



# CUMBERLAND VALLEY ANALYTICAL SERVICES

"Laboratory services for agriculture ... from the field to the feed bunk"

Farm: **DEVRY FORAGES**  
Desc: **#941 FESCUE GRASS COMBINED 630X**  
Submitter: **CVAS, ANALYSIS**  
Account: **CVAS ANALYSIS**

Copies to: **NEELS, PETE**  
**BOON, LAMBERT**

Lab ID: **39602 061**  
Sampled: **08/31/2026**  
Arrived: **09/01/2026**  
Completed: **09/01/2026**  
Reported: **09/01/2026**

## #941 FESCUE GRASS COMBINED 630X

### SAMPLE INFORMATION

Lab ID: 39602 061 Version: 1.0  
Feed Type: GRASS FORAGE Crop Year:  
Package: BASIC NIR Cutting#:

### NIR ANALYSIS RESULTS

Moisture 6.8  
Dry Matter 93.2

### PROTEINS

|                           | % SP | % CP | % DM |
|---------------------------|------|------|------|
| Crude Protein             |      |      | 15.0 |
| Adjusted Protein          |      |      | 15.0 |
| Soluble Protein           |      | 35.9 | 5.4  |
| Ammonia (CPE)             | 5.4  | 1.9  | 0.29 |
| ADF Protein (ADICP)       |      | 8.6  | 1.29 |
| NDF Protein (NDICP)       |      | 29.3 | 4.40 |
| NDR Protein (NDRCP)       |      |      |      |
| Rumen Degr. Protein       |      | 68.0 | 10.2 |
| Amino Acid Protein, Total |      | 60.0 | 9.00 |
| Lysine                    |      |      |      |
| Methionine                |      |      |      |
| Isoleucine                |      |      |      |
| Leucine                   |      |      |      |
| Histidine                 |      |      |      |
| Valine                    |      |      |      |
| Arginine                  |      |      |      |

### FIBER

|                            | %NDFom | NDFom %DM | % NDF | % DM |
|----------------------------|--------|-----------|-------|------|
| ADF                        |        |           | 65.8  | 43.5 |
| aNDF                       |        | 59.5      |       | 66.1 |
| NDR (NDF w/o sulfite)      |        |           |       |      |
| Crude Fiber                |        |           |       |      |
| Lignin                     |        |           | 7.25  | 4.79 |
| NDF Digestibility (12 hr)  | 35.9   | 21.4      | 32.4  | 22.0 |
| NDF Digestibility (24 hr)  |        |           |       |      |
| NDF Digestibility (30 hr)  | 55.8   | 33.2      | 50.2  | 33.1 |
| NDF Digestibility (72 hr)  |        |           |       |      |
| NDF Digestibility (120 hr) | 64.1   | 38.1      | 57.6  | 38.0 |
| NDF Digestibility (240 hr) | 67.4   | 40.1      | 60.6  | 40.0 |
| uNDF (12 hr)               | 64.1   | 38.1      |       |      |
| uNDF (24 hr)               |        |           |       |      |
| uNDF (30 hr)               | 44.2   | 26.3      | 49.9  | 32.9 |
| uNDF (120 hr)              | 36.0   | 21.4      | 42.4  | 28.0 |
| uNDF (240 hr)              | 32.6   | 19.4      | 39.4  | 26.0 |

### CARBOHYDRATES

|                          | % Fat | % Starch | % NFC | % DM |
|--------------------------|-------|----------|-------|------|
| Silage Acids             |       |          |       |      |
| ESC, Sugar               |       |          | 33.1  | 3.3  |
| WSC, Sugar               |       |          |       | 5.9  |
| Starch                   |       |          | 26.2  | 2.6  |
| Soluble Starch           |       |          |       |      |
| Soluble Fiber            |       |          |       |      |
| Starch Dig. (7 hr, 4 mm) |       |          |       |      |
| Crude Fat                |       |          |       | 2.21 |
| Fatty Acids, Total       | 46.6  |          |       | 1.03 |
| C16:0                    |       |          |       | 0.27 |
| C18:0                    |       |          |       | 0.02 |
| C18:1                    |       |          |       | 0.05 |
| C18:2                    |       |          |       | 0.13 |
| C18:3                    |       |          |       | 0.29 |
| Unsaturated Fatty Acids  |       |          |       | 0.47 |

Values in bold were analyzed by wet chemistry methods.

### MINERALS

Ash (%DM) 11.1  
Calcium (%DM) 0.51  
Phosphorus (%DM) 0.32  
Magnesium (%DM) 0.24  
Potassium (%DM) 2.82  
Sulfur (%DM) 0.27  
Sodium (%DM)  
Chloride (%DM)

Iron (PPM)  
Manganese (PPM)  
Zinc (PPM)  
Copper (PPM)  
Molybdenum (PPM)

### QUALITATIVE

pH  
Total VFA (%DM)  
Lactic Acid (%DM)  
Lactic as % of Total VFA  
Acetic Acid (%DM)  
Propionic Acid, %DM  
Butyric Acid (%DM)  
1, 2 Propanediol (%DM)  
Nitrate Ion (%DM)  
Nitrate-Nitrogen, ppm

Soil Contamination Probability Probable low to none  
Soil Contamination (%DM) 8.5  
NIR Statistical Confidence Good prediction potential

### ENERGY & INDEX CALCULATIONS

TDN (%DM) 53.9  
Net Energy Lactation (Mcal/lb) 0.55  
Net Energy Maintenance (Mcal/lb) 0.50  
Net Energy Gain (Mcal/lb) 0.25  
ME (Mcal/lb) 0.89  
AA Protein as % of Total Protein 60.0  
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin\*2.4) 2.97  
NDF Dig. Rate (Kd, %HR, uNDF) 4.7  
Starch Dig. Rate (Kd, %HR, Mertens)  
Relative Feed Value (RFV) 77  
Relative Forage Quality (RFQ) 75  
Milk per Ton (lbs/ton) 2092  
Milk per Ton 2024(lbs/ton)  
Beef per Ton (lbs/ton)  
Dig. Organic Matter Index (lbs/ton) 1167  
ROM (Residual Organic Matter) 9.75  
NFC (Non-Fiber Carbohydrates)(%DM) 10.0  
NSC (Non-Structural Carbohydrates) ESC (%DM) 5.9  
NSC (Non-Structural Carbohydrates) WSC (%DM) 8.5  
DCAD (meq/100gdm)  
Summative Index % (Mass Balance) 95.2

Additional sample information, submitted documents and lab pictures linked to QR code



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