

1c - Dairy					
Operation Name:		Fehr Farm			
Type	Storage Type	Volatilization	Animal Numbers	N Excreted Per Herd Adjusted for Storage N Loss (lb N/yr/herd)	P2O5 Excreted Per Herd Per Year (lb P2O5/year)
Mature Cows, plus associated livestock	Liquid Uncovered Earthen	30%	375	116972.3	57823.3

Last Revised October 18, 2019

2 - Crop Rotation
Operation Name:
Fehr Farm

Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake	
	P205	N	N	Units				P205 (lb)	N (lb)	N (lb)	
Alfalfa	13.8	58	58	lb/ton	3.28	ton/ac	371	16793	70579	70579	
Barley Grain	0.42	0.97	1.39	lb/bu		bu/ac		-	-	-	
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac		-	-	-	
Canola	1.04	1.93	3.19	lb/bu		bu/ac		-	-	-	
Corn Grain	0.44	0.97	1.53	lb/bu	136.3	bu/ac	169	10135	22344	35243	
Corn Silage	12.7	31.2	31.2	lb/ton	4.6	tons/ac	408	23835	58556	58556	
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac		-	-	-	
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac		-	-	-	
Flax	0.65	2.13	2.88	lb/bu		bu/ac		-	-	-	
Grass Hay	10	34.2	34.2	lb/ton	3.28	tons/ac	137	4494	15368	15368	
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac		-	-	-	
Oats	0.26	0.62	1.07	lb/bu		bu/ac		-	-	-	
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac	86	430	1471	1471	
Peas	0.69	2.34	3.06	lb/bu		bu/ac		-	-	-	
Potatoes	0.09	0.32	0.57	lb/cwt		cwt/ac		-	-	-	
Rye	0.45	1.06	1.67	lb/bu		bu/ac		-	-	-	
Soybeans	0.84	3.87	5.2	lb/bu	37.2	bu/ac	80	2500	11517	15475	
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-	
Wheat - Spring	0.59	1.5	2.11	lb/bu		bu/ac		-	-	-	
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-	
Total Acres							1251	58187	179835	196692	
Estimated Average Removal/Uptake (lb/ac)								46.5	143.8	157.2	
Acres in Hanover and La Broquerie							1251				
Proportion in Hanover or La Broquerie							100%				
Additional Acres											
Crop Planned on Additional Acres											
Total Acreage							1251				
*Notes: Enter the number of acres that are in the RM's of Hanover or La Broquerie in cell H26. Additional acres include acres for which crop removal or soil data is limited or unavailable.											

Last revised December 18, 2017

3 - Farm Excretion
Operation Name: Fehr Farm

Species	Animal Category/Operation type	N (lb/year)	P2O5 (lb/year)
Pigs	Boars	0	0
	Weanlings/Nursery	0	0
	Growers/Finishers	0	0
	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	0	0
Beef	Mature Cows and Bred Heifers, plus associated livestock	0	0
	Feedlot Cattle - long keep	0	0
	Feedlot Cattle - short keep	0	0
	Backgrounders - pasture	0	0
	Backgrounders - confined	0	0
Dairy	Lactating cow	0	0
	Lactating First Calf Heifer	0	0
	Dry cow	0	0
	Calf, 0-3 months	0	0
	Calf, 4-13 months	0	0
	Replacements, >13 months	0	0
	Mature Cows, plus assoc livestock	116972	57823
Sheep	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
Chickens	Light Broilers	0	0
	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
Layers	White Layer Pullets	0	0
	White Layer Hens	0	0
	White Breeder Pullets	0	0
	White Breeder Hens	0	0
	Brown Layer Pullets	0	0
	Brown Layer Hens	0	0
	Brown Breeder Pullets	0	0
	Brown Breeder Hens	0	0
Turkeys	Broiler Turkey (0-9 wks)	0	0
	Hen Turkey (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	0	0
	Toms (0-14 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (31-End of Lay)	0	0
	Breeding Tom Grower (0-17 wks)	0	0
	Breeding Tom Grower (17-30 wks)	0	0
	Breeding Tom (31-End of Lay)	0	0
Total		116972	57823

Note:

Be sure all livestock species on your farm are represented in this table, not just the livestock in the proposed expansion.

4 - Land Base Summary	
Operation Name:	Fehr Farm
Nutrients Excreted	lbs
Nitrogen	116972
Phosphorus (P2O5)	57823
Crop Nutrient Use	lb/ac
Average Crop N Uptake	157.2
Average Crop Phosphorus (P2O5) Removal	46.5
Operation-specific Phosphorus (P2O5) Allowance	46.5
Land Available	1251
Land Base Required	acres
Acres for Nitrogen	744
Acres for Phosphorus (P2O5)	1243
Phosphorus Balance	acres
Acres for Phosphorus Balance (1X)	1243
Note: For lands located in Hanover and/or La Broquerie, the acres required for phosphorus are based on phosphorus balance (1X). For other lands, the acres required for phosphorus are based on twice crop phosphorus removal (2X). Land requirements for operations with lands inside and outside Hanover and/or La Broquerie are based on a weighted average.	

Last revised November 26, 2019