4 - Land Base Summary	
Operation Name:	Enter the operation name on the livestock tab(s)
Nutrients Excreted	lbs
Nitrogen	201064
Phosphorus (P2O5)	123382
Crop Nutrient Use	lb/ac
Average Crop N Uptake	146,2
Average Crop Phosphorus (P2O5) Removal	37.0
Operation-specific Phosphorus (P2O5) Allowance	74.0
Land Available	5829
Land Base Required	acres
Acres for Nitrogen	1375
Acres for Phosphorus (P2O5)	1666
Phosphorus Balance	acres
Acres for Phosphorus Balance (1X)	3333

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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Species	Enter the operation name on the livestock tab(s) Animal Category/Operation type	N	P205
		(lb/year)	(lb/year
	Boars	0	0
	Weanlings/Nursery	0	0
Dies	Growers/Finishers	0	0
Pigs	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	162918	94630
	Mature Cows and Bred Heifers, plus associated livestock	5916	2448
	Feedlot Cattle - long keep	0	0
Beef	Feedlot Cattle - short keep	0	0
	Backgrounders - pasture	0	0
	Backgrounders - confined	0	0
	Lactating cow	0	0
	Lactating First Calf Heifer	0	0
	Dry cow	0	0
Dairy	Calf, 0-3 months	0	0
	Calf, 4-13 months	0	0
	Replacements, >13 months	0	0
	Mature Cows, plus assoc livestock	1872	925
Table 1	Ewes	572	339
	Replacement Ewes	0	0
Chan	Rams	0	0
Sheep	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
	Light Broilers	0	0
Chickens	Broilers	10461	6951
Chickens	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
	White Layer Pullets	0	0
	White Layer Hens	18521	17508
	White Breeder Pullets	0	0
	White Breeder Hens	0	0
Layers	Brown Layer Pullets	0	0
	Brown Layer Hens	0	0
	Brown Breeder Pullets	)	0
	Brown Breeder Hens	)	0
	Broiler Turkey (0-9 wks)	374	580
	Hen Turkey (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	)	0
	Toms (0-14 wks)	)	0
Turkeys	Breeding Hen Growers (0-30 wks)	)	0
	Breeding Hens (31-End of Lay)	0	0
	Breeding Tom Grower (0-17 wks)	0	0
	Breeding Tom Grower (17-30 wks)	)	0
	Breeding Tom (31-End of Lay)	1	0
	Total	201064	12338

livestock in the proposed expansion.

	Removal		Uptake		eration nam			Ren	noval	Uptake	
Crop	P205	N	N	Units	Yield	Units	Acreage	P205	N	N	
				A SALAGO	Tield		Acreage	(lb)	(lb)	(lb)	
Alfalfa	13.8	58	58	lb/ton	1.615	ton/ac		-	-		
Barley Grain	0.42	0.97	1.39	lb/bu	89.9	bu/ac	1203	45423	104905	150328	
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac				-	
Canola	1.04	1.93	3.19	lb/bu	38.6	bu/ac	891	35768	66378	109712	
Corn Grain	0.44	0.97	1.53	lb/bu	118.5	bu/ac	320	16685	36782	58018	
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac					
Ory Edible Beans	1.39	4.17		lb/cwt		cwt/ac			-	-	
ababeans	1.79	5.02	8.4	lb/cwt		cwt/ac					
lax	0.65	2.13	2.88	lb/bu		bu/ac					
Grass Hay	10	34.2	34.2	lb/ton		tons/ac		-			
_entils	1.03	3.39	5.08	lb/cwt		cwt/ac					
<b>Dats</b>	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	48.4	bu/ac	469	15663	53117	69461	
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	36.8	bu/ac	1178	36414	167766	225422	
Sunflower	1.1	2.8		lb/cwt		cwt/ac					
Wheat - Spring	0.59	1.5	2.11	lb/bu	63.2	bu/ac	1495	55746	141726	199361	
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac				-	
						Total Acres	5556	205699	570674	812302	
			Estimat	ed Average F	Removal/U	ptake (lb/ac)		37.0	102.7	146.2	
				Acres in Ha	nover and	La Broquerie					
			Pr	oportion in H	lanover or	La Broquerie	0%				
					Add	litional Acres	273				
				Crop Plani	ned on Add	litional Acres	alfalfa/oats	rotation			
					T	otal Acreage	5829				

Last revised December 18, 2017

1a	•	P	ig	S
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Operation Name:					
Operation Type	Storage Type	Volatilization	Animal Numbers	N Excreted Per Herd Adjusted for Storage N Loss	P2O5 Excreted Per Herd Per Year
			(Places)	(lb/yr/herd)	(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%	600	162918	94630

Last Revised February 12, 2020

1e - Poultry Operation Name:										
Species / Commodity	Type of Operation	Storage Type	Volatilization	Bird Places	Weight in	Weight out	Days on Feed	Cycles per Year	N Excreted Adjusted for N Loss lb/flock/yr	P2O5 Excrete
Chickens	Light Broilers	Solid Manure Shed	20%		0.043	1.8	30	7	0	0
Chickens	Broilers	Field Storage	40%	20000	0.043	2.275	35	7	10461	6951
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	Liquid Uncovered Earthen	30%	20000	1.355	1.875	357	1	18521	1750
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)	Field Storage	40%	600	0.070	4.950	63	5	804	580
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%		0.070	9.750	98	3	0	0
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	Q

Last Revised November 26, 2019

1d -Sheep

Operation Name														
Sheep/Operation Type	Storage Type	Volatilization	Animal Numbers	Weight In	Weight Out	Ave Weight	Days on Feed	Cycles per Year	N Excreted per Flock adjusted for Loss	P2O5 Excreted Per Flock				
Ewes	Field Storage	40%	40	120	170	145	365	1	lb/flock/yr	lb/flock/yr				
Replacement Ewes	Field Storage	40%	40	45	80	63	210		572 0	339				
Rams	Field Storage	40%		100	200	150	365	1	0	0				
Lambs	Field Storage	40%		8	45	27	70	1.4	0	0				
Ewes, plus assoc livestock	Field Storage	40%		n/a	n/a	n/a	n/a	n/a	0					
Feeder	Field Storage	40%		45	100	73	365	1 1	0	0				

1c - Dairy Operation Name:					
Туре	Storage Type	Volatilization	Animal Numbers	N Excreted Per Herd Adjusted for Storage N Loss (lb N/yr/herd)	P2O5 Excreted Per Herd Per Year (Ib P2O5/year)
Mature Cows, plus associated livestock	Liquid Uncovered Earthen	30%	6	1871.6	925.2

Last Revised October 18, 2019

1b - Beef Operation Name: Days Place is N Excreted Per Animal Occupied per Herd Adjusted for P205 Excreted Per Weight Out Days per Cycle Cycles per Year Rate of Gain **Operation Type Animal Category** Storage Type Volatilization Numbers Weight In Storage N Loss Herd Per Year (lb P2O5/year) (lb) (lb) (Days) (lb/day) (Ib N/yr/herd) Mature Cows and Bred Heifers, plus Cow Calf Field Storage 40% 44 n/a n/a n/a n/a 5916 2448 n/a associated livestock Feedlot Cattle - long keep Field Storage Feeder 40% 581 1300 240 1.0 3.00 240

975

793

500

1300

975

793

116

105

180

1.0

1.0

1.0

2.80

1.73

1.63

116

105

180

0

0

Field Storage

Field Storage

Field Storage

40%

40%

40%

Last Revised January 21, 2015

Feedlot Cattle - short keep

Backgrounders - pasture

Backgrounders - confined

Feeder

Feeder

Feeder