1b - Beef												
Operation Name:	Gall											
Operation Type	Animal Category	Storage Type	Volatilization	Animal Numbers	Weight In (lb)	Weight Out (lb)	Average Animal Wt (lb)	Days per Cycle (Days)	Cycles per Year	Rate of Gain (lb/day)	Days Place is Occupied per Year (days)	
Cow Calf	Mature Cows (>2 years old)	Field Storage	40%	470	1375	1375	1375	210	1.0		210	10637
Cow Calf	Bred Heifer (19 mo - >2 years)	Field Storage	40%	80	1150	1375	1263	210	1.0	1.48	210	1903
Cow Calf	Replacement Heifers (7 mo-14 mo)	Field Storage	40%	80	581	926	754	210	1.0	1.64	210	1146
Cow Calf	Unweaned Calves (0-2 mo)	Field Storage	40%	500	86	200	143	45	1.0	2.53	45	3168
Cow Calf	Bulls	Field Storage	40%	25	2100	2200	2150	210	1.0		210	1187
Cow Calf	Mature Cows and Bred Heifers, plus associated livestock	Field Storage	40%		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0
Feeder	Feedlot Cattle - long keep	Field Storage	40%		581	1300	941	240	1.0	3.00	240	0
Feeder	Feedlot Cattle - short keep	Field Storage	40%		975	1300	1138	116	1.0	2.80	116	0
Feeder	Backgrounders - pasture	Field Storage	40%		793	975	884	105	1.0	1.73	105	0
Feeder	Backgrounders - confined	Field Storage	40%	430	500	793	647	180	1.0	1.63	180	5686

Last Revised January 21, 2015

Note: 40% volatilization was used as manure from pens and confined area is pushed up in spring and hauled/spread in fall. There is another quarter of land (Fields 4 and 5 -113 acres where cattle are kept during the winter) on this area I also used 40% volatilization as manure is not incorporated over the winter time frame. Also all cattle are moved about 35 miles away onto about 5000 acres of leased crown pasture land from June 1 to October 31. Therefore the cattle numbers and "Days per Cycle" only reflect the Nov 1 to May 31 period. As this land area is all pasture no mechanical spreading will occur on this land and therefore not included in the tables and maps.

2 - Crop Rotation										
Operation Name:			11		Ga	II				11.4.1
	Remo		Uptake		20.11			Removal		Uptake
Crop	P2O5	N	N	Units	Yield	Units	Acreage	P2O5	N	N
AIC-IC-	42.0	F0	F.0	11s /b s .s	2.500	t /	202	(lb)	(lb)	(lb)
Alfalfa	13.8	58	58	lb/ton	2.508	ton/ac	382	13221	55567	55567
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		bu/ac		-	-	-
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		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	1.376319	tons/ac	467	6427	21982	21982
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac		-	-	-
Oats	0.26	0.62	1.07	lb/bu	78.8	bu/ac	80	1639	3908	6745
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac	62	310	1060	1060
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		bu/ac		-	-	-
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu		bu/ac		-	-	-
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-
						Total Acres	991	21598	82518	85354
Estimated Average Removal/Uptake (lb/ac)								21.8	83.3	86.1
Acres in Hanover and La Broquerie										
Proportion in Hanover or La Broquerie										
Additional Acres Crop Planned on Additional Acres										
Total Acreage 991										
*NI=+==	Enter the nun	nber of acre	es that are i	n the RM's o	of Hanover o	r La Broque	rie in cell H2	6.		
*Notes:	Additional acr	es include	acres for wh	hich crop re	moval or soil	l data is limi	ted or unava	ilable.		

3 - Farm Excretion

Operation Name: Gall

Operation Name:	Gall								
Species	Animal Category/Operation type	N (lb/year)	P2O5						
	Boars	(lb/year)	(lb/year)						
		0	0						
	Weanlings Growers/finishers								
Pigs	Sows, farrow to 5 kg	0	0						
	Sows, farrow to 3 kg	0	0						
	Sows, farrow to 25 kg	0	0						
	Mature Cows (>2 years old)	27346	10637						
	Bred Heifer (14 mo - 2 years)	4708	1903						
	Replacement Heifers (7 mo-14 mo)	2918	1146						
	Unweaned Calves (0-7 mo)	4872	3168						
	Bulls	2671	1187						
Beef	Mature Cows and Bred Heifers, plus associated livestock	0	0						
	Feedlot Cattle - long keep	0	0						
	Feedlot Cattle - long keep	0	0						
	Backgrounders - pasture	0	0						
	Backgrounders - confined	12332	5686						
Dairy	Mature Cows, plus assoc livestock	0	0						
Daily	Ewes	0	0						
	Replacement Ewes	0	0						
	Rams	0	0						
Sheep	Lambs	0	0						
	Ewes, plus assoc livestock	0	0						
	Feeder	0	0						
	Broilers	0	0						
Chickens	Broiler Breeder Pullets	0	0						
Cilickeris	Broiler Breeder Hens	0	0						
	Layer Pullets	0	0						
	Layer Hens	0	0						
Layers	Breeder Pullets	0	0						
	Breeder Hens	0	0						
	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						
Turkeys	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		23726						

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:	Gall				
Nutrients Excreted	lbs				
Nitrogen	54847				
Phosphorus (P2O5)	23726				
Crop Nutrient Use	lb/ac				
Crop N Uptake	86.1				
Crop Phosphorus (P2O5) Removal	21.8				
Operation-specific Phosphorus (P2O5) Credit	43.6				
Land Available	991				
Land Base Required	acres				
Acres for Nitrogen	637				
Acres for Phosphorus (P2O5)	544				
Phosphorus Balance	acres				
Acres for Phosphorus Balance (1X)	1089				

Last revised October 16, 2018