

Nutrient Production

Car-Mer Dairy

Nutrient Production							
Per 1,000 Gal							
Type of animal	Gallons or Tons produced*	Total N	P2O5	K2O	Total N Produced Per Year	Total P2O5 Produced Per Year	Total K2O Produced Per Year
Liquid	3,064,482	43.5	18.7	22	133,305	57,306	67,419
Solid	1,530	10.4	5.1	6.2	15,912	7,803	9,486
Whole Farm					133,305	57,306	67,419

* From Waste volume calculation page

Crop Nutrient Need

Per Acre

Crop	Yield	N lbs/ac	P2O5 lbs/ac	K2O lbs/ac	Acres needed based on N produced**	Acres needed based on P2O5 produced***
Corn (continuous)	190.0	228	82	53	585	699
Corn (bean rotation)	190.0	188	82	53	709	699
Beans	55.0	0	46.5	71.5	n/a	1,232
Silage	20.0	120	53	140	1111	1,081
Alfalfa Hay	10.0	0	120	500	n/a	478
Grass	3.0	150	36	150	889	1,592

**Total N produced/N needed per acre

***Total P produced/P needed per acre

Current crop rotation			
Crop	Acres	N needed	P2O5 needed
Corn (continuous)	132	30,096	10,824
Corn (bean rotation)	87	16,356	7,134
Beans	144	0	6,694
Silage	106	12,768	5,639
Alfalfa Hay	326	0	39,065
Grass	0	0	0
Total	795	59,220	69,356

Calculations do not take into account nutrient losses from application of waste.