

4 - Land Base Summary**Operation Name:****Moonfleet Layer Farms****Nutrients Excreted****lbs**

Nitrogen

149663

Phosphorus (P2O5)

121413

Crop Nutrient Use**lb/ac**

Average Crop N Uptake

148.5

Average Crop Phosphorus (P2O5) Removal

36.2

Operation-specific Phosphorus (P2O5) Allowance

72.4

Land Available

1967

Land Base Required**acres**

Acres for Nitrogen

1008

Acres for Phosphorus (P2O5)

1677**Phosphorus Balance****acres**

Acres for Phosphorus Balance (1X)

3355

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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2 - Crop Rotation

Operation Name:

Moonfleet Layer Farms

Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake	
	P2O5	N	P2O5	N				(lb)	N	(lb)	N
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	40	bu/ac	656	27290	50643	83706	
Corn Grain	0.44	0.97	1.53	lb/bu		bu/ac		-	-	-	-
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac		-	-	-	-
Dry Edible Beans	1.39	4.17	8.4	lb/cwt		cwt/ac		-	-	-	-
Fababeans	1.79	5.02	2.88	lb/cwt		cwt/ac		-	-	-	-
Flax	0.65	2.13	34.2	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	35.7	bu/ac	656	19672	90632	121780	
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	62.7	bu/ac	655	24230	61603	86655	
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-	-
Total Acres							1967	71192	202878	292140	
Estimated Average Removal/Uptake (lb/ac)								36.2	103.1	148.5	
Acres in Hanover and La Broquerie											
Proportion in Hanover or La Broquerie							0%				
Additional Acres											
Crop Planned on Additional Acres											
Total Acreage							1967				

***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.

1e - Poultry

Operation Name: **Moonfleet Layer Farms**

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	P205 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%		0.043	2.275	35	7	0	0
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%	66000	0.040	1.355	133	2	22660	16364
Eggs	White Layer Hens	Solid Manure Shed	20%	120000	1.355	1.875	357	1	127003	105049
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%		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	0

Last Revised November 26, 2019

3 - Farm Excretion

Operation Name: Moonfleet Layer Farms

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	0	0
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	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
Layers	White Layer Pullets	22660	16364
	White Layer Hens	127003	105049
	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)	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
Total		149663	121413

Note: Be sure all livestock species on your farm are represented in this table, not just the livestock in the proposed expansion.