



PRESS RELEASE

Forage analysis with an NIR spectrometer in the field or on the farm – fast, accurate, and non-destructive

Lawrence, MA – June 12, 2014 – NIR spectroscopy has been used for decades in the lab to analyze forages for both producers and users. Field portable NIR spectrometers can bring the benefits of NIR analysis to the field/farm for better testing in real-time, on-site.

With a field portable NIR spectrometer from SPECTRAL EVOLUTION, for example a full range 350-2500nm PSR-3500 spectroradiometer, or a PSR-1100 spectroradiometer with a 350-1100nm spectral range, substantial daily variability in dry matter content (DM), crude protein, starch, acid detergent fiber (ADF), neutral detergent fiber (NDF), crude fat, and ash can be analyzed. For both the producer and user, this information can lead to a better mix, or total mixed ration, that will result in more efficient feeding and healthier dairy cattle and other livestock.

The importance of high quality forage (hay, haylage, silage, straw, fodder, and pasture) can't be overestimated. For example, the drought in 2012 highlighted the problems of drought-stressed forage both at harvesting and when fed to livestock. Proper balancing of this forage with supplemental feed was crucial to keeping livestock healthy.

Field portable NIR spectroradiometers from SPECTRAL EVOLUTION can deliver the following advantages to producers and users of forage:

- Samples taken directly in the field or at the silo for greater accuracy
- Real-time results and the ability to do spot testing
- No sample prep, no shipment to the lab, no waiting for results
- Track forage trends and plan for additional supplement use
- Test as weather and/or storage conditions change
- Save scans as ASCII files for use with chemometrics programs for additional analyses
- With the PSR-3500 and EZ-ID, build your own custom library that applies to your vendors, conditions, and animals

For more information: http://www.spectralevolution.com/applications_forage.html

About SPECTRAL EVOLUTION

Established in 2004, SPECTRAL EVOLUTION is a leading manufacturer of laboratory and handheld portable spectrometers, spectroradiometers and spectrophotometers. SPECTRAL EVOLUTION spectrometers are used worldwide for many mission-critical lab and field applications in mining, remote sensing, vegetative studies, ground truthing, environmental and climate studies, developing satellite calibrations, and more, due to their reliable, robust, rugged design and user-friendly one-touch features.

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