

## Nutrient Production

### Car-Mer Dairy

Nutrient Production							
Per 1,000 Gal							
Type of animal	Gallons or Tons produced*	Total N	P2O5	K2O	Total N	Total P2O5	Total K2O
					Produced Per Year	Produced Per Year	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
<b>Whole Farm</b>					<b>133,305</b>	<b>57,306</b>	<b>67,419</b>

\* 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
<b>Total</b>	<b>795</b>	<b>59,220</b>	<b>69,356</b>

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