

**Nutrient Production**  
**Rancho Cantera LLC**

Nutrient Production							
Per 1,000 Gal							
Type of animal	Gallons Produced *	Total N	P2O5	K2O	Total N Produced Per Year	Total P2O5 Produced Per Year	Total K2O Produced Per Year
Holding Pond	16,418,739	7.47	3.60	5.65	122,716	59,109	92,757
<b>Whole Farm</b>					<b>122,716</b>	<b>59,109</b>	<b>92,757</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)	195.0	197	84	54	623	704
Corn (bean rotation)	195.0	153	84	54	802	704
Beans	50.0	0	42	65	n/a	1,407
Wheat	60.0	60	54	18	2045	1,095
Alfalfa Hay	4.0	0	48	200	n/a	1,231
Grass	3.0	150	36	150	818	1,642

\*\*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)	1,290	254,122	108,357
Corn (bean rotation)	0	0	0
Beans	0	0	0
Wheat	0	0	0
Alfalfa Hay	0	0	0
Grass	0	0	0
<b>Total</b>	<b>1,290</b>	<b>254,122</b>	<b>108,357</b>

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