

Nutrient Production

Birchen Farms INC.

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	7,412,226	16	7.9	18	118,596	58,557	133,420
Solid	4,670	9	3	6	42,030	14,010	28,020
Whole Farm					160,626	72,567	161,440

* 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)	180.0	216	77	50	744	942
Corn (bean rotation)	180.0	176	77	50	913	942
Oat/Alfalfa	60.0	60	23	12	2677	3,155
Wheat	80.0	80	72	24	2008	1,008
Alfalfa Hay	7.0	0	84	350	n/a	864
Silage	30.0	180	80	210	892	907

**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)	109	23,544	8,393
Corn (bean rotation)	0	0	0
Oat/Alfalfa	123	7,367	2,824
Wheat	0	0	0
Alfalfa Hay	506	0	42,472
Silage	198	35,705	15,869
Total	936	66,616	69,558

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