

# FEED AND FORAGE ANALYSIS REQUEST FORM

Date: \_\_\_\_\_ Account: \_\_\_\_\_ Location: \_\_\_\_\_

Feeder: _____				
Feeder County: _____	Storage Type	Treated?	Cutting	Processed?
Sample ID #1: _____		Yes or No		
Sample ID #2: _____		Yes or No		
Sample ID #3: _____		Yes or No		

### NEAR INFRARED REFLECTANCE (NIR) SPECTROSCOPY ANALYSIS PACKAGES

①	②	③	<b>Comprehensive Nutrition:</b> TTNDFD (Combs, 2012), 0, 3, 7, & 16 hr. <i>in situ</i> Starch D, Dynamic NDF $k_d$ , Dynamic Starch $k_d$ , Moisture, Protein, ADICP, NDICP, ADF, aNDF/aNDFom, Fat (EE), Total & Individual Fatty Acids, Ash, Lignin, Soluble Protein, Sugar (WSC), Starch, Ca, P, K, Mg, S, pH, Milk 2006 Energy Calcs, Fermentation Products, CNCPS Inputs, & Total Amino Acids
①	②	③	<b>Dynamic CNCPS:</b> TTNDFD (Combs, 2012), 7 hr. <i>in situ</i> Starch D, Dynamic NDF $k_d$ , Dynamic Starch $k_d$ , Moisture, Protein, ADICP, NDICP, ADF, aNDF/aNDFom, Fat (EE), Ash, Lignin, Soluble Protein, Sugar (WSC), Starch, Ca, P, K, Mg, S, pH, Milk 2006 Energy Calcs, Fermentation Products, & CNCPS v6.5 inputs
①	②	③	<b>Dynamic NDFD:</b> TTNDFD (Combs, 2012), Dynamic NDF $k_d$ by using 24, 30, & 48 hr. NDFD, Moisture, Protein, ADICP, NDICP, ADF, aNDF/aNDFom, Fat (EE), Ash, Lignin, Soluble Protein, Sugar (WSC), Starch, Ca, P, K, Mg, S, pH, Milk 2006 Energy Calcs, and Fermentation Products
①	②	③	<b>Corn Grain Digestibility:</b> (HMCS and Snaplage only) 7 hr. <i>in situ</i> Starch D, Moisture, Protein, ADICP, NDICP, ADF, aNDF/aNDFom, Fat (EE), Ash, Lignin, Soluble Protein, Sugar (WSC), Starch, Ca, P, K, Mg, S, pH and NRC 2001 Energy Calcs
①	②	③	<b>NDF Digestibility:</b> Choose 24, 30, <b>OR</b> 48 hr. time point (default is 48 hr.), Moisture, Protein, ADICP, NDICP, ADF, aNDF/aNDFom, Fat (EE), Ash, Lignin, Soluble Protein, Sugar (WSC), Starch, Ca, P, K, Mg, S, pH, & Milk 2006 Energy Calcs
①	②	③	<b>NIR Extra:</b> Moisture, Protein, ADICP, NDICP, ADF, aNDF/aNDFom, Fat (EE), Ash, Lignin, Soluble Protein, Sugar (ESC), Starch, Ca, P, K, Mg, S, pH & NRC 2001 Energy Calcs. (Starch analysis on corn silage, small grain silage, or corn grain only.)
①	②	③	<b>Forage Based Dairy TMRs:</b> Moisture, Protein, ADICP, NDICP, ADF, aNDF/aNDFom, Fat (EE), Ash, Lignin, Soluble Protein, Sugar (ESC), Starch, & NRC 2001 Energy Calcs
①	②	③	<b>Basic NIR:</b> Moisture, Protein, ADICP, ADF, aNDF/aNDFom, Soluble Protein, Sugar (ESC), Starch, Ca, P, K, Mg, S, & pH (Starch analysis on corn silage, small grain silage, or corn grain only.)
①	②	③	<b>Complete Equine Nutrition:</b> Sugar (WSC), Digestible Energy KER, Moisture, Protein, ADICP, NDICP, ADF, aNDF/aNDFom, Soluble Protein, Starch, Ca, P, K, Mg, S, & pH
①	②	③	<b>Distiller's Grains:</b> 16 hr. Rumen <i>in situ</i> RUP and DMD, Moisture, Protein, ADICP, NDICP, ADF, aNDF/aNDFom, Fat (EE), Ash, Lignin, Soluble Protein, Starch, pH, & NRC 2001 Energy Calcs
①	②	③	<b>UW Feed Grain Evaluation</b>
①	②	③	<b>Ca, P, K, Mg, S, Na, &amp; Cl (DCAD) by ICP</b>
①	②	③	<b>Commodities by NIR:</b> Moisture, Protein, ADF, NDF, Fat (EE) & Ash
①	②	③	<b>Total Minerals (DCAD) by ICP</b>
①	②	③	<b>Commodities by NIR with Starch:</b> Moisture, Protein, ADF, NDF, Fat (EE), Ash & Starch

### WET CHEMISTRY ANALYSIS PACKAGES

### WET CHEMISTRY ANALYSIS ADD-ON MENU

①	②	③	<b>TMR-D:</b> Moisture, Protein, aNDF, Fat, Ash, Starch, TMR & Digestibility measures	①	②	③	<b>Protein</b>
①	②	③	<b>Moisture/Protein</b>	①	②	③	<b>ADF</b>
①	②	③	<b>Base Mix Check:</b> Moisture, Protein, Ca, P, K, Mg, S, & Cl	①	②	③	<b>NDF</b>
①	②	③	<b>Simple Feed:</b> Moisture, ADF, Ca, P, K, Mg, S, & Cl	①	②	③	<b>Crude Fiber</b>
①	②	③	<b>Simple Feed Plus NDF:</b> Moisture, Protein, ADF, NDF, Ca, P, K, Mg, S, & Cl	①	②	③	<b>Soluble Protein</b>
①	②	③	<b>Core Nutrient:</b> Moisture, Protein, ADF, aNDF, Fat, Ash, Ca, P, K, Mg, S & Cl	①	②	③	<b>Lignin</b>
①	②	③	<b>Core Nutrient Plus Energy:</b> Moisture, Protein, ADFCP, NDICP, ADF, aNDF, Fat, Ash, Lignin, Starch, Ca, P, K, Mg, S, Cl, & NRC 2001 Energy Calcs.	①	②	③	<b>Fat</b>
①	②	③	<b>Commodity Core Nutrient and Energy Check:</b> Moisture, Protein, ADICP, NDICP, ADF, aNDF, Fat, Ash, Lignin, Ca, P, K, Mg, S, Cl, & NRC 2001 Energy Calcs.	①	②	③	<b>Nitrate</b>
①	②	③	<b>Sugar by Difference:</b> Moisture, Protein, aNDF, Fat, Ash, Ca, P, K, Mg, S, & Cl	①	②	③	<b>Starch</b>
①	②	③	<b>Swine Energy Analysis:</b> Moisture, Protein, ADF, aNDF, Fat, Ash, Ca, P, K, Mg, S, & Cl	①	②	③	<b>Sugar</b>
①	②	③	<b>Simple Equine Analysis:</b> Sugar WSC, ADF, NDF, Fat, Ash, Ca, P, K, Mg, S, & Cl	①	②	③	<b>Individual Sugars</b>
①	②	③	<b>TMR Mixer Accuracy:</b> (4 samples) Moisture, Protein, Salt, Ca, P, K, Mg, S, & Cl	①	②	③	<b>Salt (Calculated from Chloride)</b>
①	②	③	<b>Mixer Evaluation:</b> (10 samples) Moisture, Zn, & Mn	①	②	③	<b>Non-Protein Nitrogen</b>
①	②	③	<b>Major Minerals:</b> Moisture, Ca, P, K, Mg, S, & Cl	①	②	③	<b>Ash</b>
①	②	③	<b>Total Minerals:</b> Moisture, Ca, P, K, Mg, S, Na, Zn, Mn, Cu, Fe, Al, & Cl	①	②	③	<b>pH</b>
①	②	③	<b>Fecal Starch with Total Tract Starch Digestibility</b>	①	②	③	<b>Selenium</b>
①	②	③	<b>3 or 7 hr. Rumen <i>in situ</i> Starch Digestibility</b>	①	②	③	<b>Molybdenum</b>
①	②	③	<b>Crude Fiber (Only)</b>	①	②	③	<b>Feed/Grain Particle Size</b>
①	②	③	<b>Yeast and Mold Count</b>	①	②	③	<b>Kernel Processing Score</b>
①	②	③	<b>Yeast and Mold Count with Species Identification</b>	①	②	③	<b>Feed/Grain Particle Size</b>
①	②	③	<b>Rapid Mold and Yeast Count (No Identification)</b>	①	②	③	<b>3, 7, or 16 hr. Rumen <i>in situ</i> Starch D (circle one)</b>
①	②	③	<b>Toxin (Circle toxin):</b> DON, Zearalenone, T-2, Fumonisin, Aflatoxin, & Ochratoxin	①	②	③	<b>24, 30, or 48 hr. <i>in vitro</i> Fiber D (circle one)</b>
①	②	③	<b>Fusarium Screen (13 Toxins):</b> Identifies toxins produced by Fusarium	①	②	③	<b>16 hr. Rumen <i>in situ</i> RUP</b>
①	②	③	<b>Basic Screen (12 Toxins):</b> Identifies toxins produced by Fusarium and Aflatoxin	①	②	③	<b>Protein Intestinal Digestion</b>
①	②	③	<b>Comprehensive Mycotoxin Screen (19 Toxins):</b> with Basic, Fusarium, & Citrinin	①	②	③	<b>3-Step 16 hr. RUP and Intestinal Digestibility</b>
Additional Comments: _____				①	②	③	<b>Ross/Multi-Step Protein Evaluation</b>
				①	②	③	<b>Fermentation Products:</b> pH, NH <sub>3</sub> -N, 6 Fermentation Acids, Ethanol, & Fermentation Shrink (DM Loss, Goeser et al. 2015)
				①	②	③	<b>Advanced Fermentation Products:</b> pH, NH <sub>3</sub> -N, 6 Fermentation Acids, 6 Fermentation Alcohols & Fermentation Shrink (DM Loss, Goeser et al. 2015)

Representative: \_\_\_\_\_