

**1c - Dairy**

Operation Name:

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%	1800	561467.3	277552.0

Last Revised October 18, 2019

2 - Crop Rotation										
Operation Name: Enter the operation name on the livestock tab(s)										
Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake
	P2O5	N	N	Units				(lb)	N	(lb)
Alfalfa	13.8	58	58	lb/ton	2.8591	ton/ac	779.8	30767	129313	129313
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	36	bu/ac	638	23887	44328	73268
Corn Grain	0.44	0.97	1.53	lb/bu	125.2	bu/ac	720.7	39702	87525	138054
Corn Silage	12.7	31.2	31.2	lb/ton	4.61335	tons/ac	470.1	27543	67665	67665
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		tons/ac		-	-	-
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac		-	-	-
Oats	0.26	0.62	1.07	lb/bu	97.7	bu/ac	107	2718	6481	11186
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac		-	-	-
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	34.7	bu/ac	742.3	21637	99683	133941
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	59.6	bu/ac	927.1	32601	82883	116588
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-
<b>Total Acres</b>							4385	178854	517877	670014
<b>Estimated Average Removal/Uptake (lb/ac)</b>								40.8	118.1	152.8
<b>Acres in Hanover and La Broquerie</b>										
<b>Proportion in Hanover or La Broquerie</b>							0%			
<b>Additional Acres</b>										
<b>Crop Planned on Additional Acres</b>										
<b>Total Acreage</b>							4385			
<b>*Notes:</b>	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.									

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**3 - Farm Excretion**

**Operation Name:** Enter the operation name on the livestock tab(s)

Species	Animal Category/Operation type	N (lb/year)	P205 (lb/year)
<b>Pigs</b>	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
<b>Beef</b>	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
<b>Dairy</b>	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	561467	277552
<b>Sheep</b>	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
<b>Chickens</b>	Light Broilers	0	0
	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
<b>Layers</b>	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
<b>Turkeys</b>	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
<b>Total</b>		<b>561467</b>	<b>277552</b>

**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:** Enter the operation name on the livestock tab(s)

<b>Nutrients Excreted</b>	<b>lbs</b>
Nitrogen	561467
Phosphorus (P2O5)	277552
<b>Crop Nutrient Use</b>	
	<b>lb/ac</b>
Average Crop N Uptake	152.8
Average Crop Phosphorus (P2O5) Removal	40.8
Operation-specific Phosphorus (P2O5) Allowance	81.6
<b>Land Available</b>	<b>4385</b>
<b>Land Base Required</b>	
	<b>acres</b>
Acres for Nitrogen	<b>3675</b>
Acres for Phosphorus (P2O5)	<b>3402</b>
<b>Phosphorus Balance</b>	
	<b>acres</b>
Acres for Phosphorus Balance (1X)	<b>6805</b>

**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.**

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