rate = 50 %

LMFA 900.803 m) (7)

Total Nitrogen Credits

40

LMFA 900.803 m) (7)

Nitrogen

Phosphorus

Potassium

110

66

175

LMFA 900.803 m) (6)

Crop Needs after Credits

Sample Results From:

Manure Source: Solid w/sand Bedding

7.3

2.5

4.9

Plant Ammonia Nitrogen / ton

2.5

Manure Application Method

Broadcast Solid, incorporated within 12 hours

Ammonia Loss During Application

3 %

Source: MWPS 18 Table 10-2

LMFA 900.803 m) (4)

Mineralization Rate - Application Year

0.25

Source: MWPS 18 Table 10-5

Plant Available Nitrogen / ton

3.60

Application Rate Based on

Tons/Acre

Nitrogen

30.6

LMFA 900.803 m) (8)

Phosphorus

27.0

LMFA 900.803 m) (9)

Current Bray P1 Soil Test lbs/Acre

98

At Nitrogen Rate P1 Buildup Equals

1.0

of Apps at N rate to reach 300 P1

211

Target Application Rate Per Acre

30.6

Tons

Nitrogen Rate

Target Application Rate Entire Field

2,287

Tons

Nitrogen

Phosphorus

Potassium

Available Manure Nutrients Applied

110

75

150

Available Nutrients from all sources

150

75

150

Over (Under) application of nutrients

0

9

-25

Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year

Nitrogen Credit/Acre

Crop Year

Mineralization Rate

Second Year Following Application

19

2010

50% of 1.22 / ton

Third Year Following Application

9

2011

25% of 1.22 / ton

Fourth Year Following Application

5

2012

12.5% of 1.22 / ton

Waste Application Worksheet

Westridge Dairy

Operation ID:

Field #

Field Name

Field Acres

Application Acres

Crop Year

Crop

Yield Goal

Planned Application Acres

	Nitrogen	Phosphorus	Potassium	
	N	P ₂ O ₅	K ₂ O	
Crop Removal per bushel	<input type="text" value="3.75"/>	<input type="text" value="0.85"/>	<input type="text" value="1.30"/>	
Crop Removal(needs) /acre	<input type="text" value="161"/>	<input type="text" value="37"/>	<input type="text" value="56"/>	LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer

Legume

Manure Applications 2006

2007

2008

Total Nitrogen Credits

<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	LMFA 900.803 m) (7)
<input type="text" value="0"/>			LMFA 900.803 m) (7)
<input type="text" value="0"/>	Mineralization Rate = 12.5 %		LMFA 900.803 m) (7)
<input type="text" value="0"/>	Mineralization Rate = 25 %		LMFA 900.803 m) (7)
<input type="text" value="0"/>	Mineralization Rate = 50 %		LMFA 900.803 m) (7)
<input type="text" value="0"/>			LMFA 900.803 m) (7)

Crop Needs after Credits

Sample Results From:

Manure Source: Solid w/sand Bedding

Plant Ammonia Nitrogen / ton

Manure Application Method

Ammonia Loss During Application

Mineralization Rate - Application Year

Plant Available Nitrogen / ton

Nitrogen	Phosphorus	Potassium	
<input type="text" value="161"/>	<input type="text" value="37"/>	<input type="text" value="56"/>	LMFA 900.803 m) (6)

If Book: Source MWPS 18

<input type="text" value="7.3"/>	<input type="text" value="2.5"/>	<input type="text" value="4.9"/>
<input type="text" value="2.5"/>		

Broadcast Solid, incorporated within 12 hours

Source: MWPS 18 Table 10-2 LMFA 900.803 m) (4)

Source: MWPS 18 Table 10-5

Application Rate Based on

Tons/Acre

Nitrogen

Phosphorus

Current Bray P1 Soil Test lbs/Acre

At Nitrogen Rate P1 Buildup Equals

of Apps at N rate to reach 300-P1

<input type="text" value="44.8"/>
<input type="text" value="14.9"/>
<input type="text" value="148.0"/>
<input type="text" value="8.1"/>
<input type="text" value="18.7"/>

LMFA 900.803 m) (8)

LMFA 900.803 l)

Target Application Rate Per Acre

Tons

Nitrogen Rate

Target Application Rate Entire Field

Tons

Nitrogen	Phosphorus	Potassium
<input type="text" value="161"/>	<input type="text" value="110"/>	<input type="text" value="220"/>
<input type="text" value="161"/>	<input type="text" value="110"/>	<input type="text" value="220"/>
<input type="text" value="0"/>	<input type="text" value="73"/>	<input type="text" value="164"/>

Available Manure Nutrients Applied

Available Nutrients from all sources

Over (Under) application of nutrients

Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	<input type="text" value="27"/>	2010	50% of 1.22 / ton
Third Year Following Application	<input type="text" value="14"/>	2011	25% of 1.22 / ton
Fourth Year Following Application	<input type="text" value="7"/>	2012	12.5% of 1.22 / ton

Waste Application Worksheet

Westridge Dairy

Operation ID:

Field # Field Name Field Acres Application Acres

Crop Year Crop Yield Goal Planned Application Acres

Nitrogen	Phosphorus	Potassium
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N P₂O₅ K₂O

Crop Removal per bushel
Crop Removal(needs) /acre

3.75	0.85	1.30
158	36	55

LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer

0	0	0
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LMFA 900.803 m) (7)

Legume

0	Corn Silage	
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LMFA 900.803 m) (7)

Previous Crop

Manure Applications 2006

0	Mineralization Rate = 12.5 %	
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LMFA 900.803 m) (7)

2007

0	Mineralization Rate = 25 %	
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LMFA 900.803 m) (7)

2008

0	Mineralization Rate = 50 %	
---	----------------------------	--

LMFA 900.803 m) (7)

Total Nitrogen Credits

0		
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LMFA 900.803 m) (7)

Nitrogen	Phosphorus	Potassium
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Crop Needs after Credits

158	36	55
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LMFA 900.803 m) (6)

Sample Results From:

If Book: Source MWPS 18

Manure Source: Solid w/sand Bedding

7.3	2.5	4.9
-----	-----	-----

Plant Ammonia Nitrogen / ton

2.5		
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Manure Application Method

Broadcast Solid, incorporated within 12 hours

Ammonia Loss During Application

% Source: MWPS 18 Table 10-2

LMFA 900.803 m) (4)

Mineralization Rate - Application Year

 Source: MWPS 18 Table 10-5

Plant Available Nitrogen / ton

3.60		
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Application Rate Based on

Tons/Acre

Nitrogen

43.8

LMFA 900.803 m) (8)

Phosphorus

14.6

LMFA 900.803 l)

Current Bray P1 Soil Test lbs/Acre

0

At Nitrogen Rate P1 Buildup Equals

7.9

of Apps at N rate to reach 300 P1

38

Target Application Rate Per Acre

43.8

Tons

Nitrogen Rate

Target Application Rate Entire Field

908

Tons

Nitrogen	Phosphorus	Potassium
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Available Manure Nutrients Applied

158	107	214
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Available Nutrients from all sources

158	107	214
-----	-----	-----

Over (Under) application of nutrients

0	72	160
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Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
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Second Year Following Application

27

2010 50% of 1.22 / ton

Third Year Following Application

13

2011 25% of 1.22 / ton

Fourth Year Following Application

7

2012 12.5% of 1.22 / ton

Waste Application Worksheet

Westridge Dairy

Operation ID:

Field #

Field Name

Field Acres

Application Acres

Crop Year

Crop

Yield Goal

Planned Application Acres

	Nitrogen	Phosphorus	Potassium	
	N	P ₂ O ₅	K ₂ O	
Crop Removal per bushel	<input type="text" value="6.00"/>	<input type="text" value="2.65"/>	<input type="text" value="7.00"/>	
Crop Removal(needs) /acre	<input type="text" value="150"/>	<input type="text" value="66"/>	<input type="text" value="175"/>	LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer

Legume

Manure Applications 2006

2007

2008

Total Nitrogen Credits

<input type="text" value="30"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	LMFA 900.803 m) (7)
<input type="text" value="40"/>	<input type="text" value="Soybeans"/>		LMFA 900.803 m) (7)
	Previous Crop		
<input type="text" value="0"/>	Mineralization Rate = 12.5 %		LMFA 900.803 m) (7)
<input type="text" value="0"/>	Mineralization Rate = 25 %		LMFA 900.803 m) (7)
<input type="text" value="0"/>	Mineralization Rate = 50 %		LMFA 900.803 m) (7)
<input type="text" value="70"/>			LMFA 900.803 m) (7)

Crop Needs after Credits

Sample Results From:

Manure Source: Lagoon

Plant Ammonia Nitrogen / 1000 gallons

Manure Application Method

Ammonia Loss During Application

Mineralization Rate - Application Year

Plant Available Nitrogen / 1000 gallons

Nitrogen	Phosphorus	Potassium	
<input type="text" value="80"/>	<input type="text" value="66"/>	<input type="text" value="175"/>	LMFA 900.803 m) (6)
If Book: Source MWPS 18			
<input type="text" value="4.0"/>	<input type="text" value="3.0"/>	<input type="text" value="4.0"/>	
<input type="text" value="2.0"/>			

% Source: MWPS 18 Table 10-2 LMFA 900.803 m) (4)

Source: MWPS 18 Table 10-5

Application Rate Based on

Gallons/Acre

Nitrogen

Phosphorus

Current Bray P1 Soil Test lbs/Acre

At Nitrogen Rate P1 Buildup Equals

of Apps at N rate to reach 300 P1

<input type="text" value="31,007.8"/>	
<input type="text" value="22,083.3"/>	
<input type="text" value="51"/>	
<input type="text" value="3.0"/>	
<input type="text" value="84"/>	

LMFA 900.803 m) (8)

LMFA 900.803 m) (1)

Target Application Rate Per Acre

Gallons Nitrogen Rate

Target Application Rate Entire Field

Gallons

Available Manure Nutrients Applied
Available Nutrients from all sources
Over (Under) application of nutrients

Nitrogen	Phosphorus	Potassium
<input type="text" value="80"/>	<input type="text" value="93"/>	<input type="text" value="124"/>
<input type="text" value="150"/>	<input type="text" value="93"/>	<input type="text" value="124"/>
<input type="text" value="0"/>	<input type="text" value="27"/>	<input type="text" value="-51"/>

Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	<input type="text" value="9"/>	2010	50% of 0.60 /1000 gal
Third Year Following Application	<input type="text" value="5"/>	2011	25% of 0.60 /1000 gal
Fourth Year Following Application	<input type="text" value="2"/>	2012	12.5% of 0.60 /1000 gal

Waste Application Worksheet

Westridge Dairy

Operation ID: 55078

Field # 9

Field Name Parler East & West

Field Acres 110.31

Application Acres 110.31

Crop Year 2009

Crop Corn Silage

Yield Goal 25

Planned Application Acres 110.31

Crop Removal per bushel
Crop Removal(needs) /acre

Nitrogen	Phosphorus	Potassium
N	P ₂ O ₅	K ₂ O
6.00	2.65	7.00
150	66	175

LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer

Legume

Manure Applications 2006
2007
2008

Total Nitrogen Credits

0	0	0
40	Soybeans	
	Previous Crop	
0	Mineralization Rate = 12.5 %	
0	Mineralization Rate = 25 %	
0	Mineralization Rate = 50 %	
40		

LMFA 900.803 m) (7)

LMFA 900.803 m) (7)

LMFA 900.803 m) (7)

LMFA 900.803 m) (7)

LMFA 900.803 m) (7)

LMFA 900.803 m) (7)

Crop Needs after Credits

Sample Results From:

Manure Source: Solid w/sand Bedding

Plant Ammonia Nitrogen / ton

Manure Application Method

Ammonia Loss During Application

Mineralization Rate - Application Year

Plant Available Nitrogen / ton

Nitrogen	Phosphorus	Potassium
110	66	175

LMFA 900.803 m) (6)

If Book: Source MWPS 18

7.3	2.5	4.9
2.5		

Broadcast Solid, incorporated within 12 hours

Source: MWPS 18 Table 10-2

LMFA 900.803 m) (4)

Source: MWPS 18 Table 10-5

3.60

Application Rate Based on

Tons/Acre

Nitrogen

Phosphorus

Current Bray P1 Soil Test lbs/Acre

At Nitrogen Rate P1 Buildup Equals

of Apps at N rate to reach 300 P1

30.6
27.0
226
1.0
77

LMFA 900.803 m) (6)

LMFA 900.803 m) (1)

Target Application Rate Per Acre

30.6

Tons

Nitrogen Rate

Target Application Rate Entire Field

3,372

Tons

Nitrogen	Phosphorus	Potassium
110	75	150
150	75	150
0	9	-25

Available Manure Nutrients Applied
Available Nutrients from all sources
Over (Under) application of nutrients

Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	19	2010	50% of 1.22 / ton
Third Year Following Application	9	2011	25% of 1.22 / ton
Fourth Year Following Application	5	2012	12.5% of 1.22 / ton

Waste Application Worksheet

Westridge Dairy

Operation ID: 55078

Field # 11 Field Name Rogers 44 Field Acres 35.43 Application Acres 35.43
Crop Year 2009 Crop Soybeans Yield Goal 42 Planned Application Acres 35.43

	Nitrogen	Phosphorus	Potassium	
	N	P ₂ O ₅	K ₂ O	
Crop Removal per bushel	3.75	0.85	1.30	
Crop Removal(needs) /acre	158	36	55	LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer	0	0	0	LMFA 900.803 m) (7)
Legume	0	Corn Grain		LMFA 900.803 m) (7)
		Previous Crop		
Manure Applications 2006	0	Mineralization Rate = 12.5 %		LMFA 900.803 m) (7)
2007	0	Mineralization Rate = 25 %		LMFA 900.803 m) (7)
2008	0	Mineralization Rate = 50 %		LMFA 900.803 m) (7)
Total Nitrogen Credits	0			LMFA 900.803 m) (7)

Crop Needs after Credits

Sample Results From:

Manure Source: Solid w/sand Bedding

Plant Ammonia Nitrogen / ton

Manure Application Method

Ammonia Loss During Application

Mineralization Rate - Application Year

Plant Available Nitrogen / ton

Application Rate Based on

Tons/Acre

Nitrogen	43.8
Phosphorus	14.6
Current Bray P1 Soil Test lbs/Acre	0
At Nitrogen Rate P1 Buildup Equals	7.9
# of Apps at N rate to reach 300 P1	38

LMFA 900.803 m) (8)

LMFA 900.803 m) (9)

Target Application Rate Per Acre 43.8

Tons

Nitrogen Rate

Target Application Rate Entire Field 1,550

Tons

	Nitrogen	Phosphorus	Potassium
Available Manure Nutrients Applied	158	107	214
Available Nutrients from all sources	158	107	214
Over (Under) application of nutrients	0	72	160

Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	27	2010	50% of 1.22 / ton
Third Year Following Application	13	2011	25% of 1.22 / ton
Fourth Year Following Application	7	2012	12.5% of 1.22 / ton

Waste Application Worksheet

Westridge Dairy

Operation ID: 55078

Field # 11

Field Name Rogers 44

Field Acres 35.43

Application Acres 35.43

Crop Year 2010

Crop Corn Grain

Yield Goal 129

Planned Application Acres 11.87

Nitrogen

Phosphorus

Potassium

N

P₂O₅

K₂O

Crop Removal per bushel
Crop Removal(needs) /acre

1.20
155

0.43
55

0.28
36

LMFA 900.803 m) (6)

Nitrogen Credits

Commercial Fertilizer

Legume

0
40

0
Soybeans

Previous Crop

LMFA 900.803 m) (7)

LMFA 900.803 m) (7)

Manure Applications 2007
2008
2009

0
0
27

Mineralization Rate = 12.5 %
Mineralization Rate = 25 %
Mineralization Rate = 50 %

LMFA 900.803 m) (7)

LMFA 900.803 m) (7)

LMFA 900.803 m) (7)

Total Nitrogen Credits

67

LMFA 900.803 m) (7)

Nitrogen

Phosphorus

Potassium

If Book: Source MWPS 18

88

55

36

LMFA 900.803 m) (6)

Sample Results From:

Manure Source: Solid w/sand Bedding

7.3

2.5

4.9

Plant Ammonia Nitrogen / ton

2.5

Manure Application Method

Broadcast Solid, incorporated within 12 hours

Ammonia Loss During Application

3 %

Source: MWPS 18 Table 10-2

LMFA 900.803 m) (4)

Mineralization Rate - Application Year

0.25

Source: MWPS 18 Table 10-5

Plant Available Nitrogen / ton

3.60

Application Rate Based on

Tons/Acre

Nitrogen

24.4

Phosphorus

22.6

Current Bray P1 Soil Test lbs/Acre

0

At Nitrogen Rate P1 Buildup Equals

0.5

of Apps at N rate to reach 300 P1

628

Target Application Rate Per Acre

24.4

Tons

Nitrogen Rate

Target Application Rate Entire Field

290

Tons

Nitrogen

Phosphorus

Potassium

Available Manure Nutrients Applied

88

60

120

Available Nutrients from all sources

155

60

120

Over (Under) application of nutrients

0

4

83

Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	15	2011	50% of 1.22 / ton
Third Year Following Application	7	2012	25% of 1.22 / ton
Fourth Year Following Application	4	2013	12.5% of 1.22 / ton