

Western Canadian Feed Innovation
Network (WCFIN)

WCFIN Feed Research Infrastructure Inventory



May 2011

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Manitoba

Canadian Grain Commission – Vomitoxin (DON) testing

Type of Resource: Federal Government

Access: Fee for service

Location: Winnipeg, Manitoba

Description:

The Canadian Grain Commission (CGC) is a federal government agency that certifies the quality, safety and weight of Canadian grain delivered to domestic and export markets.

The CGC offers a DON testing service in Winnipeg, Manitoba and Chatham, Ontario. Samples may be mailed or delivered in person.

Type of Research:

- Vomitoxin (DON) testing on grain
- The CGC also grades samples with fusarium-damaged kernels. This service is available at all CGC service centres.

Available Infrastructure:

- Laboratory facilities

Special Features:

- The CGC is the regulator of Canada's grain handling industry, the official certifier of Canadian grain, and Canada's scientific research organization on grain quality.

Staff Size:

Key Contact: 1-800-853-6705

Website: <http://www.grainscanada.gc.ca/services-services/fees-droits/don-eng.htm>

Last updated: February 21, 2011

Central Testing Laboratory

Type of Resource: Service Provider

Access: Fee for service

Location: Winnipeg, Manitoba

Description:

Central Testing Laboratory is an independently-owned laboratory specializing in analytical chemistry services. The laboratory provides services for animal feed and pet food manufacturers, food products and ingredient businesses, the environmental industry, technical professionals and a variety of specialty producers.

Type of Research:

- Full range of analytical chemistry services
- Feed analysis and mould identification

Available Infrastructure:

- Facilities in Winnipeg, Manitoba and Nisku, Alberta

Special Features:

- CTL provides a rapid one-hour vomitoxin screening service under the new FIELD CHECK program
- Extensive quality control program, including the use of reference materials, standard controls and blank analyses

Staff Size: ~ 8

Key Contact: Dr. Harold Thiessen, President, 204-237-9128/877-955-7861

Website: <http://www.ctl.mb.ca>

Last updated: February 21, 2011

University of Manitoba: Agricultural By-Products Processing Research & Demonstration Facility

Type of Resource: Public University

Location: Highway 75, 20 km south of University of Manitoba Fort Garry campus, Winnipeg

Description:

The Agricultural By-Products Processing Research and Demonstration Facility complement existing equipment and facilities used by the National Centre for Livestock and the Environment and its partners. The facility enables on-farm processing and use of liquid and solid agricultural by-products from livestock production, such as manure and mortalities, as well as from fibre and biofuel processing, thereby adding value to materials that are otherwise viewed as "waste."

Type of research:

- Adding value to by-product and co-product streams from livestock operations

Available Infrastructure:

- Equipment for processing and handling liquid and solid biomass, including solid/liquid separation and solids composting; on-site greenhouse gas and environmental monitoring equipment; as well as open-air and controlled-environment research and demonstration/training sites

Special Features:

- Part of the [National Center for Livestock and the Environment \(NCLE\)](#)

Staff Size: 7

Key Contact: Dr. Don Flaten (204) 474-6257, Don_Flaten@umanitoba.ca

Website: http://www.umanitoba.ca/afs/ncle/By-products_facility_background.pdf

Last updated: February 19, 2011

University of Manitoba: Glenlea Research Station (Feed Processing Research Facility)

Type of Resource: Public University

Location: Highway 75, 20 km south of University of Manitoba Fort Garry campus, Winnipeg

Description:

This feed processing research facility supports the research activities of the Glenlea Research Station.

Type of research:

- Investigation of pilot-scale feed processing technologies

Available Infrastructure:

- Capacity for custom on-site blending of feedstuffs, precision feed formulation and mixing, small batch preparation for research diets, mash or pelleted commercial rations.
- Equipment includes mixing capacity based on one tonne vertical mixer, hammer and roller mills with space for pilot scale feed processing technologies e.g. de-hulling and pearling machine.

Special Features:

- Part of the [National Center for Livestock and the Environment \(NCLE\)](#)

Staff Size:

Key Contact: Dr. Laurie Connor, Director (204) 883-2649, mconnor@cc.umanitoba.ca

Website: <http://www.umanitoba.ca/afs/ncle/ResearchCapabilities.html>

Last updated: February 21, 2011

University of Winnipeg: Glenlea Research Station (Ruminant Research Units)

Type of Resource: Public University

Location: Highway 75, 20 km south of University of Manitoba Fort Garry campus, Winnipeg

Description:

The ruminant research units at the Glenlea Research Station support teaching and research programs in nutrition, physiology, and metabolism in dairy and beef production.

The dairy research unit is a popular facility for students interested in acquiring hands-on experience with large animals and experience in a dairy production system.

Type of research:

- Ruminant nutrition, physiology, and metabolism in dairy and beef cattle.
- Dairy herd genetics, focusing on milk and protein production.

Available Infrastructure:

- Tie-stall accommodations for 68 cows, a heifer facility with group pens, and 30 individual calf pens.
- Two open-shed feedlot barns, each with 18 pens, are used for beef research in environmental and growth physiology and nutrition.
- Capacity for diverse forage handling systems to support forage harvest, storage, and feeding trials.

Special Features:

- The dairy herd was established in 1940 and received "Managra" as the herd prefix.
- Part of the [National Center for Livestock and the Environment \(NCLE\)](#)

Staff size: 5

Key Contact: Dr. Laurie Connor, Director (204) 883-2649, mconnor@cc.umanitoba.ca

Website: http://www.umanitoba.ca/afs/animal_science/facilities/ruminant_unit.htm

Last updated: February 17, 2011

University of Manitoba: Glenlea Research Station (Swine Research Unit)

Type of Resource: Public University

Location: Highway 75, 20 km south of University of Manitoba Fort Garry campus, Winnipeg

Description:

The Glenlea swine research unit was built as part of the infrastructure for the [National Center for Livestock and the Environment \(NCLE\)](#) in 2005-06. NCLE is a University of Manitoba-based research community that engages in multidisciplinary, multi-agency research partnerships to further long term economic and environmental sustainability of integrated livestock and crop production systems. The swine research unit focuses on research, teaching, and work experience that is current and relevant to the commercial pork production industry.

Type of research:

- Economic and environmental sustainability of swine production
- Nutrient use, reproduction, animal environment and housing, behaviour and welfare
- Swine manure management and handling systems (liquid slurry vs. solid manure)
- Cycling of nutrients and microbes through the farm ecosystem

Available Infrastructure:

- Two 130-sow farrow-to-finish production units and an off-site AIAO (all-in-all-out) research barn

Special Features:

- The conventional barn operation is based on a liquid/slurry manure system with pigs housed on total or partially slatted concrete floors representative of the majority of current commercial pig housing.
- The alternative barn operates on a solid manure system for breeding-gestation and grow-finish phases of production.
- Management and pig genetics in each barn are identical, for meaningful comparisons of the housing systems.

Staff Size: 8

Key Contact: Dr. Laurie Connor, Director (204) 223-5445, mconnor@cc.umanitoba.ca

Website: http://www.umanitoba.ca/afs/animal_science/facilities/swine_unit_updated.htm

Last updated: February 17, 2011

University of Manitoba: Manure Management

Type of Resource: Public University

Location: University of Manitoba (various off campus locations)

Description:

Manure processing, handling, and storage research at the University of Manitoba includes facilities at the Glenlea Research Station, which is the core farm and field research station for the National Centre for Livestock and the Environment. Major projects exist at the La Broquerie Research site and Ian N. Morrison Research Station.

Type of research:

- Manure handling, treating, and processing
- Use of manure for soil enrichment.
- Environmental impact of livestock manure handling and application.

Available Infrastructure:

Glenlea:

- about 20 km south of University of Manitoba Fort Garry Campus
- covered earthen storages for liquid manure, covered storage for solid manure, concrete manure handling pad
- Solid manure spreader, liquid manure tank with digital flow metres, GPS tracking and electronic load cells for calibration, injection toolbar for subsurface placement of liquid manure.
- Stainless steel sealed storage units and anaerobic digesters in a passively heated greenhouse.

La Broquerie:

- Research and demonstration site exploring impact of hog manure on forage yield and quality, beef cattle performance, soil and water quality as well as greenhouse gas production. Looks at the economics of the whole system.
- Ian N. Morrison Research Station:
- 460 acres located 70 km southwest of Winnipeg near Carman.

- Wet lab, seed lab and cleaning equipment
- Computer facilities, classrooms for teaching and extension.
- Full line of small plot field equipment.

Special Features:

- Part of the [National Center for Livestock and the Environment \(NCLE\)](#)

Staff Size:

Key Contact: Dr. Laurie Connor, Director, (204) 883-2649, mconnor@cc.umanitoba.ca

Website: <http://www.umanitoba.ca/afs/ncle/ResearchCapabilities.html>

Last updated: February 21, 2011

University of Manitoba: National Centre for Livestock and the Environment

Type of Resource: Public University

Location: Highway 75, 20 km South of the University of Manitoba Fort Gary Campus, Winnipeg

Description:

The National Centre for Livestock and the Environment (NCLE) is a University of Manitoba based research community engaging in multi-disciplinary, multi-agency research partnerships to further the long term economic and environmental sustainability of integrated livestock and crop production systems.

NCLE supports the quality of and capacity for research, drawing on the extensive expertise of a diverse team combined with state-of-the-art facilities, equipment and multiple research locations. Expertise is available in virtually every discipline important to sustainable agriculture.

Type of research:

- Virtually every discipline important to sustainable agriculture, i.e. comprehensive systems-level integrated livestock and crop production research.
- Examples include soil, air and water quality and health, animal health and welfare, food and feed safety, as well as animal housing, feeding systems, cropping systems, manure handling and processing and manure use as fertilizer in this context.

Available Infrastructure:

- Extensive facilities, equipment and land base to support fundamental and applied research on environmental, economic, and social issues related to intensive livestock production.

Special Features:

- Capability to test opportunities and limits of increased nutrient recycling through novel cropping and feed-processing strategies
- Capability to operate as a “closed loop system,” producing crops to feed livestock and using the animal manure to provide nutrients for the crops. For the first time in Canada, researchers can study ecological interactions and the effects of management practices in a total production system
- A long term archive of soil, plant, water and manure samples reflective of integrated systems management

Staff Size:

Key Contact: Dr. Don Flaten (204) 474-6257, Don_Flaten@umanitoba.ca

Website: <http://www.umanitoba.ca/afs/ncle>

Last updated: February 17, 2011

University of Manitoba: Poultry Research Unit

Type of Resource: Public University

Location: University of Manitoba Fort Garry campus

Description:

The poultry research farm was constructed in 1976 and replaced two barns which were located on the current premises of the Freshwater Institute. The facility is operated by the department of animal science with financial support from Manitoba Agriculture and the University of Manitoba.

Type of research:

- Poultry nutrition and metabolism

Available Infrastructure:

Two barns:

- Poultry House No. 1: a broiler facility divided into equal halves of 32 floor pens each. Each floor pen can house 60 to 80 young broilers with a maximum of 2,560 birds per barn side.
- Poultry House No. 2: this barn houses 4,200 laying hens in cages (conventional and enriched cages) and a small breeding flock (135 hens and 12 roosters) for the supply of fertile eggs for research.

Special Features:

- Part of the [National Center for Livestock and the Environment \(NCLE\)](#)

Staff Size: 4

Key Contact: Dr. J.C. Rodriguez-Lecompte Glenlea Director (204) 297-7217, jc_rodriguez-lecompte@umanitoba.ca

Website: http://www.umanitoba.ca/afs/animal_science/facilities/poultry_unit_updated.htm

Last updated: February 17, 2011



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Saskatchewan

BDS Laboratories

Type of Resource: Service provider

Access: Fee for service

Location: Qu'Appelle, Saskatchewan

Description:

BDS Laboratories offers a range of analytical services, including client-specific or specialized analysis.

Type of Research:

- Testing: microbial, toxins, biochemical and chemical
- Yeast and mould testing, fecal coliforms, Salmonella, S. aureus and more

Available Infrastructure:

- Laboratory – analytical and testing services

Special Features:

- Accredited by the American Association for Laboratory Accreditation (A2LA) for biological, food microbiology and food chemistry.
- Accredited by Agriculture Canada (CFIA) for environmental, food, meat, dairy, feed and egg microbiology, and food chemistry.

Staff Size:

Key Contact: Sheila Blachford, Manager of Microbiology, 888-BDS-Labs,
bds.laboratories@sasktel.net

Website: <http://www.bdslabs.com>

Last updated: February 20, 2011

Cattle Care Vet Consulting

Type of Resource: Service provider

Access: Fee for service

Location: Swift Current, Saskatchewan

Description:

Cattle Care Vet Consulting is a service-oriented supply company to the dairy, hog, beef and sheep industries. The company began as a veterinary service owned by Ted and Darlene Dupmeier and has diversified into a provider of specialty veterinary and livestock products.

Type of Research:

- Feed testing: beef, sheep and dairy
- Nitrate testing

Available Infrastructure:

- Veterinary practice
- Laboratory

Special Features:

- Normal turnaround is 7-10 days, with nitrate results within two days

Staff Size: 6

Key Contact: Dr. Ted Dupmeier, Owner, 306-773-5773/888-773-5773, cattlecarevetconsultants@sasktel.net

Website: <http://www.cattlecarevet.com>

Last updated: February 20, 2011

Discovery Seed Labs

Type of Resource: Service provider

Access: Fee for service

Location: Saskatoon, Saskatchewan

Description:

Discovery Seed Labs Ltd. is an independent, commercial laboratory that provides scientific and technical services to the seed industry.

Type of Research:

- Wide range of seed testing including DON (vomitoxin)

Available Infrastructure:

- Laboratory testing facilities

Special Features:

- Canadian Seed Institute Accredited
- Canadian Food Inspection Agency Accreditation for purity and germination of all crop kinds in grade tables 1-11 (except orchard grass), 13, and 16-20

Staff Size:

Key Contact: Bruce Carriere, Owner, 306- 249-4484

Website: <http://www.seedtesting.com>

Last updated: February 20, 2011

National Research Council–Plant Biotechnology Institute (NRC–PBI)

Type of Resource: Government Research Centre

Access: Private and public-funded research

Location: University of Saskatchewan Campus, Saskatoon, Saskatchewan

Description:

NRC-PBI is a major research centre for plant biosciences in Canada with expertise in genomics, metabolic pathways, gene expression, genetic transformation, structured biology and natural product chemistry. NRC-PBI promotes research and innovation that improves plant biotechnology methods and adds value and quality to Canadian crops.

Type of Research:

- Plant products for health and wellness
- Seed systems

Available Infrastructure:

- Bioinformatics Centre supporting genomics data including DOTM (Genome Canada), Brassica Seed Development (NRC-GHI), and the Natural Plant Genomics Project (NRC-CEHH).
- Laboratory facilities for DNA sequencing and gene synthesis, nuclear magnetic resonance (NMR), mass spectrometry, and plant and cell technologies.
- Industry Partnership Facility (IPF) provides 77,000 square feet of office and laboratory space to plant biotech companies who wish to start or grow their business.

Special Features:

- NRC-PBI's Plant and Cell Technologies Lab provides expertise and support in plant tissue culture. Capabilities include transforming plants as well as producing doubled haploids in a number of different species.

Staff Size: > 100 scientists, technicians and support personnel

Key Contact: Jerome Konecsni, Director General, 306-975-5248, Jerome.Konecsni@nrc-cnrc.gc.ca

Website: <http://www.nrc-cnrc.gc.ca/pbi-ibp/index.html>

Last updated: February 20, 2011

POS Bio-Sciences Inc.

Type of Resource: Private Research

Location: University of Saskatchewan Campus, Saskatoon, Saskatchewan

Description:

POS Biosciences is a confidential contract research, toll processing, and analytical services organization specializing in extraction, fractionation, purification, and modification of bio-based materials such as proteins, lipids and oils, bioactives, and carbohydrates.

Type of research:

- Development of manufacturing processes for novel nutritional products

Available infrastructure:

- 11 fully equipped laboratories for carrying out a wide variety of bioprocessing investigations
- 6 dedicated pilot plant processing areas, including primary, solvent(2), oils, and secondary
- Enormous selection of processing equipment all in one location
- Warehouse with quarantine area, coolers, freezers
- Client rooms with Internet connections, direct telephone lines, work areas

Special Features:

- One of the only research facilities offering expertise and facilities to work with oil extraction from biomass products
- ISO 9001:2008 certified
- Proteins and extraction and purification of bio-active components
- Expelling and extraction of oilseeds; refining, degumming, bleaching, interesterification and deodorization of edible oils
- Production and characterization of proteins, bioactives and polysaccharides, including starches, soluble and non-soluble fibres
- Extraction, components drying, milling, fractionation, oils refining, and deodorization
- Extraction, fractionation and purification of lipids and other bioactive compounds

Staff size: 25

Key Contact: Varies by project and expertise required. Main number: (306) 978-2800

Website: www.pos.ca

Last update: January 15, 2011

Prairie Swine Centre Inc.

Type of Resource: Public University

Access: Private and public-funded research

Location: 20 km South of Saskatoon, Saskatchewan

Description:

Prairie Swine Centre Inc. is a non-profit research and technology corporation affiliated with the University of Saskatchewan. The centre receives core funding from pork producer agencies in Saskatchewan, Alberta and Manitoba, as well as Saskatchewan Agriculture and Food.

The centre's mandate is to produce and distribute knowledge derived through original research, scientific review and economic analysis.

Available Infrastructure:

- Facilities are state of the art and feature the latest environmental, penning and feeding equipment.
- Research facilities include a fully equipped surgery room (including preparation and recovery areas) with independent heating and ventilation.
- Grower-finisher facilities – 1,672 spaces with metabolism rooms, intensive rooms, semi-intensive rooms, commercial rooms and engineering rooms.
- Sow research unit housing 300 sows (126' x 203' barn), with laboratory facilities, a small office and facilities for breeding, gestation, farrowing and gilt development.
- Offsite commercial facilities adapted to research in areas including disease challenge and immunization.

Type of Research:

- Behaviour
- Nutrition
- Engineering (including feeder types, air quality and energy costs)

Special Features:

- Small number of feeder and finishing trials

- Pre-mix room for storage of special ingredients and experimental substances, and preparation of pre-mixes for experimental diets
- Research work at the centre is considered close to market research

Staff Size: 17 scientists and support staff

Key Contact: Lee Whittington, President and CEO, 306-966-7447,
lee.whittington@usask.ca

Website: <http://www.prairieswine.com>

Last updated: February 20, 2011

Saskatchewan Disease Control Laboratory Environmental Services Section

Type of Resource: Service provider

Access: Fee for service

Location: Regina, Saskatchewan

Description:

The Environmental Services section at the Saskatchewan Disease Control Laboratory has been testing water quality in the province for over 90 years. Using a variety of state-of-the-art equipment, drinking water, surface water, groundwater and sewage water is tested. Service is open to all customers, from private well owners to municipalities and industry.

Type of Research:

- Water testing for all purposes such as drinking water, industrial and municipal effluent, etc.
- Testing available for bacteria, physical parameters (e.g. suspended solids) and chemical parameters (e.g. alkalinity), and metals (e.g. calcium, mercury).

Available Infrastructure:

- Full analytical laboratories for water testing.

Special Features:

- Full list of available tests and prices available online: <http://www.health.gov.sk.ca/water-service-charges>
- Samples must be submitted in special sterilized bottles supplied by the lab. Call (306) 787-3192

Staff Size:

Key Contact: 1-866-450-0000

Website: <http://www.health.gov.sk.ca/water-testing>

Last updated: February 20, 2011

Saskatchewan Research Council (Agriculture Biotechnology & Food Division)

Type of Resource: Government Research Centre

Access: Private and public-funded research

Location: Saskatoon, Saskatchewan

Description:

SRC provides research and development, technology services and products to public and private clients in Saskatchewan and around the world. Specific to the life sciences cluster, SRC provides services in animal and plant genetic testing, fermentation, and biofuels research.

SRC was established in 1947 to advance development of the physical sciences in Saskatchewan. Its facilities are located within Innovation Place Research Park.

Type of Research:

- Bioprocessing
- Genetics
- Health and food

Available Infrastructure:

- Facilities and services include lyophilization, downstream processing, micro- and ultra-filtration, protein purification and quality control testing.
- World-class Biosafety Level 2 fermentation plant.
- Fermentation facilities and expertise for non-regulated work in areas such as crop protection, seed enhancement and biofuels.
- GenServe Laboratories provides genetics services and applied research (including SNP-based genotyping) to the biotechnology and agriculture industries.

Special Features:

- Canada's only contract research organization with a Canadian Food Inspection Agency (CFIA) license to produce animal vaccines.
- Highly-trained scientific and support staff, including Quality Control/Quality Assurance employees to ensure projects adhere to Good Laboratory Practices (GLP).

- Focus is on technology commercialization and the transfer of technology to and from clients.

Staff size: > 50 scientists, technicians and support staff

Key Contact: Phillip Stephan, Vice-President, 306-933-8199, stephan@src.sk.ca

Website: <http://www.src.sk.ca>

Last updated: February 20, 2011

University of Saskatchewan: Beef Research and Teaching Unit

Type of Resource: Public University

Location: University of Saskatchewan Campus, Saskatoon

Description:

The Beef Research & Teaching Unit is devoted to teaching students from the Department of Animal and Poultry Science and the Western College of Veterinary Medicine. Research is conducted by the Sustainable Beef Systems Research Group, which includes researchers from the College of Agriculture and Bioresources, College of Engineering and the Western College of Veterinary Medicine.

Type of Research:

- beef cattle genetics for animal health and quality of beef
- nutrient performance of grain industry and ethanol production by-products
- humane handling and stress reduction
- antibiotic use and evaluation of residues
- ultrasound applications in breeding and marketing programs

Available Infrastructure:

- Back grounding-finishing operation with capacity for about 750 head of feeder cattle.

Special Features:

- Host facility for the annual Western Canada Feedlot Management School.

Staff Size:

Key Contact: Teresa Binetruy, (306) 966-4138 or teresa.binetruy@usask.ca

Website: <http://agbio.usask.ca/index.php?page=facilities-2>

Last updated: January 22, 2011

University of Saskatchewan: Canadian Feed Research Centre

Type of Resource: Public University

Location: North Battleford

Description:

Industrial feed processing research centre devoted to developing and commercializing new and better high value animal feeds from low value crops and from co-products of biofuels production. Part of the industrial capability is licensed to Cargill for commercial feed. Industry is encouraged to discuss proprietary or collaborative research with the Feeds Innovation Institute.

Type of research:

- Feed production from by-products of biofuels (e.g. dry distiller's grains)
- Use of feed processing technology and/or feed additives to increase the feed value of ingredients, consistent feed products, environmental protection,
- Enhanced livestock nutrition and improved animal health
- Establish use of rapid assessment technology to predict efficacy

Available Infrastructure:

- Six tonne/hour pilot scale feed processing line with roller mill, hammer mill, 500 kg mixer, flakier with steam chamber.
- Pellet mill with and triple pass conditioner, , counter flow cooler, crumblier, triple deck screener,
- Lab and industrial-scale vacuum coatiers. Twin-screw extruder including a feeder and conditioner. Dryer
- 20 tonne/hour industrial line with multi-species feed capacity. Includes two 250-hp hammer mills, a three-tonne ribbon mixer, and three tonne surge hopper, 300 hp pellet mill with conditioner and screener, liquid coating application system.
- Bulk receiving, storage and load-out systems; complete process control.

Special Features:

- Pellet mills, steam flakers, extrusion, seed sorters, specialized grinding, exterior coating.
- Lab facilities onsite.

- Pilot line completely automated, with capability for extensive data and sample collection, including energy usage.
- Closely aligned to University of Saskatchewan's Saskatoon facilities for feeding trials of new feed products.

Staff Size: 2

Key Contact: Tom Scott, Research Chair in Feed Processing Technology: (306) 966-4279, tom.scott@usask.ca

Website: <http://agbio.usask.ca/uploads/mlz124/CFTRF%20new.pdf>

Last updated: January 29, 2011

University of Saskatchewan: Dairy Teaching and Research Facility

Type of Resource: Public University

Location: University of Saskatchewan Campus, Saskatoon

Description:

The Greenbrae dairy herd is managed through the Department of Animal and Poultry Science. The Dairy Teaching and Research Facility plays a significant role in teaching undergraduate and graduate students within the College of Agriculture and Bioresources and the Western College of Veterinary Medicine, and in outreach and engagement activities related to the dairy industry. The University herd placed first in Saskatchewan in 2007 for the CanWest DHI Herd Management Score.

Type of research:

- Evaluation of Saskatchewan-produced feedstuffs such as canola products and dry distiller's grains.
- Dairy production response to specific diets
- Metabolic studies investigating rumen fermentation, and whole-body and tissue-specific nutrient utilization

Available Infrastructure:

- 65-cow Holstein dairy herd

Special Features:

- Herd production levels are high; consistently ranked in top 15 milk recorded herds in Saskatchewan.
- Currently the facilities are been used to conduct trials to evaluate Saskatchewan grown feed ingredients. New facility to be built in 2011-12.

Staff size:

Key Contact: Dr. Timothy Mutsvangwa (306) 966-1695 or tim.mutsvan@usask.ca

Website: <http://agbio.usask.ca/index.php?page=facilities-2>

Last updated: January 23, 2011

University of Saskatchewan: Feed Innovation Institute

Type of Resource: Science Provider

Access: Fee for services

Location: University of Saskatchewan Campus, Saskatoon

Description:

The Feeds Innovation Institute (FII) is a commercialization centre located in the College of Agriculture and Bioresources. The mandate of FII is to link industry and academia through fee for service activity, as well as administration of research networks.

Type of Research:

- Animal trials for all of the University of Saskatchewan animal facilities.
- Feed processing at the Canadian Feed Research Centre
- Nutritional and anti-nutritional chemistry

Special Features:

- Benefits to business interface with the use of confidentiality and work service agreements

Staff Size: 2

Key Contact: Dr. Colleen Christensen, Director, 306-966-4154,
colleen.christensen@usask.ca

Website: <http://feeds.innovation.usask.ca/>

Last updated: May 25, 2011

**University of Saskatchewan: Plant Sciences/Crop Development Centre
Research Facilities**

Type of Resource: Public University

Access: Private and Public Funded Research

Location: University of Saskatchewan Campus, Saskatoon, Saskatchewan

Description:

The University of Saskatchewan's total land base dedicated to plant research is 1,979 ha (4,890 acres), all within a short distance of its campus. The U of S features extensive facilities dedicated to seed development, horticulture and crop sciences.

Available Infrastructure:

- Greenhouses – 25,000 square feet on campus. High-intensity lighting, rolling benches, in-floor heating, flood floors and mechanized shade canopy.
- Breeder Seed Facility – A state-of-the-art, 10,000-square-foot seed cleaning facility.
- Horticulture Facility – Located on 27.5 ha (69 acres) of land dedicated to producing, processing and evaluating horticulture crops. Onsite header house complex with cold storage and product handling facilities, machine shop and storage.
- Crop Science Field Facility – Located on 48 ha (120 acres) of irrigated land dedicated to producing, processing and evaluating field crops. Onsite field facility that houses technical staff, a 1,330-square-metre pulse research facility, and a 1,466-square-metre Grains Innovation Laboratory.

Special Features:

- Research and development of feed grains
- Continuous research on silage production

Staff Size:

Key Person: Dr. Bruce Coulman, Department Head, 306-966-5855,
bruce.coulman@usask.ca

Website: <http://agbio.usask.ca/index.php?page=research-facilities>

Last Update: February 20, 2011

University of Saskatchewan: Poultry Teaching and Research Center

Type of Resource: Public University

Location: University of Saskatchewan Campus, Saskatoon

Description:

The Poultry Centre is the base for teaching and research in Poultry Science at the University of Saskatchewan.

Type of research:

- Sustainable production systems and management
- Poultry nutrition (biochemistry, feeds and feed evaluation; feeding systems, feed processing, bioactive compounds)
- Animal behaviour and welfare (broiler lighting programs, hen beak trimming, turkey toe trimming; nutritional modification of behaviour)
- Engineering (transportation, environmental control, assessing bird temperature, transportation)
- Meat quality
- Biotechnology (e.g. Nutrition-gut microbiota-host response interactions, growth, immune system modulation, probiotics, gut microbiology)
- Genetics, molecular genetics

Available Infrastructure:

- 3,000 square meters of space, including a hatchery, gnotobiotic animal research facility, brooding and rearing barn, adult barn and a turkey research facility.
- Total bird usage varies; maximum capacity of about 43,000 birds per year.
- Available birds include broilers, White Leghorns, pure chicken breeds and commercial turkeys.

Special Features:

- Gnotobiotic capacity; videotaping capacity in broiler and turkey barns, continual feed and water intake monitoring in turkey facility, chamber for environmental and transportation work.

Staff Size:

Key Contact: Dr. Karen Schwean-Lardner, Manager 966-2492, karen.schwean@usask.ca

Website:

Last updated: February 20, 2011

University of Saskatchewan: Prairie Aquaculture Research Centre

Type of Resource: Public University

Location: University of Saskatchewan campus, Saskatoon

Description:

The Prairie Aquaculture Research Centre (PARC) was built in 1998 to pursue feeds research for the aquaculture industry, in particular, using Saskatchewan agricultural crops for this purpose. PARC is equipped for research into fish growth and nutrient digestibility.

Type of Research:

- Digestibility of feed ingredients
- Growth response to specific diets

Available Infrastructure:

- 30x360 litre culture tanks and 36x75 litre culture tanks that can be used for digestibility and growth performance trials.
- Designed for the culture of both warm and cold water finfish species.
- Facilities for controlled feeding and for waste analysis.

Special Features:

- Currently the facilities are been used to conduct trials to evaluate Saskatchewan grown feed ingredients.

Staff Size:

Key Contact: Dr. Murray Drew, (306) 966-2367 or murray.drew@usask.ca

Website:

Last updated: January 15, 2011

University of Saskatchewan: Prairie Diagnostic Services

Type of Resource: Public University

Access: Public and private research, fee for service

Location: University of Saskatchewan Campus, Saskatoon, Saskatchewan

Description:

Prairie Diagnostic Services Inc. (PDS) provides veterinary laboratory services and expertise in support of animal health diagnostics, research, teaching and surveillance.

PDS is a member-type, non-profit corporation. Its members are the Province of Saskatchewan and the University of Saskatchewan. It is governed by a board of directors and operates independently of the University.

Laboratory services are supported through grants and in-kind contributions from the province and university, as well as fees for services.

Type of Research:

- Fee-for-service diagnostic testing including: necropsy; surgical pathology; clinical pathology; histology, bacteriology; immunology; PCR (polymerase chain reaction); virology and toxicology
- Facilitation of livestock diagnostics and animal health surveillance in the province of Saskatchewan
- Support of veterinary teaching and research programs at the U of S

Available Infrastructure:

- PDS is located at the Western College of Veterinary Medicine, with laboratories integrated directly into the College.

Special Features:

- ISO 17025 certification (Standards Council of Canada)

Staff Size: ~ 55 diagnostic staff

Key Contact: Marilyn Jonas, President, 306-966-7316, pds.info@usask.ca

Website: <http://www.pdsinc.ca>

Last updated: February 20, 2011

University of Saskatchewan: Sheep Unit

Type of Resource: Public University

Access: Private and public-funded research

Location: University of Saskatchewan Campus, Saskatoon, Saskatchewan

Description:

This facility houses purebred sheep for research and teaching sheep production to students from the U of S, Saskatchewan Institute of Applied Science and Technology (SIAST), and children attending the university's Ag Adventures day camp.

Type of research:

- Sheep production
- Metabolism studies

Available Infrastructure:

- Feed lot facility for about 350 purebred Suffolk ewes and 30 rams
- Sheep metabolic unit
- Small laboratory facility

Special Features:

- Lambing occurs three times per year (February, June and October)

Staff size:

Key Contact: Dr. Fiona Buchanan, Professor, 306-966-4160, fiona.buchanan@usask.ca

Website: <http://agbio.usask.ca/index.php?page=facilities-2>

Last updated: February 20, 2011



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Alberta

Agriculture and Agri-Food Canada Research Centre Lethbridge

Type of Resource: Government Research Centre

Location: Lethbridge, Alberta

Description:

The Lethbridge Research Centre (LRC) is one of the largest within Agriculture and Agri-Food Canada's national network of 19 research centres. It focuses on environmental health, bioproducts and bioprocesses, food safety and nutrition, and sustainable production systems. Its main operations are in Lethbridge, and it operates three substations:

- One four - livestock and range management
- Stavely - management of foothills rangeland
- Vauxhall - irrigated crop production and drainage studies

Type of research:

- beef cattle production and quality
- sustainable crop production systems (dry land, irrigation, and rangeland)

Available Infrastructure:

- 25,000 square meters of laboratory/office complex and 500 hectares of adjacent land
- insect-microbial containment facility
- greenhouse and controlled climate growth facilities
- facilities for dairy, sheep and beef cattle, including a 500-head research feedlot
- weather station with 100 years of climate records
- research farms at One four with 17,000 hectares of short grass prairie rangeland; Vauxhall with 190 hectares for irrigation and drainage research; Stavely with >400 hectares of rough fescue

Special Features:

- 800 beef cows
- 200 individual feeders

- chambers for research on greenhouse gas emissions
- research-style feed mill: pelleting, steam rolling, grinding and flaking

Staff Size: 54 researchers plus support staff

Key Contact: Brian Freeze, Research Director, 403-317-3445,
Brian.Freeze@agr.gc.ca

Website: <http://www4.agr.gc.ca/AAFC-AAC/display-afficher.do?id=1180547946064&lang=eng>

Last updated: January 15, 2011

Animal Behaviour and Feed Efficiency Network

Type of Resource: Network of Research Centres

Location: Alberta

Description:

The Animal Behaviour and Feed Efficiency Network is a collaboration of public researchers and industry personnel. Its objectives are to:

Develop and standardize hardware and software to measure animal feed intake and behavioural traits using systems that integrate radio frequency (RF) transponders, remote physiological sensors, wireless communication, RF detection and software design (e.g., GrowSafe System).

Establish standards for data collection, conservation, access, analysis, evaluation and improvement, and contribute to the scientific basis for animal science data management.

Develop new statistical methods for large data set analysis and pattern recognition.

Review and discuss existing research programs, recommend improvements, enhance coordination and reduce duplication.

Type of research:

- Animal behaviour
- Feed intake and efficiency
- Hardware and software development
- Standardization of data collection, analysis, use, evaluation and improvement

Available Infrastructure:

- Varies by network member.

Special Features:

- Government, academic, industry collaboration. Includes representation from Agriculture and Agri-Food Canada, Alberta Agriculture, Food and Rural Development, University of Alberta, University of Calgary, Olds College Centre for Innovation and GrowSafe Systems Inc.

Staff Size: Varies by network member

Key Contact: Tim McAllister, Project Manager (Principal Research Scientist, AAFC Lethbridge) (403) 317-2240, tim.mcallister@agr.gc.ca

Website: [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/beef9686#1](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/beef9686#1)

Last updated: February 17, 2011

Feedlot Management Health Services

Type of Resource: Private company

Access: Fee for service

Location: Okotoks, Alberta

Description:

Feedlot Health Management Services (FHMS) is a consulting company providing comprehensive herd health programs, veterinary consulting services and computerized health recording systems to feedlots throughout Western Canada and the U.S.

Type of Research:

- Feedlot and cow/calf research studies

Available Infrastructure:

- Greater than 1 million animal throughput annually

Special Features:

- Unique software tools

Staff Size: 9 veterinarians and 18 support staff

Key Contact: Dr. Kee Jim, Owner, 403-938-5151, keej@feedlothealth.com

Website: www.feedlothealth.com

Last updated: May 25, 2011

Gowan's Feed Consulting Inc.

Type of Resource: Private Company

Location: Irma, Alberta (head office: Red Deer)

Description:

Gowan's Feed Consulting (GFC) is a leading independent swine nutrition consulting company serving North American hog producers since 1990. The company focuses on maximizing net returns by providing expertise in swine nutrition, production management support, input cost reduction and research. Together with Drumloche Farms, GFC constructed a state-of-the-art grow-finish facility devoted to pork research near Irma, Alberta. GFC manages the research facility.

Type of research:

- swine feed formulation and testing
- input cost reduction

Available Infrastructure:

- Research barn with two main rooms, each with a 1,050-hog capacity (2,100 head total capacity). Capacity for six grow-finish experiments per year.
- 52 pens per room, with 22 pig capacity each up to market weight (120 kg).
- Each room equipped with six eight-tonne bins, equipped with automatic, computer-controlled precision feeding system. Water system is also metered to allow tracking.
- Group and individual animal weighing available.

Special Features:

- Office, meeting room, showering facilities and computers available on site.

Staff Size: Skilled technicians and labour support available as required

Key Contact: Dr. Malachy Young, (780) 842-9221 or Jim Gowans, (403) 346-2554

Website: none

Last updated: January 21, 2010

IEH Laboratories & Consulting Group

Type of Resource: Service provider

Access: Fee for service

Location: Brooks, Alberta (other locations across North America)

Description:

IEH Brooks Food, Water, Soil and Animal Feed Testing Laboratories provide a full range of food, feed, forage, water, and associated testing services. As a part of IEH Laboratories and Consulting Group, offers comprehensive analytical services.

Type of Research:

- Water and soil testing
- Feeds and forages testing

Available Infrastructure:

- Full analytical testing facilities for microbiology, chemistry, genetic fingerprinting, microbial identification, nutritional analysis, export requirements, shelf life stability

Special Features:

- Forensic level investigation available.

Staff Size:

Key Contact: (403) 362-3326 Ext. 3164

Website: www.iehinc.com

Last updated: February 21, 2011

Midwest Laboratories Canada

Type of Resource: Service provider

Access: Fee for service

Location: Calgary, Alberta

Description:

Midwest Laboratories provides analytical services for business and individual needs. These services include food, water, soil, plant tissue, fertilizer, manure, feed and pet food testing.

Type of Research:

- Testing packages cover a full range including foods, nutritional labels, microbiology, water, soil, lawn and garden, plant tissue, pet food, feed, manure, fertilizer, seed, pesticides, inorganic metals, inorganic environmental, biodiesel, ethanol, and suspected hazards.

Available Infrastructure:

- Full analytical testing facilities.

Special Features:

- Online information management system available to clients to monitor test results or search historical data.

Staff Size:

Key Contact: (403) 250-3317, mwl@midwestlabscanada.com

Website: www.midwestlabscanada.com

Last updated: February 20, 2011

Nutrilytical

Type of Resource: Service provider

Access: Fee for service

Location: Calgary, Alberta

Description:

Nutrilytical offers forage testing as part of the worldwide network of Dairy One Laboratories. The company also offers Nutrition Facts panel creation services to the food industry, and consulting services dealing with Food chemistry, processing, and Near Infrared real time process control.

Type of Research:

- Food and forage testing

Available Infrastructure:

- Near infrared spectroscopy (NIR). Extensive NIR experience on staff.

Special Features:

- nutrition labelling services available

Staff Size:

Key Contact: 1-888-806-8874, info@nutrilytical.ca

Website: www.nutrilytical.ca

Last updated: February 21, 2011

Parkland Laboratories

Type of Resource: Service provider

Access: Fee for service

Location: Red Deer, Alberta

Description:

Parkland Laboratories is a small company specializing in feed analysis, particularly for nitrates in feed and forage.

Type of Research:

- Feed testing, especially nitrates

Available Infrastructure:

- Analytical equipment for feed analysis

Special Features:

Staff Size: ~ 3

Key Contact: Walter Pitz (403) 342-0404

Website: none

Last updated: February 21, 2011

Sandberg Labs

Type of Resource: Service provider

Access: Fee for service

Location: Lethbridge, Alberta

Description:

Sandberg Labs is a private, independently-owned laboratory in operation for more than 30 years. The company's areas of specialty are animal feeds, soils, pet food, water, septic, tissues, and mixer efficiencies.

Type of Research:

- Feed tests include nitrates, tissues, elements, fat, fibre, ADF, NDF and more
- Other available testing: soils, water, seeds, mixer efficiency, manure and compost testing

Available Infrastructure:

- Laboratory facility

Special Features:

- National Forage Testing Association (NFTA) certified

Staff Size: ~ 7

Key Contact: 403-328-1133, info@sandberglabs.com

Website: <http://www.sandberglabs.com>

Last updated: February 21, 2011

Star Quality Samplers

Type of Resource: Equipment sales

Access: Fee for service

Location: Edmonton, Alberta

Description:

Star Quality Samplers is a supplier of sampling probes for materials including forage, seed and feed, fertilizers, feed concentrates, bulk seeds and soil. All probes and components are constructed from stainless steel.

Type of Research:

- Not applicable

Available Infrastructure:

- Not applicable

Special Features:

- STAR samplers are used by the Canadian Food Inspection Agency and the Departments of Agriculture in Louisiana and Ohio.
- Samplers are designed to meet International Seed Testing Association (ISTA) guidelines and recommendations.

Staff Size: ~ 3

Key Contact: Donald Laverty, Owner, 780-434-3367, starquality@interbaun.com

Website: <http://www.starqualitysamplers.com>

Last updated: February 21, 2011

University of Alberta: Alberta Bovine Genomics

Type of Resource: Public University

Location: University of Alberta, Edmonton

Description:

The core of the Alberta Beef Genomics Program is the Kinsella Farm (near Edmonton), together with the Agricultural Genomics and Proteomics Unit at the University of Alberta.

Type of research:

- Nutrition, meat science, animal behaviour, reproductive physiology of cattle.
- Available Infrastructure:
- Genomics and Proteomics Unit, featuring:
 - Bov50 SNP chip, an assay that can scan for more than 50,000 point mutations across the genome. Promises 50 per cent greater rate of improvement in livestock.
 - Genetic testing for growth, feed efficiency, and carcass characteristics.
 - Full suite of the latest genetic testing and analysis equipment.
 - Environmental and Metabolic Research Facility with large animal metabolic rooms, controlled environment chambers, calorimetry system, and isotope and surgical facilities.
- Kinsella Ranch, located 160 km southeast of Edmonton, featuring:
 - 12,000 acres (4,860 ha) of ranch land. Open front performance testing barn, cattle working and handling building.
 - Production level feed mill for mixing grains; silage capacity planned.
 - Capacity for 850 head of cattle. University herd consists of about 350 cows and the One four herd, relocated from the AAFC research station of the same name.

Special Features:

- Kinsella Ranch uses the GrowSafe system is used on site to provide state-of-the-art instrumentation to record precise feed intake, behaviour and health status. There are 20 GrowSafe nodes with a capacity of 180 head per 120-day feeding cycle.

Staff Size:

Key Contact: Dr. Stephen Moore, Professor and Leader, Alberta Bovine Genomics Program (780) 492-2383, Stephen.Moore@afhe.ualberta.ca

Website: <http://www.bovinegenomics.com>

Last updated: February 21, 2011

University of Alberta: Central Laboratories, Dept. of Agricultural, Food & Nutritional Science

Type of Resource: Public University

Location: Agriculture and Forestry Centre, University of Alberta, Edmonton

Description:

The Central Laboratories provide facilities for plant and animal genomics and proteomics research, feed and food analysis, plant growth facilities, and a wide range of advanced analytical equipment.

Type of research:

- Feed and food research, livestock genomics, nutrition and metabolism, feed processing, carcass and meat science, related research.

Available Infrastructure:

- Greenhouses, growth cabinets.
- Microscopy (light, fluorescence)
- Plant and animal tissue culture facilities
- Gas chromatography, spectrophotometers
- Radioisotope laboratories
- Sensory evaluation rooms

Special Features:

- Part of major Canadian research University; can accommodate large scale, experimental, and intensive livestock research.

Staff Size:

Key Contact: Richard Smith, Coordinator, Research Development and Industry Relations (780) 492-1777, rhsmith@ualberta.ca

Website: <http://www.ales.ualberta.ca/afns/Research/Facilities.aspx>

Last updated: February 19, 2011

University of Alberta: Dairy Research and Technology Centre

Type of Resource: Public University

Access:

Location: University of Alberta, South Campus, Edmonton

Description:

The Dairy Research and Technology Centre is a joint venture among the University of Alberta, Alberta Agriculture Food and Rural Development (AAFRD), and Alberta Milk. DRTC's vision is to be Canada's leading centre for excellence in dairy research, teaching, and technology transfer.

Type of Research:

- Production efficiency and sustainability, reproductive efficiency and nutritional quality of milk.
- Feed ingredient nutritional improvement (e.g. barley, canola meal).

Available Infrastructure:

- 350-foot long dairy barn including 146 tie stalls and a pipeline milking system housing a herd of about 150 Holstein cows. The unit supports research in production efficiency and sustainability, reproductive efficiency and nutritional quality of milk.
- Individual animal penning for specific research trial work.
- 170 total dairy animals excluding calves
- Lab work done internally for fatty acids

Special Features:

- 20 fistulae animals

Staff Size:

Key Contact: Dr. Masahito Oba (780) 492-9003, masahito.oba@ualberta.ca

Website: <http://www.ales.ualberta.ca/afns/Research/DRTC.aspx>

Last updated: February 20, 2011

University of Alberta: Poultry Research Centre

Type of Resource: Public University

Location: University of Alberta, South Campus, Edmonton

Description:

- The Poultry Research Centre is a collaborative venture among the University of Alberta, Alberta government, and the poultry industry.

Type of research:

- Reproductive efficiency in chickens and turkeys, controlled environments, nutrition, production efficiency and economics, value-added product development, packaging and food safety research.

Available Infrastructure:

- Poultry slaughter and processing plant, with capacity for up to 300 broilers or 100 turkeys/day.
- 150 square metre refrigerated lab space for meat processing and product development.
- Federally accredited hatchery, with egg storage facilities, embryo metabolism monitoring equipment, three 5,000-egg incubators, two 860-egg incubators and a chick processing area.
- Eight 17 square metre environmental chamber rooms, with excellent monitoring of ventilation, temperature, photoperiod, light intensity, feed and water intake, and air quality. Ideal for caged or floor-housed birds.
- Broiler breeder facility for 288 laying hens (provision for another 128), plus 60 males.
- Battery housing broiler/turkey/layer rearing facility, allowing juvenile birds to be raised in groups of 2-10, or in larger group battery housing.
- Broiler turkey/layer/broiler breeder floor pens to house groups of 100-300 birds per pen with photoperiod and temperature control.
- Carcass and egg quality lab with dissection and analysis lab, with egg quality testing equipment and walk-in frozen sample storage.
- Metabolic Unit - Indicator Amino Acid Oxidization Facility to determine amino acid requirements and availability from feeds.

- Feed mixing facility for mixing experimental diets.
- Labs for hormone assays and a suite of other analyses.

Special Features:

- Comprehensive poultry research facility, also affiliated with provincial and federal research facilities in Alberta

Staff Size: ~25

Key Contact: Dr. Iwona Pawlina, Executive Director (780) 492-1561,
laurie.heidebrecht@ualberta.ca

Website: <http://www.poultryresearchcentre.com>

Last updated: February 19, 2011

University of Alberta: Swine Research Technology Centre

Type of Resource: Public University

Location: University of Alberta, South Campus, Edmonton

Description:

The Swine Research Technology Centre is the consolidation of swine-based research programs at the university, including the previous Sinclair Swine Research Unit.

Research programs focus on nutrition and metabolism, feeds and feedstuff utilization, and reproduction of breeding herd management. The SRTC provides research animals to biomedical research programs in other university departments, and is equipped to accommodate biomedical research projects on site.

The SRTC also supports teaching programs for graduate and undergraduate students, and welcomes volunteers wishing to gain experience in the swine industry and livestock handling.

Type of Research:

- Swine reproduction and development
- Nutrition and metabolism
- Feed science and technology

Available Infrastructure:

- \$5-million state-of-the-art centre completed in 2002
- Extensive animal facilities and laboratories
- Surgery centre

Special Features:

- Alberta Pork Pig Science Centre (industry interpretive centre)

Staff Size: > 30 scientists, staff, research associates and postdoctoral fellows

Key Contact: Dr. Ruurd Zijlstra, Associate Chair (Research), 780-492-8593,
ruurd.zijlstra@ualberta.ca

Website: <http://www.ales.ualberta.ca/afns/Research/SRTC.aspx>

Last updated: February 20, 2011



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British Columbia

Fraser Analytical Services

Type of Resource: Service provider

Access: Fee for service

Location: Abbotsford, British Columbia

Description:

Fraser Analytical Services is a satellite facility of Cumberland Valley Analytical Services (CVAS) located in Abbotsford in British Columbia's Fraser Valley. Fraser Analytical is focused primarily on providing rapid turn-around of forage and feed analysis by near infrared spectroscopy (NIR). Using expanded equations, Fraser Analytical provides nutrient evaluations not traditionally available by NIR to the Canadian feed industry.

Type of Research:

- Testing service includes NIR analysis, digestibility, fermentation, mold identification. Full listing of services available online in services and pricing guide at www.fraseranalytical.com/pdf/services-pricing-guide.pdf.

Available Infrastructure:

- Full complement of forage and feed testing analytical facilities.

Special Features:

- Results of NIR analysis guaranteed next business day when sample submitted before noon.

Staff Size:

Key Contact: (604) 557-1487, info@fraseranalytical.com

Website: <http://www.fraseranalytical.com>

Last updated: February 21, 2011



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Other Labs

A&L Canada Laboratories

Type of Resource: Service provider

Access: Fee for service

Location: London, Ontario

Description:

A&L Canada Laboratories is one of Ontario's largest agricultural and environmental laboratories. It was formed in 1985 with the merger of Croptech Laboratories and is a Canadian-owned subsidiary of A&L Laboratories, which operates eight facilities in North America.

Type of Research:

- Extensive soil, plant tissue, feed, fertilizer and water testing

Available Infrastructure:

- Laboratory facilities

Special Features:

- QA/QC includes extensive participation in certification and performance evaluation programs including CALA and OMAF
- Accreditation through the Canadian Certified Crop Advisor Association, OMAFRA/NAPT, SCC/CFIA and more

Staff Size:

Key Contact: Greg Patterson, President, 519-457-2575, alcanadalabs@alcanada.com

Website: <http://www.alcanada.com>

Last updated: February 21, 2011

Agri-Food Laboratories

Type of Resource: Service Provider

Access: Fee for service

Location: Guelph, Ontario

Description:

- Agri-Food Laboratories is a full-service analytical facility serving all sectors of the agricultural industry.
- The company offers laboratory and in-field services.

Type of Research:

- Analysis of feeds & forages, soils, fertilizers, plant tissue and greenhouse media and solutions
- Services include mould identification and mould toxin screening

Available Infrastructure:

- Laboratory facilities

Special Features:

- Reports On-Line is a web-based system that provides around-the-clock access to current and historical reports, as well as online calculators and crop recommendations. Customers are able to download reports in a variety of formats.
- Accreditation and certification including ISO 17025-2005, OMAFRA, AAFCO, NTFA and more.

Staff Size:

Key Contact: Trish Kelly, General Manager, 519-837-1600/800-265-7175, lab@agtest.com

Website: <http://www.agtest.com>

Last updated: February 21, 2011

University of Guelph: Laboratory Services

Type of Resource: Public University

Access: Public and private

Location: University of Guelph, Ontario

Description:

Laboratory Services at the University of Guelph include an Agriculture and Food Laboratory and Animal Health Laboratory. The Agriculture and Food Laboratory provides compliance, regulatory and food safety testing services for fruit, vegetables, meat, milk, processed food, soil, water or vegetation. The Animal Health Laboratory offers full-service veterinary diagnostic lab with expert staff with post-graduate training and specialty board certification.

Type of Research:

- Regulatory, analytical, and diagnostic testing.

Available Infrastructure:

AFL:

- DNA analysis, microbiological testing, agrochemical testing, specialized microscopy, nutrient analysis, diagnostic analysis, and testing for drug residues, pesticides and allergens, etc.

AHL:

- anatomic pathology, histotechnology and immunohistochemistry
- bacteriology
- clinical pathology
- immunology/serology
- virology, avian and mammalian
- mycoplasmaology
- parasitology
- toxicology

Special Features:

- AHL is ISO 9001:2008 registered

Staff Size:

Key Contact: (519) 767-6299, aflinfo@uguelph.ca

Website: <http://www.guelphlabservices.com>

Last updated: February 20, 2011