

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%	1000	271530	157717

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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%	30000	0.043	1.8	30	7	0	0
Chickens	Broilers	Field Storage	40%		0.043	2.275	35	7.5	16813	11172
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%		0.040	1.355	133	2	0	0
Eggs	White Layer Hens	Solid Manure Shed	20%		1.355	1.875	357	1	0	0
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%	600	0.070	4.950	63	5	0	0
Turkey	Hen Turkey (0-11 wks)	Field Storage	40%		0.070	6.650	77	1.5	348	279
Turkey	Heavy Hens (0-14 wks)	Field Storage	40%		0.070	9.750	98	4	23263	17690
Turkey	Toms (0-14 wks)	Solid Manure Shed	20%		0.070	13.000	98	1	0	0
Turkey	Breeding Hen Growers (0-30 wks)	Solid Manure Shed	20%	9500	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

The 600 "Turkey Hens" are mixture of 600 meat ducks and geese

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				P2O5 (lb)	N (lb)	N (lb)	
Alfalfa	13.8	58	58	lb/ton		ton/ac		-	-	-	
Barley Grain	0.42	0.97	1.39	lb/bu	77	bu/ac	740	23932	55271	79202	
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac		-	-	-	
Canola	1.04	1.93	3.19	lb/bu	43.5	bu/ac	1100	49764	92351	152642	
Corn Grain	0.44	0.97	1.53	lb/bu	128.6	bu/ac	735	41589	91685	144617	
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac		-	-	-	
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		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		cwt/ac		-	-	-	
Rye	0.45	1.06	1.67	lb/bu		bu/ac		-	-	-	
Soybeans	0.84	3.87	5.2	lb/bu	37.9	bu/ac	516	16427	75683	101693	
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-	
Wheat - Spring	0.59	1.5	2.11	lb/bu	64.2	bu/ac	590	22348	56817	79923	
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-	
Total Acres							3681	154060	371807	558077	
Estimated Average Removal/Uptake (lb/ac)								41.9	101.0	151.6	
Acres in Hanover and La Broquerie											
Proportion in Hanover or La Broquerie							0%				
Additional Acres											
Crop Planned on Additional Acres											
Total Acreage							3681				
*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.											

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	271530	157717
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	0	0
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	16813	11172
	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)	348	279
	Heavy Hens (0-14 wks)	23263	17690
	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		311953	186858
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	311953
Phosphorus (P2O5)	186858
Crop Nutrient Use	lb/ac
Average Crop N Uptake	151.6
Average Crop Phosphorus (P2O5) Removal	41.9
Operation-specific Phosphorus (P2O5) Allowance	83.7
Land Available	3681
Land Base Required	acres
Acres for Nitrogen	2058
Acres for Phosphorus (P2O5)	2232
Phosphorus Balance	acres
Acres for Phosphorus Balance (1X)	4465
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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