

**1a - Pigs**

**Operation Name:**

<b>Operation Type</b>	<b>Storage Type</b>	<b>Volatilization</b>	<b>Animal Numbers (Places)</b>	<b>N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)</b>	<b>P2O5 Excreted Per Herd Per Year (lb/yr/herd)</b>
Gilts (Purchased)	Liquid Uncovered Earthen	30%		0	0
Boars	Liquid Uncovered Earthen	30%		0	0
Meanlings/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 Covered	10%	550	192010	86744

Last Revised February 12, 2020

1a - 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%		0.043	1.8	30	7	0	0
Chickens	Broilers	Solid Manure Shed	20%	85000	0.043	2.275	35	7	59281	29543
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%	18000	0.040	1.355	133	2	6180	4463
Eggs	White Layer Hens	Solid Manure Shed	20%	12000	1.355	1.875	357	1	12700	10505
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%		0.070	4.950	63	5	0	0
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%	18000	0.070	9.750	98	3	44077	25139
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

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							
Barley Grain	0.42	0.97	1.39	lb/bu	94.9	ton/ac	980	-	-	-	-
Barley Silage	11.8	34.4	34.4	lb/ton				39061	90212	129273	
Canola	1.04	1.93	3.19	lb/bu	48.9	bu/ac	1247	-	-	-	-
Corn Grain	0.44	0.97	1.53	lb/bu	129	bu/ac	470	63417	117688	194521	
Corn Silage	12.7	31.2	31.2	lb/ton				26677	58811	92764	
Dry Edible Beans	1.39	4.17		lb/cwt				-	-	-	-
Fababeans	1.79	5.02	8.4	lb/cwt				-	-	-	-
Flax	0.65	2.13	2.88	lb/bu				-	-	-	-
Grass Hay	10	34.2	34.2	lb/ton				-	-	-	-
Lentils	1.03	3.39	5.08	lb/cwt				-	-	-	-
Oats	0.26	0.62	1.07	lb/bu	133.1	bu/ac	226	-	-	-	-
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac		7821	18650	32186	
Peas	0.69	2.34	3.06	lb/bu				-	-	-	-
Potatoes	0.09	0.32	0.57	lb/cwt				-	-	-	-
Rye	0.45	1.06	1.67	lb/bu				-	-	-	-
Soybeans	0.84	3.87	5.2	lb/bu	35.9	bu/ac	1205	-	-	-	-
Sunflower	1.1	2.8		lb/cwt				-	-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	67.2	bu/ac	540	21410	54432	76568	
Wheat - Winter	0.51	1.04	1.35	lb/bu	78.7	bu/ac	767	30785	62777	81490	
<b>Total Acres</b>							5435	225509	569985	831751	
<b>Estimated Average Removal/Uptake (lb/ac)</b>								41.5	104.9	153.0	
<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>							5435				

\*Notes:

Enter the number of acres that are in the RW'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)
<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	192010	86744
<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	0	0
<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	59281	29543
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
<b>Layers</b>	White Layer Pullets	6180	4463
	White Layer Hens	12700	10505
	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)	44077	25139
	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>314249</b>	<b>156394</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)****Nutrients Excreted****lbs**

Nitrogen

314249

Phosphorus (P2O5)

156394

**Crop Nutrient Use****lb/ac**

Average Crop N Uptake

153.0

Average Crop Phosphorus (P2O5) Removal

41.5

Operation-specific Phosphorus (P2O5) Allowance

83.0

**Land Available**

5435

**Land Base Required****acres**

Acres for Nitrogen

2053

Acres for Phosphorus (P2O5)

1885

**Phosphorus Balance****acres**

Acres for Phosphorus Balance (1X)

3769

**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