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Fraser Analytical Services

Laboratory Services for Agriculture

Services and Pricing Guide

August 2014



History

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 NIR. Utilizing expanded equations, Fraser Analytical is able to provide nutrient evaluations not traditionally available by NIR to the Canadian feed industry.

CVAS was created in 1994 as a small chemistry forage lab serving the local dairy industry in Maryland and south central Pennsylvania. CVAS has grown significantly by providing cutting-edge forage evaluation services in a quick, accurate and cost-effective manner. CVAS was the first to commercially offer the Fermentation Analysis. CVAS was among the first laboratories to offer extensive invitro digestibility services and analysis for the Cornell and CPM nutritional models.

As the largest chemistry-based feed labs in the U.S., CVAS has the resources to offer one of the most comprehensive sets of forage NIR evaluations available to the industry.

Forage and feed characterization ...
... from the field to the feed bunk.



NIR Packages

These options are available on hays, haylages, corn, corn silages, grain silages, small grains, and TMR.

NIR1 16.75

The NIR 1 Analysis includes tests for Dry Matter, Moisture, Crude Protein, ADF Protein, NDF Protein, Soluble Protein, ADF, NDF, Lignin, Starch, Sugar, Fat, Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), and Potassium (K) with pH by traditional method on an ensiled forage. Calculated values are provided for Available Protein, Adjusted Protein, Degradable Protein, NEL, NEM, NEG (OARDC Summative Energy Equation) and NFC.

NIR2 24.50

The NIR 2 is the NIR 1 Analysis with wet-chemistry Minerals - Calcium (Ca), Phosphorus (P), Magnesium (Mg), Potassium (K), Sodium (Na), Iron (Fe), Manganese (Mn), Zinc (Zn) and Copper (Cu).

NIR3 31.50

The NIR 3 is the NIR 2 Analysis plus wet-chemistry on Chloride (Cl) and Sulfur (S).

NIR4 37.50

The NIR 4 is the NIR 2 Analysis plus wet-chemistry on Crude Protein, ADF and NDF.

NIR5 27.00

The NIR 5 is the NIR 1 Analysis plus wet-chemistry on Crude Protein, ADF and NDF.

NIR Plus Option 8.00

Provides 30 hr NDF Digestibility with Kd Rate, an NIR evaluation of Fermentation acids (for ensiled forages) for NIR1-NIR5 as well as Indigestible Fiber, Total Fatty Acids, and Soluble Fiber. This option also includes a soil contamination probability index of Low, Medium or High (not available for corn grain). For Corn Silages, the NIR Plus Option also provides 12 hr NDF digestibility and qualitative assessment of 7 hr starch digestibility.

CPM Option No Charge

Provides Neutral Detergent Residue (NDR) in place of aNDF analysis.

Apparent Nutrient Digestibility by TMR and Fecal Evaluation..... 55.00

Includes a NIR Plus evaluation of a high group TMR and associated fecal matter to generate an evaluation of apparent NDF and starch digestibility.

TMR Mixture Evaluation..... 91.50

(Set of 5 samples analyzed to assess mixer efficiency) NIR analysis with chemistry minerals. This package includes DM, CP, Soluble Protein, ADF, NDF, Lignin, Fat, Starch, Sugar, Ash, Ca, P, Mg, K, Na, Cl, S, Fe, Mn, Zn, Cu.

TMR Control - NIR 49.00

NIR analysis with chemistry minerals. This package includes DM, CP, Soluble Protein, ADF, NDF, 24 hour NDF Digestibility, Lignin, Fat, Starch, Sugar, Ash, Ca, P, Mg, K, Na, Cl, S, Fe, Mn, Zn, Cu. Also included is an evaluation for peNDF, SPS (starch processing score), and the Penn State Particle Size Evaluation. Weekly contract price available.

NIR Packages

Manure..... **26.75**
Dry Matter, Crude Protein, ADF, NDF, lignin, indigestible NDF, starch, ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), and Potassium (K).

Distillers **16.75**
The NIR I Analysis includes tests for Dry Matter, Moisture, Crude Protein, ADF Protein, NDF Protein, Soluble Protein, ADF, NDF, Lignin, Starch, Sugar, Fat, Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), and Potassium (K). Calculated values are provided for Available Protein, Adjusted Protein, Degradable Protein, NEL, NEM, NEG (OARDC Summative Energy Equation) and NFC.

Distillers Plus Option **8.00**
Distillers analysis with qualitative evaluation for Vomitoxin

Soybean Meal..... **16.75**
Dry Matter, Crude Protein, Crude Fiber, Fat, Calcium (Ca), Phosphorus (P).

CVAS NIR Equations

- Legume Forage
- Mixed Forage
- Grass Forage
- Small Grain Forage
- Straw
- Sorghum, Forage Hybrid
- Sorghum, Grain Hybrid
- Barley Silage, High Grain
- Corn Silage
- Corn Silage, BMR
- Pasture
- TMR
- TMR, Finishing
- Low Protein Feed Mix
- Mid Protein Feed Mix
- High Protein Feed Mix
- Manure
- Almond Hulls
- Bakery
- Beet Pulp
- Brewers Grains
- Blood Meal
- Corn Gluten Feed
- Corn Gluten Meal
- Corn Grain
- Corn Grain, fermented
- Corn Distillers
- Feather Meal
- Small Grains
- Soybeans
- Soybeans, heat treated
- Soybean Meal
- Soybean Meal, heat treated
- Soy Hulls

Some equations may not be available at all satellite locations. Constituents predicted will vary by equation. CVAS continues to develop NIR equations and constituents based on industry feedback. If you have an unusual ingredient or nutrient evaluation need, contact us for more information on how we can build calibrations to meet your feed evaluation objectives.

Chemistry Packages

Standard	32.00
Includes Dry Matter, Moisture, Crude Protein, Unavailable Protein (Hay-lages only), Adjusted Protein, Soluble Protein, calculated Degradable Protein (Forages only), Acid Detergent Fiber (ADF), Neutral Detergent Fiber (NDF), Ash, NFC, (Energy values on forages only) TDN, NEL, NEM, NEG, RFV, and Ca, P, Mg, K, Na, Fe, Mn, Zn and Cu with pH on an ensiled forage.	
Standard Plus Energy	\$50.75
Standard Package plus CNCPS option to get Energy Values on Non-Forages.	
CPM Plus	73.50
Includes the Standard Analysis and Lignin, Fat, ADFCP, NDFCP, Chloride, Sulfur, Starch and Sugar. When combined with our Fermentation Analysis a Soluble Fiber is calculated.	
RFV	20.50
Includes Dry Matter, Moisture, Crude Protein, ADF, NDF, calculated RFV (on hays and haylages), Adjusted Protein, NEL, NEM, NEG and TDN.	
Basic NDF	28.50
Dry Matter, Moisture, Crude Protein, ADF, NDF, Minerals (Ca, P, Mg, K, Na, Fe, Mn, Zn, and Cu), pH on ensiled forages, with calculated values for Adjusted Protein, TDN, NEL, NEG and NEM.	
Beef	16.50
Crude Protein, ADF. Includes energy values on forages.	
Minerals Only	25.75
Includes Dry Matter, Ca, P, Mg, K, Na, Fe, Mn, Zn and Cu.	
TMR Diagnostic	145.00
By chemistry; includes DM, CP, Soluble Protein, Ammonia, ADF, NDF, peNDF (physically effective NDF - Mertens) 24 hour NDF Digestibility, Lignin, Fat, Starch, SPS (starch processing score), 7 hour Starch Degradability, Sugar, Ash, Ca, P, Mg, K, Na, Cl, S, Fe, Mn, Zn, Cu, Lactic Acid, Acetic Acid, Butyric Acid and the Penn State Particle Size Evaluation.	
TMR Control – Chemistry	59.00
By chemistry; includes DM, CP, Soluble Protein, ADF, NDF, Starch, Ash, Ca, P, Mg, K, Na, Cl, S, Fe, Mn, Zu, Cu. Also included is an evaluation for peNDF, SPS (starch processing score), and the Penn State Particle Size Evaluation. Weekly contract price available.	
Animal Protein	51.25
Provides Dry Matter, Moisture, Crude Protein, Soluble Protein, Ash, Fat, Ca, P, Cl and S.	
Liquid Sample	
• Provides Dry Matter, Moisture, Crude Protein, Ammonia, Fat, Sugar, Ash, Ca, P, Mg, Na, Fe, Mn, Zn, and Cu as well as TDN, NEL, NEM, and	
NEg.....	38.00
• Above analysis with Karl Fischer moisture - appropriate when volatiles other than moisture are present in the sample.....	
	78.00
Feed Mill Mixer Evaluation	158.00
Evaluation of CP, Ash, Ca, P, Mg, Na, Cl, Fe, Mn, Zn, Cu, on 10 samples. Includes report of analysis including AVG, SD, and COV for nutrients.	
Multistep in vitro Protein Evaluation	110.00/135.00
Based on work by Dr. Debbie Ross and Dr. Mike Van Amburgh. An In Vitro evaluation of feed material is followed by treatment sequentially with acid and enzymes. Rumen availability as well as intestinal digestibility is provided.	

Wet Chemistry Options

Fermentation.....23.75
Includes Dry Matter, Titratable Acidity, Lactic Acid, Acetic Acid, Propionic Acid, Butyric Acid, Iso-butyric Acid, 1,2 - Propanediol, Total VFA, pH, Lactic Acid/VFA ratio, Crude Protein equivalent from Ammonia and Ammonia N as a percentage of total N.

Fermentation Analysis Plus 33.75
Includes Fermentation Analysis as well as a breakdown of Alcohols, Acetates and Lactates.

Fatty Acid Profile.....89.50
Cost and profile vary depending on sample.

Heavy Metals58.00
Includes Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Phosphorus, Potassium, Selenium, Sodium, Sulfur, Thallium, Zinc.

Mold Count 23.75
Mold/Yeast Count

Mold Identification 43.75
Mold/Yeast Count with Mold Identification

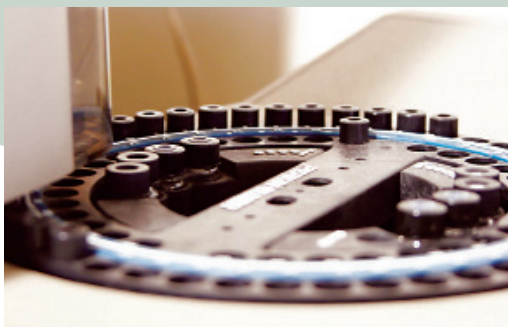
PDI/Urease/KOH84.00
Protein Dispersibility Index (includes PDI, CP, Urease Activity, and KOH)

PDI/Urease.....42.00
Protein Dispersibility Index (includes PDI, CP and Urease Activity)

Selenium.....38.50
(expected levels needed)

Urease Activity22.00

Options



Wet Chemistry Options

Fat (acid-hydrolysis)	34.00
CNCPS	18.75
Adds to the standard package fat, lignin, ADFCP and NDFCP. Allows energy values to be calculated on non-forage samples.	
Micron Particle Size	18.50
Byproduct	23.25
Adds to the standard package fat, lignin, ADFCP, NDFCP, sulfur and chloride.	
DCAD (CL, S)	10.50
Corn Silage Processing Score.	18.50
CSPS	
Physically Effective NDF	18.50
peNDF	
Particle Size	7.50
Particle Size Evaluation (Penn State Separator)	
Molybdenum	10.50



Options

Invitro Analysis

NDF Digestibility24.50

Time points may include 6, 12, 24, 30, 48 or 240 hrs (iNDF).

Other time points available upon request.

NDF Digestibility Time Point Series (6 points) with Rates.....115.00

Starch Digestibility28.50

Time points may include 2, 4, 6, 7, 8, 12, 18, 24, 36, 72 hrs.

Other time points available upon request.

Starch Digestibility Time Point Series (6 points) with Rates 115.00

Dry Matter Digestibility (Invitro)..... 19.00

Time points as determined by client.

Insitu Analysis

CVAS maintains 10-12 cannulated lactating cows. This provides flexibility to hang large numbers of bags for in situ evaluations, at the same time having access to large amounts of rumen fluid for in vitro incubations.

Protein Digestibility88.50

Rumen Undegradable Protein (RUP) at 16 hrs

Dry Matter Digestibility65.00

24, 30, 48 hours

Other time points available upon request.

Dry Matter Digestibility Time Point Series (6 points).....Inquire

Starch Digestibility88.50

Time points may include 2, 4, 6, 7, 8, 12, 18, 24, 36 or 72 hrs.

Other time points available upon request.

Starch Digestibility Time Point Series (6 points) with Rates..... Inquire

NDF Digestibility88.50

Proximates

TAG 1	24.50
Includes Dry Matter, Moisture, Crude Protein, Crude Fat and Crude Fiber	
TAG 2	34.00
Includes Tag I plus Ash, Ca and P.	
TAG 3	42.00
Includes Tag I plus Ash and Ca, P, Mg, K, Na, Fe, Mn, Zn, Cu.	
TAG 4	21.00
Includes Dry Matter, Moisture, Ash, Ca and P.	
Protein Only	5.75
Protein (combustion)	
Moisture Only	6.00
Moisture (Moisture loss drying at 135°C for 2 hrs)	
Fat (ether extraction)	9.50
Fat (acid hydrolysis)	34.00
Crude Fiber	8.50
Ash	5.75
Karl Fischer Moisture	45.00

Proximates



877-326-8188

Amino Acids

Cystine, Methionine..... 77.50
Cystine, Methionine

Cystine, Methionine, Lysine plus 9 more 102.50
Cystine, Methionine, Lysine, Aspartic Acid, Threonine, Glutamic Acid, Proline, Glycine, Alanine, Valine, Isoleucine and Leucine.

Full Profile w/o Tryptophan..... 138.00
Cystine, Methionine, Lysine, Aspartic Acid, Threonine, Glutamic Acid, Proline, Glycine, Alanine, Valine, Isoleucine, Leucine, Taurine, Hydroxyproline, Serine, Lanthionine, Tyrosine, Phenylalanine, Hydroxylysine, Ornithine, Histidine and Arginine,

Full Profile..... 160.00
Cystine, Methionine, Lysine, Aspartic Acid, Threonine, Glutamic Acid, Proline, Glycine, Alanine, Valine, Isoleucine, Leucine, Taurine, Hydroxyproline, Serine, Lanthionine, Tyrosine, Phenylalanine, Hydroxylysine, Ornithine, Histidine, and Arginine and Tryptophan.



Amino Acids

Components

Please add \$6.00 processing charge to each sample not run with a package.

Acid Insoluble Ash	24.50
ADF	5.75
ADFom (ash free)	8.75
ADFCP	5.75
Ammonia Nitrogen	10.50
Ash	5.75
Barium	36.00
Boron	10.00
Chloride	6.00
Crude Fiber	8.50
Cobalt	36.00
Crude Protein	5.75
Deg. Protein (strep. Griseus)	11.00
Dry Cow Option	10.50
Chloride, Sulfur	
Dry Matter	6.00
Elemental Iodine	75.50
Ergonovine	105.00
Fat (Acid-Hydrolysis)	34.00
Fat (Ether Extraction)	9.50
Free Fatty Acids	26.50
Gossypol	485.50
Initial Peroxide (on liquid materials)	29.50
Initial Peroxide (on dry materials)	90.00
Iodine Value	50.00
Karl Fischer Moisture	45.00
KOH	46.00
Lead	36.00
Lignin	9.50
Micron Particle Size	18.50
Molybdenum	10.50
Moisture Only	6.00
Moisture (Moisture loss drying at 135°C for 2 hrs)	

Components

aNDF	5.75
aNDFom (ash-free)	8.75
NDF-CP	5.75
NDR	5.75
Nitrate	10.50
Non-Protein Nitrogen (NPN)	27.00
Particle Size Evaluation (Penn State Separator)	7.50
Pepsin Digestibility	46.00 (0.2% pepsin as per AOAC-includes crude protein determination)
Ph	5.50
Protein Only	5.75 Protein (combustion)
Protein Dispersibility Index	42.00 (includes PDI, CP and Urease Activity)
Prolamin	18.00
Prussic Acid (Cyanide)	55.00
Salt (as chloride)	5.75
Selenium	38.50 (expected levels needed)
Soluble Fiber (M. B. Hall)	54.50
Soluble Protein	5.75
Starch	11.50
Starch (Gelatinized)	58.00
Starch (Ungelatinized)	8.00 Enzyme available
Sugar	9.50
Sulfur	5.75
Trypsin Inhibitor	97.50
Urea	27.00
Urease Activity	22.00
Vitamin A	78.00
Vitamin D	120.00
Vitamin E	120.00
5/6 Carbon Sugar	27.00

Mycotoxins

Mycotoxin Screen

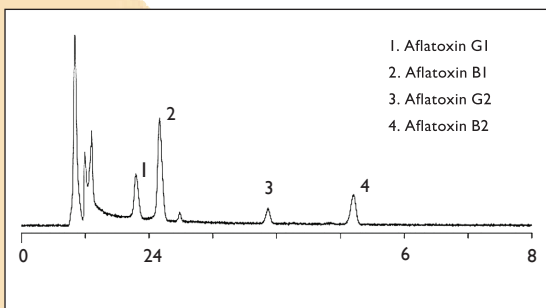
Screen includes Aflatoxin, B1, B2, G1, G2, Deoxynivalenol, Zearalenone, 15 Acetyl-Don, 3 Acetyl-Don and T-2 Toxin

With DON by GC	67.75
With DON by HPLC	84.50

Mycotoxins, per Toxin

DON by GC	38.50
DON by HPLC.....	55.00
DON by Elisa.....	25.00
Aflatoxin by HPLC.....	38.50
Aflatoxin by ELISA.....	25.00
Zeralenone by HPLC	68.75
Zeralenone by ELISA	25.00
Fumonisin by HPLC.....	68.75
Fumonisin by ELISA.....	25.00
Ochratoxin by HPLC	68.75
Ochratoxin by ELISA	25.00
T2 by ELISA	25.00

Mycotoxins



Water Analysis

As a provider of diagnostic services to animal agricultural, CVAS provides livestock suitability evaluations of water. Data is available by web access for printing, sorting and summarization. Do you know if water quality is an issue on your operation?

Nitrate Nitrogen and pH..... 13.00

Livestock Suitability Package35.50

Includes pH, hardness, total dissolved solids,
Ca, P, Mg, K, Na, Fe, Mn, Zn, Cu,
chlorides, sulfate and nitrate

pH 5.50

Alkalinity 11.00

Manure Analysis

CVAS is certified by the Minnesota Department of Agriculture for manure testing. With increasing emphasis on stewardship of resources, including implementation of nutrient management planning, manure testing is becoming a routine evaluation for animal production facilities. Our web-based data management system offers tools for efficient administration of manure testing data.

Best Test Package 1.....34.50

Total Nitrogen, P₂O₅, K₂O, NH₃, DM, Density

Best Test Package 2.....29.00

Total Nitrogen, P₂O₅, K₂O, NH₃, DM

Best Test Package 3.....26.00

Total Nitrogen, P₂O₅, K₂O, NH₃

Water Soluble Phos.....10.50

Minerals (Ca, Mg, Na, Fe, Mn, Zn, & Cu).....7.50

Volatile Solids.....5.50

pH.....5.50

Total Carbon (C/N Ratio).....5.50

Lagoon Analysis.....46.00

pH, Nitrogen, Total Solids, Minerals

Plant Tissue Analysis

Standard.....24.00

N, P, K, Ca, Mg, Na, S, Fe, Mn, Zn, Cu, B, Mo

Trace Minerals.....30.00

Cd, Co, Pb, Mo, Ni

Nitrate Nitrogen.....10.50

Total Nitrogen.....5.75

Total Carbon.....9.50

Total Sulfur.....5.75

Samples run for Nitrate Nitrogen, Nitrogen, Carbon, or Sulfur without a mineral package will include a \$6.00 processing charge.

Equine Services

Understanding equine nutrition is of critical importance to a horse's health and well-being and has radically changed in recent year. As we learn more about how horses digest and utilize nutrients from feed, feed choices have broadened and changed. The importance of sugars, fructans, and fiber digestibility is better recognized.

Equine Basic.....20.25

This NIR package includes Dry Matter, Moisture, Digestible Energy, NSC, NFC, RFV, Starch, Sugar (WSC), Protein, ADF, NDF, NDFom, Fat, Fatty Acids (total), Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), and Potassium (K).

Equine Lancer.....28.00

This package included Dry Matter, Moisture, Digestible Energy, NSC, NFC, RFV, Starch, Sugar, Protein, ADF, NDF, NDFom, Fat, Fatty Acids (total), and Ash by NIR. Chemistry minerals are provided, superior analytically to NIR predictions, including Calcium (Ca), Phosphorus (P), Magnesium (Mg), Potassium (K), Sodium (Na), Iron (Fe), Manganese (Mn), Zinc (Zn), and Copper (Cu).

Equine Chemistry Basic.....54.25

This package is similar to the Equine Lancer package but uses reference chemistry methods in place of more economical NIR. It provides Dry Matter, Moisture, Digestible Energy, NSC, NFC, RFV, Starch, Sugar, Protein, ADF, NDF, Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), Potassium (K), Sodium (Na), Iron (Fe), Manganese (Mn), Zinc (Zn), Molybdenum (Mo), and Copper (Cu).

Equine Chemistry Complete.....77.00

This package includes Dry Matter, Moisture, Digestible Energy, NSC, NFC, RFV, Starch, Sugar, Protein, ADF, NDF, Lignin, Fat, Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), Potassium (K), Sodium (Na), Sulfur (S), Chloride (Cl), Iron (Fe), Manganese (Mn), Zinc (Zn), Copper (Cu), and Molybdenum (Mo).

Analyses important to trouble shooting equine nutritional problems are listed on other pages. Various nutritional components are listed on pages 11-12, mycotoxins on page 13, mold and yeast evaluations on page 6, and water on page 14.

Turn-around Time

Wet-chemistry results are returned three to five days following receipt with exceptions for special analyses. Results on NIRI/NIRI+ samples received by noon are posted within 24 hours.

Accuracy and Precision

FAS and CVAS are certified by the National Forage Testing Association. CVAS also participates in the AAFCO, MAP, BIPEA and SQT check sample programs and collaborates with other commercial and university labs. Multiple internal quality control samples are run daily and all results are reviewed by trained personnel before posting.

Pricing

The intent of this Services and Pricing Guide is to illustrate to our current and prospective clients the services that CVAS provides. To meet your needs, we are continually expanding our services through new forage characterization services, adoption of cutting-edge information technology, and unsurpassed data management services. Please use this as a reference and check www.foragelab.com for the most up-to-date services and pricing. Prices are as of August 1, 2014, and are subject to change without notice.

Other Charges

Special handling or sample prep.....	up to \$10.00
Sample forwarding fee	\$6.00
Archival Report Charge (per sample up to 5)	\$2.50

After 5 samples, \$40.00/hour in 15 minute (\$10.00) increments.

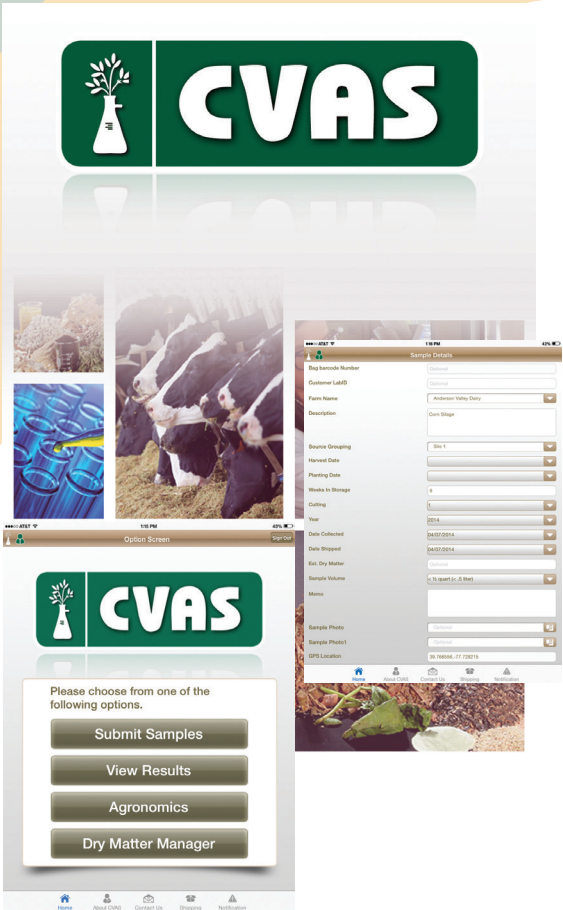
Billing

CVAS bills twice monthly. Terms are generally 20 days for volume discounts and net 30 for everything else. We provide an itemized invoice detailing charges by sample. We will bill third parties.

For more information pertaining to each individual assay, please visit our website www.foragelab.com or email us at mail@foragelab.com.

CVAS Mobile App

Our FORAGELAB app is a convenient way to submit and view sample information via your mobile device. The app is available on the iPhone, iPad and Android platforms. Clients are able to retrieve results almost immediately after the analysis is complete. In addition, you can ensure prompt handling of your samples by submitting them through prompt handling of your samples by submitting them through the FORAGELAB app. You can include detailed descriptions of your sample, select the analysis you require and even take a source picture of the sample.



CVAS Mobile App Options

CVAS Mobile App Options

In addition to providing opportunity for logging of sample information and access to data, the CVAS Mobile App offers several other unique features:

- **Precipitation Monitor**

This function allows the user to access current and historical precipitation data for your current GPS location or for a designated location.

- **Heat Index Monitor**

This heat index function provides the user the ability to see the current and historical heat index data for your current GPS location or for a designated location.

- **Dry Matter Manager**

Newest of our mobile apps allows the consultant or individual farm manager to input oven or microwave dry-down data for calculating dry matters on single or multiple replications of a forage or feed mix. These data are saved for defined forage sources over time to allow the user to track changes and generate averages for use in adjusting rations.

CVAS Web-based Sample Logging

CVAS has established the ability for those submitting large numbers of samples at one time to pre-log samples and to bring a spreadsheet of data into our LIMS system. This insures data integrity as there is no manual logging of sample information and description information can be returned with results exactly as the user desires.

CVAS Web-based Data Review and Management System

CVAS continues to provide the most extensive internet-based data management programs available to the industry. Our on line data management system not only gives you historical access and unique reporting capabilities, but allows you to “mine” valuable statistical information from your samples.

The new website provides co-branded reporting, custom report formats, client logging of samples with user-defined data fields, and support for multiple languages. Samples can now be logged by the user, minimizing the potential for transcription errors and providing additional fields for descriptive data to be associated with the samples.

Results are available by website, fax, e-mail (numerous formats available for importing into most nutritional models) as well as by mail.

Viewing Sample Information & Analysis Results Report [Create Excel template](#) [Create Report template](#)

Select Report: Analytical Report, Forage Analysis Report, Composite Analysis Report, Custom Book Report

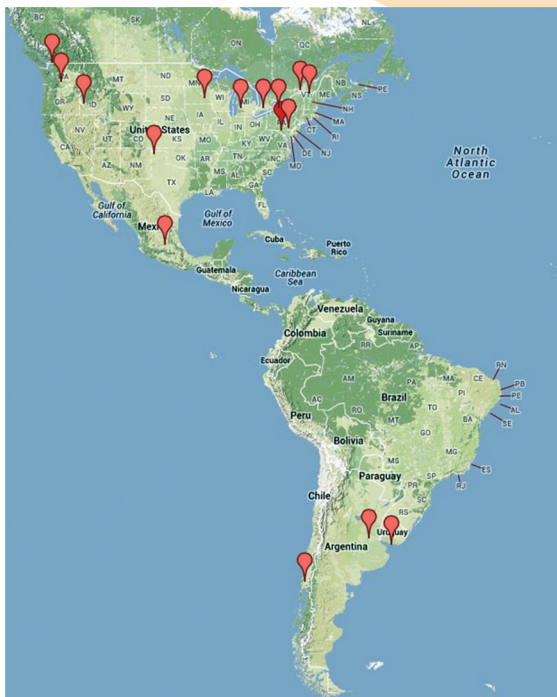
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Reset filters

Status	Lab ID	Acc Last Name	Farm Name	Sample Description	Feed Class	Arrived	Completed	Tools
<input type="checkbox"/> All	<input type="text"/> Search <input type="text"/> Code From <input type="text"/> Code To <input type="button" value="Search"/>							
<input checked="" type="checkbox"/>	Pending	1587026	JONES	TEST CLARON	CORN SLAGE	02/13/2014	02/13/2014	
<input checked="" type="checkbox"/>	Pending	1587082	JONES	FBI	CORN SLAGE	02/12/2014	02/13/2014	
<input checked="" type="checkbox"/>	Pending	1590083	JONES	D	CLARON TEST SUB-MISSON	02/27/2014	02/28/2014	
<input type="checkbox"/>	Completed	1340713	JONES	SUNSHINE TRIALS	BARLEY SLAGE	04/06/2014	04/06/2014	04/07/2014
<input checked="" type="checkbox"/>	Completed	1340713	JONES	ANDERSON VALLEY	CORN SLAGE - BUNK 2	04/06/2014	04/06/2014	04/07/2014
<input checked="" type="checkbox"/>	Completed	1340715	JONES	MEDON SIC HILLS DAIRY	BAR CORN SLAGE	04/06/2014	04/06/2014	04/07/2014
<input checked="" type="checkbox"/>	Completed	1340717	JONES	WEAVER FALLS	CORN SLAGE - BUNKER 2	04/06/2014	04/06/2014	04/07/2014
<input checked="" type="checkbox"/>	Completed	1340718	JONES	O'BRIEN RIDGE	BAR CORN SLAGE	04/06/2014	04/06/2014	04/07/2014
<input type="checkbox"/>	Completed	1340719	JONES	BARTON BRUNNEN	CORN SLAGE	04/06/2014	04/06/2014	04/07/2014

The CVAS Affiliate Network

Building on our successful integration of broad chemistry evaluation services, NIR applications, and web-based data management services, CVAS is able to support others in the business of providing analytical services to the feed industry. Our approach provides not just NIR equations but technical support, including definition of needs, equipment recommendations, assisting in the establishment of operations, ongoing technical support, quality control, software, and web-based data management. We support affiliate labs around the globe!



CVAS Affiliate Network

Data Services

CVAS supports research institutions and industry by providing nutrient data on forages and feeds with data available back as far as 15 years and spanning U.S. and international geographies. We work with clients on custom analytical needs and have the ability to utilize our database to quickly generate summaries and comparisons of analyses.

Data is only provided in an anonymous fashion that does not compromise any individual business or clients' privileged information.

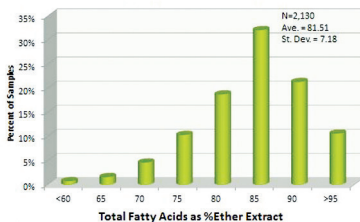
Below are examples of relationships that can be developed from evaluation of data:

Industry Makes Advances in Corn Silage Processing (CVAS Data, 2006 to 2013)

Corn Silage Processing Score

Crop Year	Number	Average	Percent Optimum	Percent Poor
2006	97	52.8	8.2	43.3
2007	272	52.3	9.2	37.9
2008	250	54.6	5.2	34.8
2009	244	51.1	6.1	48.0
2010	373	51.4	5.9	43.4
2011	726	55.5	12.3	33.1
2012	871	60.8	14.8	19.9
2013	2658	64.6	36.0	12.9

TMR Fatty Acid Data, TMR 24% to 38% NDF (CVAS, 2013 – 2014)





Our Mission:

Fraser Analytical Services, through our partnership with Cumberland Valley Analytical Services, is committed to providing innovative and cost-effective forage and feed laboratory testing for the agriculture industry. Combining the most comprehensive array of forage characterization services, cutting-edge information technology and outstanding customer focus, we will become the global leader in feed-stuff analysis and analytics as we support world food production needs.

