

# 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 <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> 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="165"/>	<input type="text" value="37"/>	<input type="text" value="57"/>	LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer

Legume

Manure Applications 2007

2008

2009

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="9"/>	Mineralization Rate = 50 %		LMFA 900.803 m) (7)
<input type="text" value="9"/>			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="156"/>	<input type="text" value="37"/>	<input type="text" value="57"/>	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

<input type="text" value="3 %"/>	Source: MWPS 18 Table 10-2	LMFA 900.803 m) (4)
<input type="text" value="0.25"/>	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

Target Application Rate Per Acre

Target Application Rate Entire Field

<input type="text" value="43.3"/>
<input type="text" value="15.3"/>
<input type="text" value="114.0"/>
<input type="text" value="7.6"/>
<input type="text" value="24.3"/>

Tons

Nitrogen Rate

Tons

LMFA 900.803 m) (8)  
LMFA 900.803 l)

Nitrogen	Phosphorus	Potassium
<input type="text" value="156"/>	<input type="text" value="106"/>	<input type="text" value="212"/>
<input type="text" value="165"/>	<input type="text" value="106"/>	<input type="text" value="212"/>
<input type="text" value="0"/>	<input type="text" value="69"/>	<input type="text" value="155"/>

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="26"/>	2011	50% of 1.22 / ton
Third Year Following Application	<input type="text" value="13"/>	2012	25% of 1.22 / ton
Fourth Year Following Application	<input type="text" value="7"/>	2013	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 <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> 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	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	LMFA 900.803 m) (7)
Legume	<input type="text" value="40"/>	<input type="text" value="Soybeans"/>		LMFA 900.803 m) (7)
		Previous Crop		
Manure Applications 2007	<input type="text" value="0"/>	Mineralization Rate = 12.5 %		LMFA 900.803 m) (7)
2008	<input type="text" value="0"/>	Mineralization Rate = 25 %		LMFA 900.803 m) (7)
2009	<input type="text" value="28"/>	Mineralization Rate = 50 %		LMFA 900.803 m) (7)
Total Nitrogen Credits	<input type="text" value="68"/>			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

### Application Rate Based on

Nitrogen	<input type="text" value="31,782.9"/>
Phosphorus	<input type="text" value="22,083.3"/>
Current Bray P1 Soil Test lbs/Acre	<input type="text" value="81"/>
At Nitrogen Rate P1 Buildup Equals	<input type="text" value="3.2"/>
# of Apps at N rate to reach 300 P1	<input type="text" value="68"/>

Target Application Rate Per Acre

Target Application Rate Entire Field

Gallons Nitrogen Rate

Gallons

### Nitrogen Phosphorus Potassium

Available Manure Nutrients Applied	<input type="text" value="82"/>	<input type="text" value="95"/>	<input type="text" value="127"/>
Available Nutrients from all sources	<input type="text" value="150"/>	<input type="text" value="95"/>	<input type="text" value="127"/>
Over (Under) application of nutrients	<input type="text" value="0"/>	<input type="text" value="29"/>	<input type="text" value="-48"/>

### 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="10"/>	2011	50% of 0.60 /1000 gal
Third Year Following Application	<input type="text" value="5"/>	2012	25% of 0.60 /1000 gal
Fourth Year Following Application	<input type="text" value="2"/>	2013	12.5% of 0.60 /1000 gal

# Waste Application Worksheet

## Westridge Dairy

Operation ID: 55078

Field # 3

Field Name Road Bottom

Field Acres 19.58

Application Acres 19.58

Crop Year 2010

Crop Corn Grain

Yield Goal 123

Planned Application Acres 19.58

### Nitrogen

### Phosphorus

### Potassium

N

P<sub>2</sub>O<sub>5</sub>

K<sub>2</sub>O

Crop Removal per bushel  
Crop Removal(needs) /acre

1.20

0.43

0.28

148

53

34

LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer

0

0

0

LMFA 900.803 m) (7)

Legume

0

Corn Silage

LMFA 900.803 m) (7)

Previous Crop

Manure Applications 2007

0

Mineralization Rate = 12.5 %

LMFA 900.803 m) (7)

2008

0

Mineralization Rate = 25 %

LMFA 900.803 m) (7)

2009

25

Mineralization Rate = 50 %

LMFA 900.803 m) (7)

Total Nitrogen Credits

25

LMFA 900.803 m) (7)

### Nitrogen

### Phosphorus

### Potassium

123

53

34

LMFA 900.803 m) (6)

If Book: Source MWPS 18

9.0

3.0

6.0

Sample Results From:

Manure Source: Solid w/Bedding

Plant Ammonia Nitrogen / ton

4.0

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

5.13

### Application Rate Based on

### Tons/Acre

Nitrogen

23.9

LMFA 900.803 m) (8)

Phosphorus

17.6

Current Bray P1 Soil Test lbs/Acre

0

LMFA 900.803 l)

At Nitrogen Rate P1 Buildup Equals

2.1

# of Apps at N rate to reach 300 P1

144

Target Application Rate Per Acre

23.9

Tons

Nitrogen Rate

Target Application Rate Entire Field

468

Tons

### Nitrogen

### Phosphorus

### Potassium

123

72

143

Available Manure Nutrients Applied

148

72

143

Available Nutrients from all sources

0

19

109

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	15	2011	50% of 1.25 / ton
Third Year Following Application	7	2012	25% of 1.25 / ton
Fourth Year Following Application	4	2013	12.5% of 1.25 / 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 2010 Crop Soybeans Yield Goal 44 Planned Application Acres 74.84

### Nitrogen Phosphorus Potassium

N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
3.75	0.85	1.30
165	37	57

Crop Removal per bushel  
Crop Removal(needs) /acre

LMFA 900.803 m) (5)

### 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 2007  
2008  
2009

0
0
19

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

19
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LMFA 900.803 m) (7)

### Nitrogen Phosphorus Potassium

146	37	57
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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
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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
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### Application Rate Based on

Tons/Acre

LMFA 900.803 m) (8)

Nitrogen

40.6

Phosphorus

15.3

Current Bray P1 Soil Test lbs/Acre

98

LMFA 900.803 l)

At Nitrogen Rate P1 Buildup Equals

6.9

# of Apps at N rate to reach 300 P1

29

Target Application Rate Per Acre

40.6

Tons

Nitrogen Rate

Target Application Rate Entire Field

3,036

Tons

### Nitrogen Phosphorus Potassium

146	99	199
165	99	199
0	62	142

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	25	2011	50% of 1.22 / ton
Third Year Following Application	12	2012	25% of 1.22 / ton
Fourth Year Following Application	6	2013	12.5% of 1.22 / ton

# Waste Application Worksheet

## Westridge Dairy

Operation ID: 55078

Field # 5

Field Name John Liefer

Field Acres 50.63

Application Acres 31.72

Crop Year 2010

Crop Corn Silage

Yield Goal 25

Planned Application Acres 31.72

### Nitrogen Phosphorus Potassium

N

P<sub>2</sub>O<sub>5</sub>

K<sub>2</sub>O

Crop Removal per bushel  
Crop Removal(needs) /acre

6.00  
150

2.65  
66

7.00  
175

LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer

0

0

0

LMFA 900.803 m) (7)

Legume

40

Soybeans

LMFA 900.803 m) (7)

Previous Crop

Manure Applications 2007

0

Mineralization Rate = 12.5 %

LMFA 900.803 m) (7)

2008

0

Mineralization Rate = 25 %

LMFA 900.803 m) (7)

2009

27

Mineralization Rate = 50 %

LMFA 900.803 m) (7)

Total Nitrogen Credits

67

LMFA 900.803 m) (7)

### Nitrogen Phosphorus Potassium

### Crop Needs after Credits

83

66

175

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

23.1

LMFA 900.803 m) (8)

Phosphorus

27.0

Current Bray P1 Soil Test lbs/Acre

148

LMFA 900.803 f)

At Nitrogen Rate P1 Buildup Equals

-1.1

# of Apps at N rate to reach 300 P1

0

Soil Test Phosphorus Decreasing

Target Application Rate Per Acre

23.1

Tons

Nitrogen Rate

Target Application Rate Entire Field

732

Tons

### Nitrogen Phosphorus Potassium

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

83  
150  
0

57  
57  
-10

113  
113  
-62

### Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	14	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

# Waste Application Worksheet

## Westridge Dairy

Operation ID: 55078

Field # 7

Field Name Menard 24

Field Acres 20.75

Application Acres 20.75

Crop Year 2010

Crop Corn Silage

Yield Goal 25

Planned Application Acres 20.75

### Nitrogen

### Phosphorus

### Potassium

N

P<sub>2</sub>O<sub>5</sub>

K<sub>2</sub>O

Crop Removal per bushel  
Crop Removal(needs) /acre

6.00  
150

2.65  
66

7.00  
175

LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer

0

0

0

LMFA 900.803 m) (7)

Legume

40

Soybeans

LMFA 900.803 m) (7)

Previous Crop

Manure Applications 2007

0

Mineralization Rate = 12.5 %

LMFA 900.803 m) (7)

2008

0

Mineralization Rate = 25 %

LMFA 900.803 m) (7)

2009

27

Mineralization Rate = 50 %

LMFA 900.803 m) (7)

Total Nitrogen Credits

67

LMFA 900.803 m) (7)

### Nitrogen

### Phosphorus

### Potassium

If Book: Source MWPS 18

### Crop Needs after Credits

83

66

175

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

23.1

LMFA 900.803 m) (8)

Phosphorus

27.0

Current Bray P1 Soil Test lbs/Acre

0

LMFA 900.803 i)

At Nitrogen Rate P1 Buildup Equals

-1.1

# of Apps at N rate to reach 300 P1

0

Soil Test Phosphorus Decreasing

Target Application Rate Per Acre

23.1

Tons

Nitrogen Rate

Target Application Rate Entire Field

479

Tons

### Nitrogen

### Phosphorus

### Potassium

Available Manure Nutrients Applied

83

57

113

Available Nutrients from all sources

150

57

113

Over (Under) application of nutrients

0

-10

-62

### Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	14	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

# Waste Application Worksheet

## Westridge Dairy

Operation ID: 55078

Field # 8 Field Name Nicholson 12 Field Acres 11.55 Application Acres 8.64  
Crop Year 2010 Crop Soybeans Yield Goal 39 Planned Application Acres 8.64

Crop Removal per bushel  
Crop Removal(needs) /acre

**Nitrogen** **Phosphorus** **Potassium**

N

P<sub>2</sub>O<sub>5</sub>

K<sub>2</sub>O

3.75

0.85

1.30

146

33

51

LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer

0

0

0

LMFA 900.803 m) (7)

Legume

0

Corn Silage

LMFA 900.803 m) (7)

Previous Crop

Manure Applications 2007

0

Mineralization Rate = 12.5 %

LMFA 900.803 m) (7)

2008

0

Mineralization Rate = 25 %

LMFA 900.803 m) (7)

2009

9

Mineralization Rate = 50 %

LMFA 900.803 m) (7)

Total Nitrogen Credits

9

LMFA 900.803 m) (7)

**Nitrogen**

**Phosphorus**

**Potassium**

If Book: Source MWPS 18

9.0

3.0

6.0

LMFA 900.803 m) (6)

4.0

### Crop Needs after Credits

Sample Results From:

Manure Source: Solid w/Bedding

Plant Ammonia Nitrogen / ton

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

0.30

Source: MWPS 18 Table 10-5

Plant Available Nitrogen / ton

5.38

### Application Rate Based on

Tons/Acre

Nitrogen

25.5

LMFA 900.803 m) (6)

Phosphorus

11.1

LMFA 900.803 m) (6)

Current Bray P1 Soil Test lbs/Acre

51

At Nitrogen Rate P1 Buildup Equals

4.8

# of Apps at N rate to reach 300 P1

52

Target Application Rate Per Acre

25.5

Tons

Nitrogen Rate

Target Application Rate Entire Field

220

Tons

**Nitrogen**

**Phosphorus**

**Potassium**

Available Manure Nutrients Applied

137

77

153

Available Nutrients from all sources

146

77

153

Over (Under) application of nutrients

0

43

102

### Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	19	2011	50% of 1.50 / ton
Third Year Following Application	10	2012	25% of 1.50 / ton
Fourth Year Following Application	5	2013	12.5% of 1.50 / ton

# 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 2010 Crop Soybeans Yield Goal 43 Planned Application Acres 110.31

### Nitrogen Phosphorus Potassium

N P<sub>2</sub>O<sub>5</sub> K<sub>2</sub>O

Crop Removal per bushel  
Crop Removal(needs) /acre

3.75	0.85	1.30
161	37	56

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 2007  
2008  
2009

0
0
19

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

19
----

LMFA 900.803 m) (7)

### Nitrogen Phosphorus Potassium

### Crop Needs after Credits

142	37	56
-----	----	----

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

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
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### Application Rate Based on

### Tons/Acre

Nitrogen

39.5

LMFA 900.803 m) (8)

Phosphorus

14.9

Current Bray P1 Soil Test lbs/Acre

226.0

LMFA 900.803 m)

At Nitrogen Rate P1 Buildup Equals

6.7

# of Apps at N rate to reach 300-P1

11.0

Target Application Rate Per Acre

39.5

Tons

Nitrogen Rate

Target Application Rate Entire Field

4,360

Tons

### Nitrogen Phosphorus Potassium

Available Manure Nutrients Applied

142	97	194
-----	----	-----

Available Nutrients from all sources

161	97	194
-----	----	-----

Over (Under) application of nutrients

0	60	138
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### Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	24	2011	50% of 1.22 / ton
Third Year Following Application	12	2012	25% of 1.22 / ton
Fourth Year Following Application	6	2013	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 23.56

Crop Removal per bushel  
Crop Removal(needs) /acre

**Nitrogen Phosphorus Potassium**

N P<sub>2</sub>O<sub>5</sub> K<sub>2</sub>O

1.20	0.43	0.28
155	55	36

LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer

0	0	0
---	---	---

LMFA 900.803 m) (7)

Legume

40	Soybeans
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LMFA 900.803 m) (7)

Previous Crop

Manure Applications 2007  
2008  
2009

0
0
27

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

67
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LMFA 900.803 m) (7)

**Nitrogen Phosphorus Potassium**

88	55	36
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LMFA 900.803 m) (6)

Sample Results From:

Manure Source: Solid w/Bedding

Plant Ammonia Nitrogen / ton

If Book: Source MWPS 18

9.0	3.0	6.0
4.0		

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

5.13
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### Application Rate Based on

Tons/Acre

Nitrogen

17.1
------

LMFA 900.803 m) (8)

Phosphorus

18.5
------

LMFA 900.803 l)

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

0
---

Soil Test Phosphorus Decreasing

Target Application Rate Per Acre

17.1
------

Tons

Nitrogen Rate

Target Application Rate Entire Field

403
-----

Tons

**Nitrogen Phosphorus Potassium**

Available Manure Nutrients Applied

88	51	103
----	----	-----

Available Nutrients from all sources

155	51	103
-----	----	-----

Over (Under) application of nutrients

0	-4	67
---	----	----

### Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	11	2011	50% of 1.25 / ton
Third Year Following Application	5	2012	25% of 1.25 / ton
Fourth Year Following Application	3	2013	12.5% of 1.25 / 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<sub>2</sub>O<sub>5</sub>

K<sub>2</sub>O

Crop Removal per bushel  
Crop Removal(needs) /acre

LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer

LMFA 900.803 m) (7)

Legume

Corn Grain

LMFA 900.803 m) (7)

Previous Crop

Manure Applications 2007

Mineralization Rate = 12.5 %

LMFA 900.803 m) (7)

2008

Mineralization Rate = 25 %

LMFA 900.803 m) (7)

2009

Mineralization Rate = 50 %

LMFA 900.803 m) (7)

Total Nitrogen Credits

LMFA 900.803 m) (7)

### Nitrogen

### Phosphorus

### Potassium

### Crop Needs after Credits

LMFA 900.803 m) (6)

Sample Results From:

If Book: Source MWPS 18

Manure Source: Solid w/sand Bedding

Plant Ammonia Nitrogen / ton

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

### Application Rate Based on

Tons/Acre

Nitrogen

LMFA 900.803 m) (8)

Phosphorus

Current Bray P1 Soil Test lbs/Acre

LMFA 900.803 m)

At Nitrogen Rate P1 Buildup Equals

# of Apps at N rate to reach 300 P1

Target Application Rate Per Acre

Tons

Nitrogen Rate

Target Application Rate Entire Field

Tons

### Nitrogen

### Phosphorus

### Potassium

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="21"/>	2011	50% of 1.22 / ton
Third Year Following Application	<input type="text" value="11"/>	2012	25% of 1.22 / ton
Fourth Year Following Application	<input type="text" value="5"/>	2013	12.5% of 1.22 / ton