

# 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	6.00	2.65	7.00	
Crop Removal(needs) /acre	150	66	175	LMFA 900.803 m) (5)

### Nitrogen Credits

Commercial Fertilizer	0	0	0	LMFA 900.803 m) (7)
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Legume	40	Soybeans		LMFA 900.803 m) (7)
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Previous Crop

Manure Applications	0	Mineralization Rate = 12.5 %		LMFA 900.803 m) (7)
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	9	Mineralization Rate = 25 %		LMFA 900.803 m) (7)
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	24	Mineralization Rate = 50 %		LMFA 900.803 m) (7)
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Total Nitrogen Credits	73			LMFA 900.803 m) (7)
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	Nitrogen	Phosphorus	Potassium
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<b>Crop Needs after Credits</b>	77	66	175	LMFA 900.803 m) (6)
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### Sample Results From:

Manure Source: Solid w/sand Bedding

Plant Ammonia Nitrogen / ton

	7.3	2.5	4.9
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	2.5		
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Manure Application Method

Ammonia Loss During Application	3 %	Source: MWPS 18 Table 10-2		LMFA 900.803 m) (4)
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Mineralization Rate - Application Year	0.30	Source: MWPS 18 Table 10-5	
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Plant Available Nitrogen / ton	3.84		
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### Application Rate Based on

#### Tons/Acre

Nitrogen	20.0			LMFA 900.803 m) (8)
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Phosphorus	27.0		
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Current Bray P1 Soil Test lbs/Acre	226			LMFA 900.803 m) (1)
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At Nitrogen Rate P1 Buildup Equals	-1.9		
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# of Apps at N rate to reach 300 P1	0	Soil Test Phosphorus Decreasing	
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Target Application Rate Per Acre	20.0	Tons	Nitrogen Rate
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Target Application Rate Entire Field	2,210	Tons	
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	Nitrogen	Phosphorus	Potassium
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Available Manure Nutrients Applied	77	49	98
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Available Nutrients from all sources	150	49	98
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Over (Under) application of nutrients	0	-17	-77
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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	15	2012	50% of 1.47 / ton
Third Year Following Application	7	2013	25% of 1.47 / ton
Fourth Year Following Application	4	2014	12.5% of 1.47 / 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	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 2008	0	Mineralization Rate = 12.5 %		LMFA 900.803 m) (7)
2009	13	Mineralization Rate = 25 %		LMFA 900.803 m) (7)
2010	11	Mineralization Rate = 50 %		LMFA 900.803 m) (7)
<b>Total Nitrogen Credits</b>	<b>24</b>			LMFA 900.803 m) (7)

	Nitrogen	Phosphorus	Potassium
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<b>Crop Needs after Credits</b>	134	36	55	LMFA 900.803 m) (6)
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### Sample Results From:

Manure Source: Solid w/sand Bedding

Plant Ammonia Nitrogen / ton

Manure Application Method

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	37.1			LMFA 900.803 m) (8)
Phosphorus	14.6			
Current Bray P1 Soil Test lbs/Acre	0			LMFA 900.803 m) (8)
At Nitrogen Rate P1 Buildup Equals	6.1			
# of Apps at N rate to reach 300 P1	49			

**Target Application Rate Per Acre**  **Tons** Nitrogen Rate

**Target Application Rate Entire Field**  **Tons**

	Nitrogen	Phosphorus	Potassium
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Available Manure Nutrients Applied	134	91	182
Available Nutrients from all sources	158	91	182
Over (Under) application of nutrients	0	55	127

### Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	23	2012	50% of 1.22 / ton
Third Year Following Application	11	2013	25% of 1.22 / ton
Fourth Year Following Application	6	2014	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	1.20	0.43	0.28	
Crop Removal(needs) /acre	149	53	35	LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer

0	0	0		LMFA 900.803 m) (7)
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Legume

0	Corn Silage			LMFA 900.803 m) (7)
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Previous Crop

Manure Applications 2008

0			Mineralization Rate = 12.5 %	LMFA 900.803 m) (7)
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2009

13			Mineralization Rate = 25 %	LMFA 900.803 m) (7)
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2010

21			Mineralization Rate = 50 %	LMFA 900.803 m) (7)
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Total Nitrogen Credits

34				LMFA 900.803 m) (7)
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	Nitrogen	Phosphorus	Potassium
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### Crop Needs after Credits

115	53	35		LMFA 900.803 m) (6)
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Sample Results From:

If Book: Source MWPS 18

Manure Source: Solid w/sand Bedding

7.3	2.5	4.9		
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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)
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Mineralization Rate - Application Year

0.25			Source: MWPS 18 Table 10-5	
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Plant Available Nitrogen / ton

3.60				
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### Application Rate Based on

Tons/Acre

Nitrogen

31.9				LMFA 900.803 m) (8)
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Phosphorus

21.8				
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Current Bray P1 Soil Test lbs/Acre

216				LMFA 900.803 i)
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At Nitrogen Rate P1 Buildup Equals

2.8				
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# of Apps at N rate to reach 300 P1

30				
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Target Application Rate Per Acre

31.9			Tons Nitrogen Rate	
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Target Application Rate Entire Field

1,679			Tons	
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	Nitrogen	Phosphorus	Potassium
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Available Manure Nutrients Applied

115	78	156		
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Available Nutrients from all sources

149	78	156		
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Over (Under) application of nutrients

0	25	122		
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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	19	2012	50% of 1.22 / ton
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Third Year Following Application	10	2013	25% of 1.22 / ton
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Fourth Year Following Application	5	2014	12.5% of 1.22 / ton
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# 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	6.00	2.65	7.00	
Crop Removal(needs) /acre	150	66	175	LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer

	0	0	0	LMFA 900.803 m) (7)
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Legume

	40	Soybeans		LMFA 900.803 m) (7)
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Previous Crop

Manure Applications 2008

	0	Mineralization Rate = 12.5 %		LMFA 900.803 m) (7)
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2009

	5	Mineralization Rate = 25 %		LMFA 900.803 m) (7)
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2010

	25	Mineralization Rate = 50 %		LMFA 900.803 m) (7)
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Total Nitrogen Credits

	70			LMFA 900.803 m) (7)
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	Nitrogen	Phosphorus	Potassium
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### Crop Needs after Credits

	80	66	175	LMFA 900.803 m) (6)
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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)
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Mineralization Rate - Application Year

	0.25	Source: MWPS 18 Table 10-5	
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Plant Available Nitrogen / ton

	3.60		
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### Application Rate Based on

Tons/Acre

Nitrogen

	22.2			LMFA 900.803 m) (8)
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Phosphorus

	27.0			LMFA 900.803 m) (8)
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Current Bray P1 Soil Test lbs/Acre

	99			LMFA 900.803 m) (8)
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At Nitrogen Rate P1 Buildup Equals

	-1.3		
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# of Apps at N rate to reach 300 P1

	0		
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Soil Test Phosphorus Decreasing

Target Application Rate Per Acre

	22.2		
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Tons

Nitrogen Rate

Target Application Rate Entire Field

	233		
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Tons

	Nitrogen	Phosphorus	Potassium
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Available Manure Nutrients Applied

	80	54	109	
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Available Nutrients from all sources

	150	54	109	
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Over (Under) application of nutrients

	0	-12	-66	
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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	14	2012	50% of 1.22 / ton
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Third Year Following Application	7	2013	25% of 1.22 / ton
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Fourth Year Following Application	3	2014	12.5% of 1.22 / ton
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# 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	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
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Crop Removal per bushel	3.75	0.85	1.30	
Crop Removal(needs) /acre	165	37	57	LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer	0	0	0	LMFA 900.803 m) (7)
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Legume	0			LMFA 900.803 m) (7)
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Manure Applications	0			LMFA 900.803 m) (7)
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	14			LMFA 900.803 m) (7)
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	11			LMFA 900.803 m) (7)
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Total Nitrogen Credits	25			LMFA 900.803 m) (7)
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	Nitrogen	Phosphorus	Potassium
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	140	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
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Plant Ammonia Nitrogen / ton

	2.5
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Manure Application Method

Ammonia Loss During Application	3%	<small>Source: MWPS 18 Table 10-2</small>		LMFA 900.803 m) (4)
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Mineralization Rate - Application Year	0.25	<small>Source: MWPS 18 Table 10-5</small>	
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Plant Available Nitrogen / ton

	3.60
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### Application Rate Based on

Tons/Acre

Nitrogen	38.9
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LMFA 900.803 m) (8)

Phosphorus	15.3
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Current Bray P1 Soil Test lbs/Acre	194.0
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LMFA 900.803 l)

At Nitrogen Rate P1 Buildup Equals	6.4
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# of Apps at N rate to reach 300-P1	16.5
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Target Application Rate Per Acre	38.9	Tons	<small>Nitrogen Rate</small>
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Target Application Rate Entire Field	909	Tons
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	Nitrogen	Phosphorus	Potassium
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Available Manure Nutrients Applied

	140	95	191
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Available Nutrients from all sources

	165	95	191
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Over (Under) application of nutrients

	0	58	133
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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	2012	50% of 1.22 / ton
Third Year Following Application	12	2013	25% of 1.22 / ton
Fourth Year Following Application	6	2014	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	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
Crop Removal per bushel	3.75	0.85	1.30
Crop Removal(needs) /acre	161	37	56

LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer	0	0	0
Legume	0	Corn Silage	
Manure Applications 2008	0	Mineralization Rate = 12.5 % Mineralization Rate = 25 % Mineralization Rate = 50 %	
2009	14		
2010	14		
<b>Total Nitrogen Credits</b>	<b>28</b>		

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)

	Nitrogen	Phosphorus	Potassium
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<b>Crop Needs after Credits</b>	133	37	56
Sample Results From: Manure Source: Solid w/Bedding	9.0	3.0	6.0
Plant Ammonia Nitrogen / ton	4.0		

LMFA 900.803 m) (6)

If Book: Source MWPS 18

LMFA 900.803 m) (4)

LMFA 900.803 m) (8)

LMFA 900.803 m) (1)

Manure Application Method

Ammonia Loss During Application  % Source: MWPS 18 Table 10-2

Mineralization Rate - Application Year  Source: MWPS 18 Table 10-5

Plant Available Nitrogen / ton

Application Rate Based on	Tons/Acre
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Nitrogen	26.0
Phosphorus	12.2
Current Bray P1 Soil Test lbs/Acre	0
At Nitrogen Rate P1 Buildup Equals	4.6
# of Apps at N rate to reach 300 P1	65

LMFA 900.803 m) (8) Nitrogen Rate

<b>Target Application Rate Per Acre</b>	26.0	<b>Tons</b>
<b>Target Application Rate Entire Field</b>	267	<b>Tons</b>

	Nitrogen	Phosphorus	Potassium
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Available Manure Nutrients Applied	133	78	156
Available Nutrients from all sources	161	78	156
Over (Under) application of nutrients	0	41	100

### Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	16	2012	50% of 1.25 / ton
Third Year Following Application	8	2013	25% of 1.25 / ton
Fourth Year Following Application	4	2014	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

3.75	0.85	1.30
161	37	56

LMFA 900.803 m) (5)

### Nitrogen Credits

Commercial Fertilizer

0	0	0
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LMFA 900.803 m) (7)

Legume

0	<input type="text" value="Corn Silage"/>	
---	--	--

LMFA 900.803 m) (7)

Previous Crop

Manure Applications    2008  
   2009  
   2010

0
14
14

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

28
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LMFA 900.803 m) (7)

Nitrogen	Phosphorus	Potassium
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### Crop Needs after Credits

133	37	56
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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
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Plant Ammonia Nitrogen / ton

2.5
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Manure Application Method

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

37.0
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LMFA 900.803 m) (8)

Phosphorus

14.9
------

Current Bray P1 Soil Test lbs/Acre

0
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LMFA 900.803 i)

At Nitrogen Rate P1 Buildup Equals

6.0
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# of Apps at N rate to reach 300 P1

50
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**Target Application Rate Per Acre**

37.0
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**Tons**

Nitrogen Rate

**Target Application Rate Entire Field**

130
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**Tons**

Nitrogen	Phosphorus	Potassium
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Available Manure Nutrients Applied

133	91	181
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Available Nutrients from all sources

161	91	181
-----	----	-----

Over (Under) application of nutrients

0	54	126
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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

23
----

2012

50% of 1.22 /ton

Third Year Following Application

11
----

2013

25% of 1.22 /ton

Fourth Year Following Application

6
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2014

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	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
Crop Removal per bushel	3.75	0.85	1.30
Crop Removal(needs) /acre	165	37	57

LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer	0	0	0
Legume	0	Corn Grain	
Manure Applications 2008	0	Mineralization Rate = 12.5 %	
2009	14		
2010	18		
<b>Total Nitrogen Credits</b>	<b>32</b>		

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)

	Nitrogen	Phosphorus	Potassium
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	133	37	57
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LMFA 900.803 m) (6)

### Sample Results From:

Manure Source: Solid w/sand Bedding

Plant Ammonia Nitrogen / ton

	7.3	2.5	4.9
	2.5		

If Book: Source MWPS 18

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	37.0
Phosphorus	15.3
Current Bray P1 Soil Test lbs/Acre	126
At Nitrogen Rate P1 Buildup Equals	5.9
# of Apps at N rate to reach 300 P1	29

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
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Available Manure Nutrients Applied	133	91	181
Available Nutrients from all sources	165	91	181
Over (Under) application of nutrients	0	53	124

### 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="23"/>	2012	50% of 1.22 / ton
Third Year Following Application	<input type="text" value="11"/>	2013	25% of 1.22 / ton
Fourth Year Following Application	<input type="text" value="6"/>	2014	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  
 Crop Removal(needs) /acre

3.75	0.85	1.30
165	37	57

LMFA 900.803 m) (6)

### Nitrogen Credits

Commercial Fertilizer  
 Legume

0	0	0
0	Corn Silage	

LMFA 900.803 m) (7)

Previous Crop

LMFA 900.803 m) (7)

Manure Applications    2008  
    2009  
    2010

0
14
14

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

28
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LMFA 900.803 m) (7)

	Nitrogen	Phosphorus	Potassium
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### Crop Needs after Credits

137	37	57
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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
-----

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

38.1
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LMFA 900.803 m) (8)

Phosphorus

15.3
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Current Bray P1 Soil Test lbs/Acre

70
----

LMFA 900.803 m)

At Nitrogen Rate P1 Buildup Equals

6.2
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# of Apps at N rate to reach 300 P1

37
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Target Application Rate Per Acre

38.1
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Tons

Nitrogen Rate

Target Application Rate Entire Field

2,884
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Tons

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

137	93	187
165	93	187
0	56	129

### Nitrogen Mineralization Credit for Future Years

Mineralized Nitrogen / Crop Year	Nitrogen Credit/Acre	Crop Year	Mineralization Rate
Second Year Following Application	23	2012	50% of 1.22 / ton
Third Year Following Application	12	2013	25% of 1.22 / ton
Fourth Year Following Application	6	2014	12.5% of 1.22 / ton