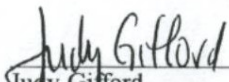


Phosphorus (P not P₂O₅) Balance

	Total for farm	
	Tons P /yr	Lbs P per ac
Phosphorus Inputs	1.6	58.2
Imported Feed	1.6	56.8
Imported Bedding	0.0	1.4
Imported Animals	0.0	0.0
Imported Fertilizer	0.0	0.0
Phosphorus Outputs	1.1	38.8
Animal Products	0.6	23.0
Cash Crops	0.0	0.0
Manure/Compost	0.4	15.8
Balance (Potential Loss)	0.5	19.5
Other P Flows		
Manure P Produced (animal intake - prod)	1.8	64.1
Manure P Measured (using manure analysis)	1.8	64.1
Manure P Applied (Stored - Export +Import)	1.3	48.3
Manure P Avail to Crop (Applied -Field loss)	1.3	45.8
Total P Eventually Avail to Crop (manure & fertilizer)	1.3	45.8
Crop P	0.8	28.8
Total Feed P	2.4	85.6

The economics of maintaining a low phosphorus accumulation by exporting manure and importing the nitrogen lost in the exported manure are significant. In this project the cost to have commercial haulers export all manure from a herd milking 60 cows was \$2, 841 and the cost of imported nitrogen was \$3,338. If manure produced on the farm had been utilized on the farm to provide needs much of these costs would have been eliminated.

Future plans, in accordance with our comprehensive nutrient management plan, and the results of this On-Farm Demonstration are to continue to export 100 % of the store manure from St. Brigid's Farm. Also in future years plan will be to lower nitrogen accumulation that will minimize potential runoff issues and volatilization of nitrogen as ammonia into the atmosphere.



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