



## Announcing the CVAS

# Feed Degradation Modeling System (FDMS)!

**This system was developed in the last 18 months to create a more accurate system for assessing forage and feed digestibility characteristics. Elements of the FDMS system include:**

- All new in vitro fiber digestibility evaluations were developed for key forage classes
- All evaluations were run on an organic matter (ash-free) basis
- Evaluations were run for 14 time points on forages selected for the calibration sets
  - 0, 2, 4, 8, 12, 16, 20, 24, 30, 36, 48, 96, 120, and 240 hours
- Selection of feeds was based on statistical evaluation of thousands of candidate samples in each forage and feed class to develop a linear distribution of spectral characteristics. This creates much improved accuracy across the full range of feed quality and maturity.
- Resulting in vitro chemistry is modeled to test the data as an integrated degradation curve.

This tested and modeled data is then used for inputs to the NIR calibration.

- The resulting NIR models for fiber digestibility are the most complete and robust for determination of fiber degradation characteristics available to the feed industry!

### What does FDMS mean to you as a nutritionist?

- You will be receiving the most consistent NIR NDFD and uNDF evaluations available!
- Our Plus Option will provide NDFDom and uNDFom data based on this system for 12, 24, 30, 48, 120, and 240 hours.
- The 48-hour NDFD data is provided based on the recommendation of the new NASEM (NRC).
- Improved precision allowing for more accurate differentiation of forage and feedstuff quality.
- A calculated integrated rate will be made available.
- The rate and pool data will be more accurate than what is calculated in CNCPS and

there will be opportunity in the future to incorporate this directly into CNCPS.

- For those requesting the FDMS Option, we will provide:
  - Actual uNDF data for 14 degradation points
  - Modeled uNDF data for 14 degradation points
  - Pool sizes and rates as well as lag and theoretical uNDF
  - Statistics on the quality of the model relating actual and modeled time points
  - The ability to accurately focus on early time-point characteristics not available until now!

### What is the cost?

- For those choosing the Plus Option, the cost of the improved data will be included in the Plus Option.
- For those requesting the full FDMS report, the cost will be \$10.00 as part of a report with the Plus Option. For those requesting the report as a “stand-alone” option this cost is \$15.00 + a processing fee.

**Go to [www.foragelab.com/FDMS](http://www.foragelab.com/FDMS) for more information about this analytical opportunity!**