

Updated: April 23, 2010

		How we know we have succeeded?		
EXTENSION TOPIC: FEED MANAGEMENT	DELIVERABLES - SWINE	DELIVERABLES - DAIRY	TIMEFRAME	PROGRESS TO DATE
Implement an extension and adaptation program to manage P in livestock diets. Particular emphasis is to be placed on:				
i) Using of tools for evaluating feed P on farm - nutrient excretion model	Nutrient Excretion Model, On Farm Assessment of P balance and P reduction strategies, P Balance Fact Sheet		On Farm Assessment - On going	<u>Excretion Model</u> - Complete, <u>P- Balance Fact Sheet</u> - Complete
ii) Understanding total P vs. available P in the formulation of diets - target feeding (precision feeding) higher producing animals	<u>Fact Sheet A</u> - Methods to reduce TP in diets, phytase, steeping, liq feeding alternative feeding methods.	<u>Fact Sheet A</u> - target feeding - Free and Tie Stall Strategies	Fact Sheets April 2011	<u>ASI Project</u> - data from pig feed survey- producers are being contacted if % P not in acceptable range
iii) Reducing Feed wastage - encourage feed testing to improve efficiency reduce wastage, in barn management and calibration of on farm feed mills	<u>ASI Report</u> %P in pig diets (on farm mixing)	<u>Fact Sheet B</u> - cost benefit in reducing wastage (75-100 lbs/day) - example software such as Feed Watch	Reducing Feed Waste Fact Sheet April 2011	<u>Presentation</u> - P Management strategies that benefit Dairy Farms
iv) Extending the economic benefit (reduction in land requirements) of managing P intake based on P requirements for maintenance and growth.	<u>Fact Sheet B</u> - economic benefits of reducing P in diets, maintenance and growth, and land base requirements. <u>Presentation</u> - managing feed and cop to reduce landbase requirements for manure.	<u>Fact Sheet C</u> - comparing no DDG diet vs. whole herd fed DDG vs. target feeding using excretion model to show land reduction	Fact Sheets April 2011	<u>Presentation</u> - Excretion Model, has been delivered to Pork Commodity groups.
v) Managing P in feed to help meet environmental regulatory requirements. Using feeding strategies to bring N:P in manure closer to crop requirements - to achieve on farm balance, nutritionist work with manure manager to decrease P in manure	Nutrient Excretion Model, On Farm Assessment of P balance and P reduction strategies, P Balance Fact Sheet		On Farm Assessment - On going	<u>Excretion Model</u> - Complete, <u>P- Balance Fact Sheet</u> - Complete
EXTENSION TOPIC: MANURE TREATMENT	DELIVERABLES		TIMEFRAME	PROGRESS TO DATE
i) On-site extension/demonstration/tech transfer/applied investigation component for treatment technologies.	Once research/ Lit review complete demonstrations/extension/tech transfer will be presented <u>ASI Demonstration</u> of applying flocculants to settling tank for P Centrifuge demonstration <u>Fact Sheet</u> on manure separation - "Questions to ask yourself"		<u>Phase 2 of ASI project</u> flocculants added to settling tank - April 2011	<u>Phase 1 of ASI project</u> settling tank without flocculants <u>Centrifuge (Quebec)</u> demonstration complete
ii) Uniform and known nutrient content of applied manure by encouraging on-farm nutrient testing and appropriate agitation and application technologies.	<u>Fact Sheet</u> - Incorporate S. Dick MLMMI study into agitation variability and manage land accordingly		Fact Sheets April 2011	Manure Land Applicators Course and MMP Course

EXTENSION TOPIC: FIELD MANAGEMENT	DELIVERABLES/ACTIVITIES	TIMEFRAME	PROGRESS TO DATE
i) Encourage and facilitate the formation of local, producer-based "manure management groups" for the purposes of:			
> training and information exchange between group members.	Explore possibility of creating High Yield clubs like Corn Producers (Crop producers) to convince producers manure can increase yields	Fall 2010	
ii) Create manure/compost databank (similar to hay listing) - producers wanting manure can potentially find sources in their areas and make contact	Explore and Assess possibilities within the regulations to export manure eg Alberta, Wisconsin, Pennsylvania Manure Trader, - viability for producers in the heart of La B and Hanover	Fall 2010	
iii) Encourage nutrient management planning for all producers (not only those required by regulation) - increase knowledge of importance of planning and value of manure as well as the cost of not managing nutrients intensively and balancing manure and commercial fertilizers for specific crop needs (e.g. workshops for small operators)	Higher provincial priority for nutrient management (BMP), <u>Soils and Manure field clinic</u> - GRS and JRI	<u>Soils and Manure Field day</u> - July 23/2010	
iv) Promote the inclusion of high P removal crops not already in the rotation - must make economic sense	Use La Broquerie Project as example luxury uptake and increased yields and sell of farm		
v) Promote better understanding by producers of phosphorus transport, for example the roles of precipitation and runoff events, forms of P (available and total, dissolved and particulate), soil erosion, riparian management	Explore the traveling P - runoff road show with a traveling rainfall simulator - display frozen soils, winter manure application, residue no residue	Test run July 23/2010	
vi) Encourage the creation of a manure applicators association that will facilitate enhanced training of applicators (note: course for applicators is already available for licensed and off farm applicators doesn't capture on-farm applicators)	Fact Sheet - sampling protocols	Fact Sheet - Fall 2010	