Animal Inventory

Barn # 6	Barn 6
Animal Type	**Dairy - 1400#**
Animal Capacity	**60**
Average Size	**1400**
IDOA Animal Units	**84**
NRCS Animal Units	**84**

Barn # 7	Barn 7
Animal Type	**Dairy - 1400#**
Animal Capacity	**30**
Average Size	**1400**
IDOA Animal Units	**42**
NRCS Animal Units	**42**

Barn # 8	Barn 8
Animal Type	**Dairy - 1400#**
Animal Capacity	**100**
Average Size	**1400**
IDOA Animal Units	**140**
NRCS Animal Units	**140**

Barn # 9	Barn 9
Animal Type	**Dairy - 1400#**
Animal Capacity	**50**
Average Size	**1400**
IDOA Animal Units	**70**
NRCS Animal Units	**70**

Barn # 10	Barn 10
Animal Type	**Dairy - 150#**
Animal Capacity	**75**
Average Size	**150**
IDOA Animal Units	**45**
NRCS Animal Units	**11**

Animal Inventory

Barn # 11 Barn 11

Animal Type	**Dairy - 150#**
Animal Capacity	**75**
Average Size	**150**
IDOA Animal Units	**45**
NRCS Animal Units	**11**

Barn # 12 Barn 12

Animal Type	**Dairy - 1400#**
Animal Capacity	**40**
Average Size	**1400**
IDOA Animal Units	**56**
NRCS Animal Units	**56**

Barn # 13 Barn 13

Animal Type	**Dairy - 250#**
Animal Capacity	**100**
Average Size	**250**
IDOA Animal Units	**60**
NRCS Animal Units	**25**

Total IDOA Animal Units	1,354
Total NRCS Animal Units	1,252

Annual Waste Volume and Nutrient Content - Total Operation

Westridge Dairy

Animal Type	Inventory	Daily Volume day/space	Total Daily Volume	Total Annual Volume	Nutrient Content lbs/day/space			Annual Nutrients Produced		
					N	P_2O_5	K_2O	N	P_2O_5	K_2O
Dairy - 150#	150	13	1,950	711,750	0.0640	0.030	0.050	3,504	1,643	2,738
Dairy - 250#	100	22	2,200	803,000	0.1060	0.040	0.090	3,869	1,460	3,285
Dairy - 1400#	860	120	103,200	37,668,000	0.5950	0.240	0.480	186,771	75,336	150,672
Total Inventory	1110	*Source: MWPS 18 Table 2-1*	107,350	39,182,750		*Source: MWPS 18 Table 2-1*		194,144	78,439	156,695

LMFA 900.803 m) (1), j)

Annual Waste Volume and Nutrient Content - Operation Responsibility

Westridge Dairy

Animal Type	Inventory	Daily Volume day/space	Total Daily Volume	Total Annual Volume	Nutrient Content lbs/day/space			Annual Nutrients Produced		
					N	P_2O_5	K_2O	N	P_2O_5	K_2O
Dairy - 150#	150	13	1,950	711,750	0.0640	0.030	0.050	3,504	1,643	2,738
Dairy - 250#	100	22	2,200	803,000	0.1060	0.040	0.090	3,869	1,460	3,285
Dairy - 1400#	860	120	103,200	37,668,000	0.5950	0.240	0.480	186,771	75,336	150,672
Total Inventory	1110	*Source: MWPS 18 Table 2-1*	107,350	39,182,750		*Source: MWPS 18 Table 2-1*		194,144	78,439	156,695

LMFA 900.803 m) (1), j)

Total Facility Nitrogen - Operation Responsibility

Westridge Dairy

Barn # 1	Barn 1	
Waste Source	Dairy - 1400#	
Animal Spaces	120.00	
Annual Manure Volume Gallons or Lbs	5,256,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	26,061	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	14,479	11,582	Pounds	
N loss during Storage and Handling		30 %		Source: MWPS - 18 Table 10-1
N loss pounds annually (storage)		-3,474	Pounds	
N loss during Land Application		3%		Source: MWPS - 18 Table 10-2
N loss pounds annually (application)		-243	Pounds	
Organic N mineralization factor Year 1	25%			Source: MWPS - 18 Table 10-5
Organic N Mineralized Year 1	3,620		Pounds	
Plant Available N Year 1	3,620	7,864	Pounds	
Total Plant available N Year 1	11,484		Pounds	
Organic N Mineralized Year 2	1,810		Pounds	
Organic N Mineralized Year 3	905		Pounds	
Organic N Mineralized Year 4	452		Pounds	

Barn # 2	Barn 2	
Waste Source	Dairy - 1400#	
Animal Spaces	120.00	
Annual Manure Volume Gallons or Lbs	5,256,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	26,061	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	14,479	11,582	Pounds	
N loss during Storage and Handling		30 %		Source: MW 18 Table 10-
N loss pounds annually (storage)		-3,474	Pounds	
N loss during Land Application		3%		Source: MW 18 Table 10-
N loss pounds annually (application)		-243	Pounds	
Organic N mineralization factor Year 1	25%			Source: MW 18 Table 10-
Organic N Mineralized Year 1	3,620		Pounds	
Plant Available N Year 1	3,620	7,864	Pounds	
Total Plant available N Year 1	11,484		Pounds	
Organic N Mineralized Year 2	1,810		Pounds	
Organic N Mineralized Year 3	905		Pounds	
Organic N Mineralized Year 4	452		Pounds	

Total Facility Nitrogen - Operation Responsibility

Westridge Dairy

Barn # 3	Barn 3	
Waste Source	Dairy - 1400#	
Animal Spaces	120.00	
Annual Manure Volume Gallons or Lbs	5,256,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	26,061	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	14,479	11,582	Pounds	
N loss during Storage and Handling		30 %		Source: MWPS - 18 Table 10-1
N loss pounds annually (storage)		-3,474	Pounds	
N loss during Land Application		3%		Source: MWPS - 18 Table 10-2
N loss pounds annually (application)		-243	Pounds	
Organic N mineralization factor Year 1	25%			Source: MWPS - 18 Table 10-5
Organic N Mineralized Year 1	3,620		Pounds	
Plant Available N Year 1	3,620	7,864	Pounds	
Total Plant available N Year 1	11,484		Pounds	
Organic N Mineralized Year 2	1,810		Pounds	
Organic N Mineralized Year 3	905		Pounds	
Organic N Mineralized Year 4	452		Pounds	

Barn # 4	Barn 4	
Waste Source	Dairy - 1400#	
Animal Spaces	120.00	
Annual Manure Volume Gallons or Lbs	5,256,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	26,061	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	14,479	11,582	Pounds	
N loss during Storage and Handling		30 %		Source: MW 18 Table 10-
N loss pounds annually (storage)		-3,474	Pounds	
N loss during Land Application		3%		Source: MW 18 Table 10-
N loss pounds annually (application)		-243	Pounds	
Organic N mineralization factor Year 1	25%			Source: MW 18 Table 10-
Organic N Mineralized Year 1	3,620		Pounds	
Plant Available N Year 1	3,620	7,864	Pounds	
Total Plant available N Year 1	11,484		Pounds	
Organic N Mineralized Year 2	1,810		Pounds	
Organic N Mineralized Year 3	905		Pounds	
Organic N Mineralized Year 4	452		Pounds	

Total Facility Nitrogen - Operation Responsibility

Westridge Dairy

Barn # 5	Barn 5	
Waste Source	Dairy - 1400#	
Animal Spaces	100.00	
Annual Manure Volume Gallons or Lbs	4,380,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	21,718	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	12,066	9,651	Pounds	
N loss during Storage and Handling		30 %		Source: MWPS - 18 Table 10-1
N loss pounds annually (storage)		-2,895	Pounds	
N loss during Land Application		3%		Source: MWPS - 18 Table 10-2
N loss pounds annually (application)		-203	Pounds	
Organic N mineralization factor Year 1	25%			Source: MWPS - 18 Table 10-5
Organic N Mineralized Year 1	3,017		Pounds	
Plant Available N Year 1	3,017	6,553	Pounds	
Total Plant available N Year 1	9,570		Pounds	
Organic N Mineralized Year 2	1,508		Pounds	
Organic N Mineralized Year 3	754		Pounds	
Organic N Mineralized Year 4	377		Pounds	

Barn # 6	Barn 6	
Waste Source	Dairy - 1400#	
Animal Spaces	60.00	
Annual Manure Volume Gallons or Lbs	2,628,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	13,031	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	7,240	5,791	Pounds	
N loss during Storage and Handling		30 %		Source: MW 18 Table 10-
N loss pounds annually (storage)		-1,737	Pounds	
N loss during Land Application		3%		Source: MW 18 Table 10-
N loss pounds annually (application)		-122	Pounds	
Organic N mineralization factor Year 1	25%			Source: MW 18 Table 10-
Organic N Mineralized Year 1	1,810		Pounds	
Plant Available N Year 1	1,810	3,932	Pounds	
Total Plant available N Year 1	5,742		Pounds	
Organic N Mineralized Year 2	905		Pounds	
Organic N Mineralized Year 3	452		Pounds	
Organic N Mineralized Year 4	226		Pounds	

Total Facility Nitrogen - Operation Responsibility

Westridge Dairy

Barn # 7	Barn 7	
Waste Source	Dairy - 1400#	
Animal Spaces	30.00	
Annual Manure Volume Gallons or Lbs	1,314,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	6,515	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	3,620	2,895	Pounds	
N loss during Storage and Handling		30 %		Source: MWPS - 18 Table 10-1
N loss pounds annually (storage)		-869	Pounds	
N loss during Land Application		3%		Source: MWPS - 18 Table 10-2
N loss pounds annually (application)		-61	Pounds	
Organic N mineralization factor Year 1	25%			Source: MWPS - 18 Table 10-5
Organic N Mineralized Year 1	905		Pounds	
Plant Available N Year 1	905	1,966	Pounds	
Total Plant available N Year 1	2,871		Pounds	
Organic N Mineralized Year 2	452		Pounds	
Organic N Mineralized Year 3	226		Pounds	
Organic N Mineralized Year 4	113		Pounds	

Barn # 8	Barn 8	
Waste Source	Dairy - 1400#	
Animal Spaces	100.00	
Annual Manure Volume Gallons or Lbs	4,380,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	21,718	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	12,066	9,651	Pounds	
N loss during Storage and Handling		30 %		Source: MW 18 Table 10-
N loss pounds annually (storage)		-2,895	Pounds	
N loss during Land Application		3%		Source: MW 18 Table 10-
N loss pounds annually (application)		-203	Pounds	
Organic N mineralization factor Year 1	25%			Source: MW 18 Table 10-
Organic N Mineralized Year 1	3,017		Pounds	
Plant Available N Year 1	3,017	6,553	Pounds	
Total Plant available N Year 1	9,570		Pounds	
Organic N Mineralized Year 2	1,508		Pounds	
Organic N Mineralized Year 3	754		Pounds	
Organic N Mineralized Year 4	377		Pounds	

Total Facility Nitrogen - Operation Responsibility

Westridge Dairy

Barn # 9	Barn 9	
Waste Source	Dairy - 1400#	
Animal Spaces	50.00	
Annual Manure Volume Gallons or Lbs	2,190,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	10,859	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	6,033	4,826	Pounds	
N loss during Storage and Handling		27.5 %		Source: MWPS - 18 Table 10-1
N loss pounds annually (storage)		-1,327	Pounds	
N loss during Land Application		3%		Source: MWPS - 18 Table 10-2
N loss pounds annually (application)		-105	Pounds	
Organic N mineralization factor Year 1	25%			Source: MWPS - 18 Table 10-5
Organic N Mineralized Year 1	1,508		Pounds	
Plant Available N Year 1	1,508	3,394	Pounds	
Total Plant available N Year 1		4,902	Pounds	
Organic N Mineralized Year 2	754		Pounds	
Organic N Mineralized Year 3	377		Pounds	
Organic N Mineralized Year 4	189		Pounds	

Barn # 10	Barn 10	
Waste Source	Dairy - 150#	
Animal Spaces	75.00	
Annual Manure Volume Gallons or Lbs	355,875	
Total N per Animal Space	0.0640	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	1,752	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	973	779	Pounds	
N loss during Storage and Handling		30 %		Source: MW 18 Table 10-
N loss pounds annually (storage)		-234	Pounds	
N loss during Land Application		3%		Source: MW 18 Table 10-
N loss pounds annually (application)		-16	Pounds	
Organic N mineralization factor Year 1	25%			Source: MW 18 Table 10-
Organic N Mineralized Year 1	243		Pounds	
Plant Available N Year 1	243	529	Pounds	
Total Plant available N Year 1		772	Pounds	
Organic N Mineralized Year 2	122		Pounds	
Organic N Mineralized Year 3	61		Pounds	
Organic N Mineralized Year 4	30		Pounds	

Total Facility Nitrogen - Operation Responsibility

Westridge Dairy

Barn # 11	Barn 11	
Waste Source	Dairy - 150#	
Animal Spaces	75.00	
Annual Manure Volume Gallons or Lbs	355,875	
Total N per Animal Space	0.0640	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	1,752	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	973	779	Pounds	
N loss during Storage and Handling		30 %		Source: MWPS - 18 Table 10-1
N loss pounds annually (storage)		-234	Pounds	
N loss during Land Application		3%		Source: MWPS - 18 Table 10-2
N loss pounds annually (application)		-16	Pounds	
Organic N mineralization factor Year 1	25%			Source: MWPS - 18 Table 10-5
Organic N Mineralized Year 1	243		Pounds	
Plant Available N Year 1	243	529	Pounds	
Total Plant available N Year 1	772		Pounds	
Organic N Mineralized Year 2	122		Pounds	
Organic N Mineralized Year 3	61		Pounds	
Organic N Mineralized Year 4	30		Pounds	

Barn # 12	Barn 12	
Waste Source	Dairy - 1400#	
Animal Spaces	40.00	
Annual Manure Volume Gallons or Lbs	1,752,000	
Total N per Animal Space	0.5950	Source: MWPS - 18 Table 2-1
Total N Annually from Source - Pounds	8,687	
Ammonium % of Total N	44.44	Source: MWPS - 18 Table 10-6 and 7

	Organic	Inorganic		
N Pounds Annually	4,826	3,861	Pounds	
N loss during Storage and Handling		27.5 %		Source: MW 18 Table 10-
N loss pounds annually (storage)		-1,062	Pounds	
N loss during Land Application		3%		Source: MW 18 Table 10-
N loss pounds annually (application)		-84	Pounds	
Organic N mineralization factor Year 1	25%			Source: MW 18 Table 10-
Organic N Mineralized Year 1	1,207		Pounds	
Plant Available N Year 1	1,207	2,715	Pounds	
Total Plant available N Year 1	3,922		Pounds	
Organic N Mineralized Year 2	603		Pounds	
Organic N Mineralized Year 3	302		Pounds	
Organic N Mineralized Year 4	151		Pounds	

Total Facility Nitrogen - Operation Responsibility

Westridge Dairy

Barn # 13	Barn 13	
Waste Source	Dairy - 250#	
Animal Spaces	100.00	
Annual Manure Volume Gallons or Lbs	803,000	
Total N per Animal Space	0.1060	*Source: MWPS - 18 Table 2-1*
Total N Annually from Source - Pounds	3,869	
Ammonium % of Total N	44.44	*Source: MWPS - 18 Table 10-6 and 7*

	Organic	Inorganic	
N Pounds Annually	2,150	1,719	Pounds
N loss during Storage and Handling		27.5 %	*Source: MWPS - 18 Table 10-1*
N loss pounds annually (storage)		-473	Pounds
N loss during Land Application		3%	*Source: MWPS - 18 Table 10-2*
N loss pounds annually (application)		-37	Pounds
Organic N mineralization factor Year 1	25%		*Source: MWPS - 18 Table 10-5*
Organic N Mineralized Year 1	537		Pounds
Plant Available N Year 1	537	1,209	Pounds
Total Plant available N Year 1	1,747		Pounds
Organic N Mineralized Year 2	269		Pounds
Organic N Mineralized Year 3	134		Pounds
Organic N Mineralized Year 4	67		Pounds

Total Facility Nitrogen - Operation Responsibility

Westridge Dairy

Land Required to Dispose of Waste for Corn Grain Yield AVG

Avg Corn Grain Yield	132
Acres required for Application	543.00