

1a - Pigs
Operation Name:

Operation Type	Storage Type	Volatilization	Animal Numbers (Places)	N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)	P2O5 Excreted Per Herd Per Year (lb/yr/herd)
Gilts (Purchased)	Liquid Uncovered Earthen	30%		0	0
Boars	Liquid Uncovered Earthen	30%		0	0
Weanlings/Nursery	Liquid Uncovered Earthen	30%		0	0
Growers/Finishers	Liquid Uncovered Earthen	30%		0	0
Sows, farrow to 6.2 kg	Liquid Uncovered Earthen	30%		0	0
Sows, farrow to 28 kg	Liquid Uncovered Earthen	30%		0	0
Sows, farrow to finish	Liquid Uncovered Earthen	30%	1250	339412	197146

Last Revised February 12, 2020

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 Steel/Concrete	20%	8	2851.9	1233.6

Last Revised October 18, 2019

1e - Poultry

Operation Name:

Species / Commodity	Type of Operation	Storage Type	Volatilization	Bird Places	Weight in kg	Weight out kg	Days on Feed	Cycles per Year	N Excreted Adjusted for N Loss lb/flock/yr	P2O5 Excreted lb/flock/yr
Chickens	Light Broilers	Solid Manure Shed	20%	2000	0.043	1.8	30	7	0	0
Chickens	Broilers	Solid Manure Shed	20%		0.043	2.275	35	7	1395	695
Chickens	Broiler Breeder Pullets	Solid Manure Shed	20%		0.040	2.975	168	2	0	0
Chickens	Broiler Breeder Hens	Solid Manure Shed	20%		2.975	3.950	245	1	0	0
Eggs	White Layer Pullets	Solid Manure Shed	20%	9500	0.040	1.355	133	2	3262	2355
Eggs	White Layer Hens	Solid Manure Shed	20%	18500	1.355	1.875	357	1	19580	16195
Eggs	White Breeder Pullets	Solid Manure Shed	20%		0.040	1.240	119	2	0	0
Eggs	White Breeder Hens	Solid Manure Shed	20%		1.240	1.670	350	1	0	0
Eggs	Brown Layer Pullets	Solid Manure Shed	20%		0.040	1.630	133	2	0	0
Eggs	Brown Layer Hens	Solid Manure Shed	20%		1.630	2.025	357	1	0	0
Eggs	Brown Breeder Pullets	Solid Manure Shed	20%		0.040	1.407	119	2	0	0
Eggs	Brown Breeder Hens	Solid Manure Shed	20%		1.407	1.950	350	1	0	0
Turkey	Broiler Turkey (0-9 wks)	Solid Manure Shed	20%	30000	0.070	4.950	63	5	53619	28998
Turkey	Hen Turkey (0-11 wks)	Solid Manure Shed	20%		0.070	6.650	77	4	0	0
Turkey	Heavy Hens (0-14 wks)	Solid Manure Shed	20%	51800	0.070	9.750	98	3	126844	72344
Turkey	Toms (0-14 wks)	Solid Manure Shed	20%		0.070	13.000	98	3	0	0
Turkey	Breeding Hen Growers (0-30 wks)	Solid Manure Shed	20%		0.070	12.900	210	1	0	0
Turkey	Breeding Hens (31-End of Lay)	Solid Manure Shed	20%		12.900	12.400	252	1	0	0
Turkey	Breeding Tom Grower (0-17 wks)	Solid Manure Shed	20%		0.070	15.770	119	1	0	0
Turkey	Breeding Tom Grower (17-30 wks)	Solid Manure Shed	20%		15.770	25.000	91	1	0	0
Turkey	Breeding Tom (31-End of Lay)	Solid Manure Shed	20%		25.000	28.180	252	1	0	0

Last Revised November 26, 2019

2 - Crop Rotation

Operation Name:

Enter the operation name on the livestock tab(s)

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		ton/ac		-	-	-	
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	47.3	bu/ac	1719	84561	156926	259375	
Corn Grain	0.44	0.97	1.53	lb/bu	146	bu/ac	2523	162078	357307	563588	
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac		-	-	-	
Dry Edible Beans	1.39	4.17		lb/cwt	15.79	cwt/ac	1222	26821	80462	-	
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		bu/ac		-	-	-	
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	251.89	cwt/ac	946	21446	76252	135824	
Rye	0.45	1.06	1.67	lb/bu		bu/ac		-	-	-	
Soybeans	0.84	3.87	5.2	lb/bu	35.6	bu/ac	213	6370	29345	39431	
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-	
Wheat - Spring	0.59	1.5	2.11	lb/bu	65.3	bu/ac	1262	48621	123613	173882	
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-	
Total Acres							7885	349896	823905	1172099	
Estimated Average Removal/Uptake (lb/ac)								44.4	104.5	148.6	
Acres in Hanover and La Broquerie											
Proportion in Hanover or La Broquerie							0%				
Additional Acres							428				
Crop Planned on Additional Acres similar crop rotation to above											
Total Acreage							8313				
*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: Enter the operation name on the livestock tab(s)

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	339412	197146
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	2852	1234
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	1395	695
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
Layers	White Layer Pullets	3262	2355
	White Layer Hens	19580	16195
	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)	53619	28998
	Hen Turkey (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	126844	72344
	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		546963	318967

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)

Nutrients Excreted	lbs
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Nitrogen	546963
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Phosphorus (P2O5)	318967
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Crop Nutrient Use	lb/ac
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Average Crop N Uptake	148.6
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Average Crop Phosphorus (P2O5) Removal	44.4
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Operation-specific Phosphorus (P2O5) Allowance	88.7
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Land Available	8313
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Land Base Required	acres
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Acres for Nitrogen	3680
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Acres for Phosphorus (P2O5)	3594
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Phosphorus Balance	acres
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Acres for Phosphorus Balance (1X)	7188
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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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