

1a - Pigs

Operation Name: Ashwood & Clearview Sow

Operation Type	Storage Type	Volatilization	Animal Numbers (Places)	Average Animal Wt (lb)	N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)	P2O5 Excreted Per Herd Per Year (lb/yr/herd)
Boars (Purchased)	Liquid Uncovered Earthen	30%		465	0	0
Weanlings	Liquid Uncovered Earthen	30%		38	0	0
Growers/Finishers	Liquid Uncovered Earthen	30%	350	171	9068	4480
Sows, farrow to 6.2 kg	Liquid Uncovered Earthen	30%		n/a	0	0
Sows, farrow to 28 kg	Liquid Uncovered Earthen	30%	3200	n/a	193736	127265
Sows, farrow to finish	Liquid Uncovered Earthen	30%		n/a	0	0

Last Revised April 26, 2018

Clearview and Ashwood are on separate conditional use permits, however they share land base. Land use data has been combined for the assessment to demonstrate there is sufficient land for both operations.

2 - Crop Rotation

Operation Name:

Ashwood & Clearview Sow

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		bu/ac		-	-	-
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac		-	-	-
Canola	1.04	1.93	3.19	lb/bu	40.8	bu/ac	520	22065	40947	67679
Corn Grain	0.44	0.97	1.53	lb/bu	130.1	bu/ac	300	17173	37859	59716
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	39.8	bu/ac	520	17385	80094	107619
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	55.4	bu/ac	524	17127	43544	61252
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-

Total Acres 1864 73750 202444 296267

Estimated Average Removal/Uptake (lb/ac) 39.6 108.6 158.9

Acres in Hanover and La Broquerie 0

Proportion in Hanover or La Broquerie 0%

Additional Acres

Crop Planned on Additional Acres

Total Acreage 1864

***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: **Ashwood & Clearview Sow**

Species	Animal Category/Operation type	N (lb/year)	P2O5 (lb/year)
Pigs	Boars	0	0
	Weanlings	0	0
	Growers/finishers	9068	4480
	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	193736	127265
	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	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	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
Layers	Layer Pullets	0	0
	Layer Hens	0	0
	Breeder Pullets	0	0
	Breeder Hens	0	0
Turkeys	Broiler Hens (0-9 wks)	0	0
	Hens (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	0	0
	Light Toms (0-12 wks)	0	0
	Toms (0-13 wks)	0	0
	Heavy Toms (0-15 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (30-60 wks)	0	0
	Breeding Tom Grower (0-18 wks)	0	0
	Breeding Tom Grower (0-30 wks)	0	0
Breeding Tom (30-60 wks)	0	0	
Total		202805	131745

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:** Ashwood & Clearview Sow

Nutrients Excreted	lbs
Nitrogen	202805
Phosphorus (P2O5)	131745
Crop Nutrient Use	
	lb/ac
Crop N Uptake	158.9
Crop Phosphorus (P2O5) Removal	39.6
Operation-specific Phosphorus (P2O5) Credit	79.1
Land Available	
	1864
Land Base Required	
	acres
Acres for Nitrogen	1276
Acres for Phosphorus (P2O5)	1665
Phosphorus Balance	
	acres
Acres for Phosphorus Balance (1X)	3330

Last revised October 16, 2018