

Feed and Ingredient Packages

Ingredients and Finished Feeds

Package I _____ **\$15.50**
Crude protein, moisture

Package II _____ **\$23.25**
Crude protein, moisture, calcium, phosphorus,
potassium, magnesium, sodium

Package III _____ **\$28.00**
Type II plus zinc, manganese, copper

Package V _____ **\$22.75**
Crude protein, moisture, calcium, phosphorus,
Ca/P ratio, sodium,

Proximate I _____ **\$44.50**
Crude protein, moisture, crude fat, ash,
carbohydrate (calculated)

Proximate II _____ **\$49.75**
Proximate I with fat by acid hydrolysis instead
of crude fat

Options (If no base package is selected, a \$10 base fee will apply)

Crude Fibre	_____	\$13.00
Crude Fat	_____	\$13.00
Hydrolyzed Fat	_____	\$22.75
Salt	_____	\$ 9.75
Ash	_____	\$ 5.00
pH	_____	\$ 6.50
ADF	_____	\$12.50
NDF	_____	\$15.50
Iron	_____	\$ 6.50

Same Day Protein _____ **\$21.00**
Samples must be received before noon.
Applies to ingredients and finished feeds that
can be sampled on an 'As-Is' basis.

Mineral Premix Packages

Mineral I _____ **\$18.65**
Calcium, phosphorus

Mineral II _____ **\$18.65**
Calcium, magnesium

Mineral III _____ **\$37.50**
Calcium, phosphorus, sodium, potassium,
magnesium

Mineral IV _____ **\$37.50**
Zinc, copper, manganese, iron

Mineral V _____ **\$57.00**
Calcium, magnesium, phosphorus, sodium,
potassium, copper, zinc, manganese, iron

Any Single Element _____ **\$18.65**

Toxin Screens

Vomitoxin	_____	\$24.50
Zearalenone	_____	\$24.50
T-2	_____	\$23.50
Aflatoxin	_____	\$33.50

Microbiological

Yeast	_____	\$23.00
Mold	_____	\$23.00
Salmonella	_____	\$18.00
Salmonella Confirmation	_____	\$31.00



Fats and Oils

MIU _____	\$48.00
Peroxide Value _____	\$17.50
Free Fatty Acids _____	\$15.50
20 Hour AOM _____	\$40.00
Iodine Value _____	\$17.00

Other Analyses

Feed Particle Size _____	\$28.00
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Mixer Study

Mixer Na / Mn / Zn _____	\$11.00/smp
Mixer Salt _____	\$13.50/smp

Minimum 9 replicates. HACCP recommends Sodium. Other elements can be requested, contact the lab for more details.

Heavy Metals

Arsenic _____	\$43.00
Lead _____	\$32.00
Mercury _____	\$43.00
Selenium _____	\$48.00

Please allow 10 days for results

Manure Analyses

Liquid _____	\$35.25
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Dry matter, nitrogen, phosphorus, potassium, total salt, ammonium nitrogen

Dry _____	\$35.25
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Dry matter, nitrogen, phosphorus, potassium, ammonium nitrogen

Options (If no base package is selected, a \$10 base fee will apply)

Calcium and Magnesium _____	\$10.00
Zinc, Manganese, Copper, Boron _____	\$13.00
Total Salt _____	\$ 8.00
Carbon/Nitrogen Ratio _____	\$24.00
pH _____	\$ 6.50

Livestock Water

AFL Mineral Analysis _____	\$42.50
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pH, nitrate nitrogen, phosphorus, potassium, magnesium, calcium, chloride, sulphate, total salt (EC), bicarbonate, sodium, total dissolved solids, total hardness, zinc, manganese, copper, iron, boron, silicon

Minimum sample size: 500 ml

Samples in a microbiological bottle cannot be used for mineral analysis.

Samples for human consumption will not be analyzed based on the Safe Water Drinking Act 2002.

Microbiological Tests

Total Coliform _____	\$17.50
E. Coli _____	\$22.50
Faecal Coliform _____	\$17.50
Listeria _____	\$28.00
Faecal Streptococcus _____	\$22.50

Minimum sample size: 250 ml

Sterile bottle required.

Microbiological analysis will be on a separate report. Please submit your sample at the beginning of the week. Samples will not be accepted on Fridays.



Feed and Forage Packages

Wet Chemistry Packages

Type I _____	\$15.50
Moisture, crude protein	
Type II _____	\$23.25
Moisture, crude protein, calcium, phosphorus, Ca/P ratio, potassium, magnesium sodium	
Type III _____	\$28.00
Type II plus copper, zinc, manganese	
Type IV _____	\$32.00
Type II plus acid detergent fibre, net energy lactation, total digestible nutrients	
Type V _____	\$22.75
Moisture, crude protein, calcium, phosphorus, Ca/P ratio, sodium	
Swine ME _____	\$41.50
Type II plus fat, ash, crude fibre, metabolizable energy	
Poultry ME _____	\$41.50
Type II plus fat, starch, total sugar, metabolizable energy	
NCPS—Non-Forages _____	\$74.00
DM, CP, Ca, P, K, Mg, Na, SP, ADF-CP, ADF, NDF, lignin, NDF-CP, fat, ash, starch Calculations for: TDN, NEL, NEG, NEM, NFC, UIP (est.), RFV, OARDC energy calculations.	
AFL Excel Basic _____	\$34.00
DM, CP, ADF, NDF, Ca, P, K, Mg, Na, TDN, NEL	
AFL Excel Plus _____	\$57.00
DM, CP, SP, UIP, ADF, NDF, Ca, P, K, Mg, Na, TDN, NEL	

NIR Forage Packages

NW40 _____	\$31.00
Crude protein, moisture, soluble protein, ADF-CP, degradable protein (est.), acid detergent fibre, neutral detergent fibre, total digestible nutrients, net energy lactation, net energy gain, net energy maintenance, relative feed value, non-fibre carbohydrates, starch, lignin By Wet Chemistry: Dry matter, calcium, phosphorus, potassium, magnesium, sodium OARDC energy calculations	
NW41 _____	\$35.50
NW40 with copper, zinc and manganese by wet chemistry	
NIR 20 _____	\$24.75
NW40 with all results by NIR	
NIR 40 _____	\$35.00
Fermented forages only CP, SP, ADF-CP, ADF, NDF, lignin, NDF-CP, fat, ash, starch, 24 hr and 48 hr NDF digestibility (for haylage and corn silage) (RFQ where applicable), calcium, phosphorus, potassium, magnesium, pH, digestibility rate, potentially digestible NDF	
Milk 2006 _____	\$30.00
Similar to NCPS Forage. All results using NIR. Package includes NDFD (48hr) as well as calculated milk per tonne and milk per acre.	
Rapid Scissor Cuts _____	\$15.50
DM, by NIR: CP, ADF, NDF, RFV Quick turn around results to evaluate forage stand quality.	
Options (If no base package is selected, a \$10 base fee will apply)	
Starch (NIR) _____	\$4.50
24 hr or 48 hr NDF Digestibility _____	\$5.75
(forages only)	



Additional Forage Packages

AFL Excel Dry Cow _____ **\$35.50**

Forages only

By NIR: crude protein, soluble protein, ADF-CP, degradable protein (est.), acid detergent fibre, neutral detergent fibre, lignin, total digestible nutrients, net energy lactation, non-fibre carbohydrates, relative feed value

By Wet Chemistry: dry matter, calcium, phosphorus, potassium, magnesium, sodium, chloride, sulfur, pH, dietary cationic-anionic balance index

CPM _____ **\$38.50**

Fermented forages only

By NIR: CP, SP, ADF-CP, ADF, NDF, lignin, NDF-CP, fat, ash, starch, 24 hr and 48 hr NDF digestibility (for haylage and corn silage) (RFQ where applicable)

By Wet Chemistry: dry matter, calcium, phosphorus, potassium, magnesium, sodium, copper, zinc, manganese, pH, digestibility rate, potentially digestible NDF

NCPS—Forages _____ **\$61.00**

By NIR: CP, SP, ADF-CP, ADF, NDF, lignin, NDF-CP, fat, ash, starch

By wet chemistry: DM, Ca, P, K, Mg, Na
Calculations for: TDN, NEL, NEG, NEM, NFC, UIP (est.), RFV, OARDC energy calculations.

Equine DE _____ **\$34.25**

NW41 plus total digestible nutrients and digestible energy for horses

Equine Complete _____ **\$41.50**

NW41 plus fat, NDF-CP, ash, starch, sugar, total digestible nutrients and digestible energy for horses.

Digestibility Measurements

Invitro NDFD _____ **\$44.00**
any time point

Invitro NDF Profile _____ **\$155.00**

5 time point graph produced from the NDFD determined at five time points between 0-48 hrs

Forage Digestion Kinetics _____ **\$135.00**

Determination of rate of digestion of fast and slow carbohydrate pools of forages and feeds

Physical Testing

Penn State Particle Size _____ **\$17.00**

For TMR, corn silage, haylage

Physically Effective NDF _____ **\$25.50**

By Penn State Particle Separator (Lammers 1996) Calculated from physically effective factor which has been determined as the sum of the dry matter retained on two sieves of the Penn State particle Separator (for forages) or as the sum of dry matter retained in two sieves of PSPS plus dry matter retained on 1.18mm screen (TMR).

Corn Silage Processing Score _____ **\$36.00**

Percentage of total starch that passes through a 4.75 mm screen

Options (If no base package is selected, a \$10 base fee will apply)

Degradable Protein or UIP _____ \$17.50

ADF-CP _____ \$14.50

NDF-CP _____ \$17.50

Soluble Protein _____ \$15.50

Acid Detergent Fibre _____ \$12.50

Neutral Detergent Fibre _____ \$15.50

Crude Fat _____ \$13.00

Crude Fibre _____ \$13.00

Iron _____ \$ 6.50

Lignin _____ \$16.50

pH _____ \$ 6.50

Sulphur _____ \$16.00

Salt _____ \$ 9.75

Sodium _____ \$ 6.50

Starch (Enzymatic) _____ \$30.00

Molybdenum _____ \$10.00

Nitrate Nitrogen (Nitrates) _____ \$14.00

Metabolizable Energy _____ \$28.00

(for swine or poultry)

Supplies and Forms

If you require sample containers or submission forms, please contact the laboratory.

Our submission forms are also available in a writable PDF format on our website.

Prices are quoted on a per sample basis, unless otherwise noted. Prices do not include applicable taxes.

Prices Effective July 1st, 2010 and are subject to change without notice.

Soil Testing Packages

Soil Packages

AFL Package I _____ **\$13.50**
pH, phosphorus, potassium, magnesium
(includes buffer pH, if pH is less than 6.5)
OMAFRA Recommendations

AFL Package II _____ **\$19.25**
Basic I plus zinc and manganese
OMAFRA Recommendations

AFL Package III _____ **\$19.75**
Basic I plus organic matter, calcium,
base saturation, cation exchange capacity
AFL Recommendations

AFL Package IV _____ **\$33.00**
Basic I plus organic matter, calcium,
base saturation, cation exchange capacity,
zinc, manganese, copper, iron, boron
AFL Recommendations

Options (If no base package is selected, a \$10 base fee will apply)

Boron _____	\$10.00
Total Salt _____	\$ 6.50
Bray Phosphorus _____	\$ 8.00
Sulphate Sulphur _____	\$12.50
Organic Matter _____	\$ 6.50
Zinc and Manganese _____	\$ 6.00
Aluminum _____	\$16.00

Nitrate Nitrogen (12" or 24" depth) _____	\$ 17.50
Atrazine _____	\$135.00
Nematode Count _____	\$ 45.00
Soybean Cyst Nematode _____	\$ 30.00

Physical Analysis

%Sand, %Silt, %Clay _____	\$30.00
Sand Fraction _____	\$40.00
Bulk Density _____	\$50.00
Hydraulic conductivity/permeability _____	\$50.00

Sampling Services

GPS Grid Sampling

Includes: GPS field mapping, soil sampling and soil analysis. Colour maps and soil reports in a binder.

Soil tests: pH, organic matter, phosphorus, potassium, magnesium, calcium, cation exchange capacity, zinc, manganese

Rates on a per acre basis

1 Ha Grids _____ **\$12.75/ac**
(2.47 acres) (330' X 330')

0.40 Ha Grids _____ **\$31.75/ac**
(1.0 acres) (208' X 208')

Field Perimeter Maps _____ **\$ 2.35/ac**
Calculation of workable acres - \$50 minimum charge

Zone Sampling _____ **\$ 6.25/ac**
(Includes maps) plus sample analysis
Samples are taken from pre-determined management zones

Composite Plus Sampling _____ **\$ 3.40/ac**
(Includes maps) plus sample analysis
GPS boundary map with geo-referenced random bulk composite samples every 25 acres.

Regular Sampling _____ **\$ 1.10/ac**
plus sample analysis
Random bulk composite samples pulled every 25 acres. No GPS mapping included.

Home, Lawn and Garden

pH, phosphorus, potassium, magnesium
calcium, sodium, organic matter and
total salts, with lime requirements
and fertilizer recommendations _____ **\$35.00**



Topsoil Package

Top Soil Basic _____ **\$135.00**
 Texture (%sand, %silt, %clay), total salts, pH,
 buffer pH, phosphorus, potassium, magnesium,
 calcium, cation exchange capacity, chloride,
 sodium, sodium absorption ratio, organic matter
 Written recommendations for amendments

Heavy Metals

Heavy Metals _____ **\$110.00**
 Arsenic, cadmium, chromium, cobalt, copper,
 lead, mercury, molybdenum, nickel, selenium,
 zinc

This package is designed for agricultural use in obtaining a
 Certificate of Application from the Ministry of the
 Environment for application of bio-solids.

Fertilizers

N, P₂O₅, K₂O _____ **\$ 82.00**
 Nitrogen, available phosphorus, soluble potash

N _____ **\$ 31.00**
P₂O₅ _____ **\$ 55.00**
K₂O _____ **\$ 55.00**

Agricultural Lime _____ **\$ 40.00**
 Dry matter, calcium, magnesium, neutralizing
 value, particle size, agricultural limestone index.

Plant Tissue Packages

Basic _____ **\$ 17.50**
 Nitrogen, phosphorus, potassium, magnesium,
 calcium

Complete _____ **\$ 24.50**
 Basic plus zinc, manganese, copper, iron, boron

Options (If no base package is selected, a \$10 base fee will apply)
 Sulphur _____ **\$16.00**
 Nitrate Nitrogen _____ **\$14.00**
 Molybdenum _____ **\$ 6.50**
 Chlorides _____ **\$ 9.75**

Green Roof Package

Rooftop Substrate _____ **\$270.00**
 Sand fraction, bulk density, water content, total
 pore space, maximum water capacity, air filled
 porosity, hydraulic conductivity/permeability,
 organic matter, largest grain size

Manure Analysis

Liquid _____ **\$ 35.00**
 Dry matter, nitrogen, phosphorus, potassium, total
 salt, ammonium nitrogen

Dry _____ **\$ 35.00**
 Dry matter, nitrogen, phosphorus, potassium,
 ammonium nitrogen

Options (If no base package is selected, a \$10 base fee will apply)
 Calcium and Magnesium _____ **\$10.00**
 Zinc, Manganese, Copper, Boron _____ **\$13.00**
 Total Salt _____ **\$ 8.00**
 Carbon/Nitrogen Ratio _____ **\$24.00**
 pH _____ **\$ 6.50**

Compost Packages

Compost I _____ **\$ 61.00**
 Dry matter, nitrogen, organic matter, organic
 carbon, C/N ratio, pH, calcium, phosphorus,
 potassium, magnesium, total salt, sodium

Compost II _____ **\$175.00**
 Compost I plus cadmium, cobalt, chromium,
 copper, mercury, molybdenum, nickel, lead,
 selenium, zinc, arsenic, manganese, aluminum

Options (If no base package is selected, a \$10 base fee will apply)
 PCB _____ **\$170.00**
 Foreign Material _____ **\$150.00**
 Solvita Test _____ **\$ 50.00**
 Fecal Coliform _____ **\$ 17.50**
 Salmonella _____ **\$ 18.00**
 CO₂ evolution _____ **\$200.00**
 Available Soil Nutrient _____ **\$ 60.00**
 Available Nutrients by SME _____ **\$ 60.00**

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Greenhouse Packages

Greenhouse Media

Basic _____ **\$23.00**
pH, nitrate nitrogen, phosphorus, potassium, calcium, magnesium, total salt, sodium, chloride, sulphate

Complete _____ **\$38.50**
Basic plus ammonium nitrogen, iron, zinc, manganese, copper, boron, molybdenum, Aluminum

Options (If no base package is selected, a \$10 base fee will apply)
Ammonium Nitrogen _____ \$12.75
Organic Matter _____ \$ 6.50

DNA Multiscan

This analysis can detect the presence of plant pathogenic and beneficial organisms in various mediums quickly and simultaneously. Levels are reported as high, medium, low and not detected.

Basic Scan _____ **\$175.00**
Best suited to monitor and detect the presence of 25 common plant pathogens in soil, water and plant tissue including *Pythium*, *Phytophthora* and *Verticillium*.

Diagnostic Scan _____ **\$225.00**
Best suited as a diagnostic tool; can detect the presence of 66 pathogens and beneficial organisms.

Additional Tests:

Pepino MV & Tomato Canker _____ **\$135.00**
Pepino mosaic virus (Pep MV) and Bacterial Tomato Canker (Cmm) added to Diagnostic DNA scan.

Bacterial Tomato Canker only _____ **\$88.00**

Greenhouse Solution

Complete Water _____ **\$42.00**
For water without fertilizer
Total salt, pH, nitrate nitrogen, phosphorus, potassium, calcium, magnesium, sodium, chloride, sulphate, zinc, molybdenum, manganese, copper, iron, boron, silicon, total hardness, bicarbonate, total dissolved solids

Complete Solution _____ **\$44.00**
For fertilizer solutions
Total salt, pH, nitrate nitrogen, phosphorus, potassium, calcium, magnesium, sodium, chloride, sulphate, zinc molybdenum, manganese, copper, iron, boron, silicon, bicarbonate, ammonium nitrogen



Plant Tissue Packages

Basic _____ **\$17.50**
Nitrogen, phosphorus, potassium, magnesium, calcium

Complete _____ **\$24.50**
Basic plus zinc, manganese, copper, iron, boron

Options (If no base package is selected, a \$10 base fee will apply)

Sulphur _____ \$16.00
Nitrate Nitrogen _____ \$14.00
Molybdenum _____ \$10.00
Chlorides _____ \$ 9.75



Compost Packages

Compost I _____ **\$61.00**

Dry matter, nitrogen, organic matter, organic carbon, C/N ratio, pH, calcium, phosphorus, potassium, magnesium, total salt, sodium

Compost II _____ **\$175.00**

Compost I plus cadmium, cobalt, chromium, copper, mercury, molybdenum, nickel, lead, selenium, zinc, arsenic, manganese, aluminum

Options (If no base package is selected, a \$10 base fee will apply)

PCB	_____	\$170.00
Foreign Material	_____	\$150.00
Solvita Test	_____	\$ 50.00
Fecal Coliform	_____	\$ 17.00
Salmonella	_____	\$ 18.00
CO ₂ evolution	_____	\$200.00
Available Soil Nutrient	_____	\$ 60.00
Available Nutrients by SME	_____	\$ 60.00



Green Roof Packages

Rooftop Substrate _____ **\$300.00**

Sand fraction, bulk density, water content, total pore space, maximum water capacity, air filled porosity, hydraulic conductivity/permeability, organic matter, largest grain size plus complete soil mineral analysis.

Physical Properties _____ **\$134.35**

Total porosity, total air space, water holding capacity, bulk density, moisture.

Fertilizers

N, P₂O₅, K₂O _____ **\$82.00**

Nitrogen, available phosphorus, soluble potash

N _____ **\$31.00**

P₂O₅ _____ **\$55.00**

K₂O _____ **\$55.00**

Microbiological Tests

Total Coliform _____ **\$17.50**

E. Coli _____ **\$22.50**

Faecal Coliform _____ **\$17.50**

Listeria _____ **\$28.00**

Faecal Streptococcus _____ **\$22.50**

Minimum sample size: 250 ml

Sterile bottle required — Microbiological analysis will be on a separate report.

Please submit your sample at the beginning of the week to ensure accurate results.

Supplies and Forms

If you require sample containers or submission forms, please contact the laboratory.

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