

**1999-2003 RESEARCH PROJECTS  
PROGRESS REPORTS @ August 2003**

**ALBERTA RESEARCH COUNCIL UNIVERSITY OF ALBERTA**

**DEVELOPMENT OF ARTIFICIAL SWINE ODOUR (ASO)**

Sask Pork Project #2002-06

Dr. Guoliang Qu, Ph.D., P.Eng., Alberta Research Council, Vegreville, Alta.

Dr. John Feddes, Ph.D., P.Eng., P.Ag., University of Alberta

Progress Reports: January 20, 2003

**ALBERTA AGRICULTURE, FOOD & RURAL DEVELOPMENT**

**COMMUNITY ODOUR MONITORING USING LOCAL RESIDENT OBSERVERS**

Sask Pork Project # 2002-03

Dr. Huiqing Guo, Dr. John Feddes, Ph.D., P.Eng., University of Alberta

Progress Reports: July 2003

**FEEDING THE GESTATING SOW**

Dr. Frank Aherne (Retired)

Alberta Agriculture, Food and Rural Development

Animal Industry

6909-116<sup>th</sup> St. O.S. Longman Building

Edmonton, Alberta

Progress Report: August 1999 – FINAL REPORT

**CETAC – WEST**

**MANURE MANAGEMENT MODEL (MMM) ADD-IN FOR PORKPLAN FOR USE IN  
THE HOG INDUSTRY - December 1996**

Progress Reports: December 1999 – FINAL REPORT

**PRAIRIE AGRICULTURAL MACHINERY INSTITUTE**

**SWINE MANURE TANKER TRUCK INJECTOR FOR MANURE RESEARCH AND  
DEMONSTRATION**

1999-2000

Wayne Stock, Gordon Hultgreen, Philip Leduc, James Wasserman

Progress Report: March 2000 - FINAL REPORT

## **QUADRA GROUP**

### **FEASIBILITY OF RENOVATING EXISTING FACILITIES TO ACCOMMODATE LARGE GROUP MANAGEMENT FOR GROW/FINISH PIGS**

Sask Pork Project #2001-13

Progress Report: January 2003 - FINAL REPORT

### **MANURE GENERATION STUDY**

Sask Pork Project: 2000-03

Progress Report: April 10, 2001

## **UNIVERSITY OF ALBERTA**

### **OPTIMIZING SPLIT WEANING PROTOCOLS FOR IMPROVED SOW FERTILITY**

Sask Pork Project #2002-01

Dr. George Foxcroft, U of A & Dr. Eduardo Beltranena (Prairie Swine Centre Inc.)

Progress Reports: April 23, 2003

### **REDUCTION OF ODOUR/GAS EMISSIONS FROM PIG GROWER/FINISHER BARN AND MANURE STORAGE FACILITIES**

Dr. J. R. Feddes, S. Lemay, H. Gonyou, et al

Department of Agricultural, Food and Nutrition Science;

Prairie Swine Centre, Alberta Research Council

Progress Report: December 2001 - FINAL REPORT

## **PRAIRIE SWINE CENTRE INC.**

### **ENGINEERING CONTROLS FOR REDUCING H<sub>2</sub>S EXPOSURE OF WORKERS IN SWINE BUILDINGS**

Sask Pork Project #2002-02

Stephane Lemay, PSCI

Progress Reports: April 2, 2003

### **HYDROGEN SULPHIDE RISKS ASSESSMENT FOR THE SASKATCHEWAN SWINE INDUSTRY**

Sask Pork Project #2001-07

Dr. Stephane Lemay

Progress Reports: July 4, 2002 - FINAL REPORT

**THE EFFECT OF AGE AT FIRST ESTRUS (PUBERTY) ON MATURE BODY SIZE AND LONG TERM REPRODUCTION PERFORMANCE OF SOWS**

Sask Pork Project # 2001-04

Dr. Eduardo Beltranena and Jennifer Patterson

Progress Reports:     May 1, 2002  
                           September 9, 2002  
                           April 30, 2003

**ENVIRONMENTAL ISSUES RESOURCE CENTRE**

Prairie Swine Centre Inc. (1999-2001)

Lee Whittington, Manager Information Services

Progress Reports:     December 31, 1999

Partnership program with Alberta Pork, Sask Pork, Ontario Pork and Manitoba Pork Council  
(Project originally funded under HEMS, then LEI).

Renewed in May 2002

**MINIMIZING THE IMPACT OF PORK PRODUCTION (GROWOUT PHASE) ON NATURAL WATER RESOURCES**

AAFC File: 215597-98 – Research

Harold W. Gonyou, Stephane Lemay, John F. Patience

Interim Report:       July 15, 2000

Final Report:         August 31, 2002       (Electronic Copy Available)

**FEEDING AND MANAGEMENT SYSTEMS TO MINIMIZE THE ENVIRONMENTAL IMPACT OF THE SWINE INDUSTRY: *Optimization of Ingredient and Nutrient Utilization***

Ruurd Zijlstra and John F. Patience

Progress Report: December 15, 1999 (Received at Sask Pork June 2000)

**IMPACT OF NURSERY FEEDER ADJUSTMENT AND SPACE ALLOWANCE ON PERFORMANCE OF PIGS FROM 3 TO 10 WEEKS OF AGE**

L. Smith, J.F. Patience, H.W. Gonyou, and R.D. Boyd

Progress Reports:     January 31, 2002

**UNIVERSITY OF MONTREAL**

**CANADIAN RESEARCH NETWORK ON BACTERIAL PATHOGENS OF SWINE**

1999 - 2002

Mario Jacques, Ph.D.

Annual Report:       Period April 1, 2000 – March 31, 2001

Progress Report:     July 2002

**UNIVERSITY OF SASKATCHEWAN**

**DEVELOPMENT OF SYNTHETIC EXTENDERS FOR CRYOPRESERVATION OF BOAR AND BULL SEMEN**

Sask Pork Project #2001-18

Andre T. Palasz, B.Sc., M.Sc., Ph.D.

Western College of Veterinary Medicine

Progress Reports: December 29, 2002  
May 5, 2003

**MONITORING LONG TERM EFFECTS OF REPEATED SWINE MANURE APPLICATION ON CROP PRODUCTION**

Sask Pork Project #2001-10

Dr. Jeff Schoenau

Progress Reports: January 22, 2003  
July 2003

**GEOCHEMISTRY AND HYDROGEOLOGY NEAR EARTHEN MANURE STORAGEES**

Sask Pork Project #2001-06

Terry Fonstad

Department of Agriculture and Bioresource Engineering, University of Saskatchewan

Progress Reports: February 26, 2003

**IMPACT OF SWINE MANURE ADDITIONS ON SOIL METALS AND THEIR INTERACTION WITH ORGANIC MATTER**

Sask Pork Project #2001-02

Dr. Jeff Schoenau

Progress Reports: April 3, 2002  
November 18, 2002 - FINAL REPORT

**GREENHOUSE GAS AND ODOUR EMISSIONS FROM SWINE OPERATIONS IN QUEBEC AND SASKATCHEWAN: BENCHMARK ASSESSMENTS**

Sask Pork Project #2000-14

Dr. Claude Lague & Terry Fonstad

Progress Reports: March 7, 2002

**MANURE AS A SUSTAINABLE SOURCE OF PLANT NUTRIENTS**

Sask Pork Project #2000-09

Dr. Jeff Schoenau, Dept. Soil Science, University of Saskatchewan

Progress Reports: June 13, 2001  
December 19, 2001  
January 14, 2003 – FINAL REPORT

**LONGER TERM EFFECTS OF LIQUID SWINE EFFLUENT ON SOIL PHYSICAL PROPERTIES**

Sask Pork Project #2000-08

Dr. Mike Grevers, U of S, Dr. Jeff Schoenau, B. A. Assefa

Progress Reports: June 25, 2001  
December 24, 2002 – FINAL REPORT

**INFLUENCE OF HOG MANURE APPLICATION ON WATER QUALITY AND SOIL PRODUCTIVITY**

1999-2003

Dr. Charles Maule

Progress Reports: December 2000  
January 31, 2002

**SASK PORK RESEARCH CHAIR IN ENVIRONMENTAL ENGINEERING FOR THE PORK INDUSTRY**

Dr. Claude Lague

Progress Reports: January – April 2000  
May – August 2000  
May – August 2001  
September – December 2000  
January – April 2002  
May – August 2002  
September-December 2002  
January – April 2003

**INVESTIGATION OF IMMUNOGLOBULIN – INDEPENDENT ANTIMICROBIAL SUBSTANCES IN PORCINE MILK AND COLOSTRUM**

Sask Pork Project: 1999-2002

Dr. Elemir Simko, University of Saskatchewan

Progress Reports: May 10, 2001  
June 6, 2001  
September 11, 2002  
April 1, 2003 – FINAL REPORT

**LONG TERM EFFECT OF REPEATED HOG MANURE APPLICATIONS ON POORLY DRAINED SOILS**

1997-2000

Dr. Mike Grevers

Progress Reports: March 27, 2000

**MAXIMIZING THE ECONOMIC AND ENVIRONMENTAL BENEFIT LAND  
APPLICATION OF ANIMAL MANURE (4 Year Case Study in East Central Saskatchewan)**  
(Effect of Repeated Hog and Cattle Manure Application on Soil Quality in East Central  
Saskatchewan)

Dr. Jeff Schoenau

Preliminary Final Report: March 12, 2001

Progress Reports: March 23, 2001 – FINAL REPORT

**VETERINARY INFECTIOUS DISEASE ORGANIZATION (VIDO)**

**RENOVATION TO INCREASE SWINE DISEASE RESEARCH AT VIDO**

Sask Pork Project #2002-10

Philip Willson

Progress Reports: PROJECT COMPLETED

**VIDO CORE FUNDING**

Sask Pork Project #2001-12

Stuart Bond

Progress Reports: April 4, 2003

**AIRBORNE ENDOTOXIN AND MICROBIAL DNA OUTSIDE A SWINE BARN**

Sask Pork Project #2000-02

Jayda Cleave, Laura Ingram, Dr. P.J. Willson and E. Barber

Preliminary Report: March 23, 2001

2<sup>nd</sup> Progress Report: February 7, 2002 (Electronic Version available)  
October 10, 2002 (Electronic Version available) – FINAL REPORT

**CONTROL OF SWINE DISEASE BY USING NEEDLE FREE VACCINATION**

1999-2001

Dr. Philip Willson, Dr. Maria Baca-Estrada

Progress Reports: August 21, 2001  
July 2002 – FINAL REPORT

**DEVELOPMENT OF SUBUNIT STREPTOCOCCUS SUIS VACCINES**

Veterinary Infectious Disease Organization (VIDO) - Dr. Philip Wilson

(Partnership with U of S, Alberta Pork, Ontario Pork, Manitoba Pork and SPI Marketing Group)

Progress Report: June 23, 2000 - FINAL REPORT

To request copies of research progress reports please contact:

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