



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**  
Desc: **#935 DRYLAND GRASS 4X4 BALES**  
Submitter: **CVAS, ANALYSIS**  
Account: **CVAS ANALYSIS**

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

Lab ID: **39373 253**  
Sampled: **08/11/2026**  
Arrived: **08/12/2026**  
Completed: **08/12/2026**  
Reported: **08/12/2026**

## #935 DRYLAND GRASS 4X4 BALES

### SAMPLE INFORMATION

Lab ID: 39373 253 Version: 1.0  
Feed Type: GRASS FORAGE Crop Year:  
Package: BASIC NIR Cutting#:

### NIR ANALYSIS RESULTS

Moisture 6.6  
Dry Matter 93.4

### PROTEINS

|                           | % SP | % CP | % DM |
|---------------------------|------|------|------|
| Crude Protein             |      |      | 8.6  |
| Adjusted Protein          |      |      | 8.6  |
| Soluble Protein           |      | 53.6 | 4.6  |
| Ammonia (CPE)             | 17.0 | 9.1  | 0.78 |
| ADF Protein (ADICP)       |      | 5.6  | 0.48 |
| NDF Protein (NDICP)       |      |      |      |
| NDR Protein (NDRCP)       |      |      |      |
| Rumen Degr. Protein       |      | 76.8 | 6.6  |
| Amino Acid Protein, Total |      | 63.6 | 5.44 |
| Lysine                    |      |      |      |
| Methionine                |      |      |      |
| Isoleucine                |      |      |      |
| Leucine                   |      |      |      |
| Histidine                 |      |      |      |
| Valine                    |      |      |      |
| Arginine                  |      |      |      |

### FIBER

|                            | %NDFom | NDFom %DM | % NDF | % DM |
|----------------------------|--------|-----------|-------|------|
| ADF                        |        |           | 68.1  | 35.4 |
| aNDF                       |        | 47.1      |       | 52.0 |
| NDR (NDF w/o sulfite)      |        |           |       |      |
| Crude Fiber                |        |           |       |      |
| Lignin                     |        |           | 10.7  | 5.58 |
| NDF Digestibility (12 hr)  | 11.7   | 5.5       | 10.6  | 6.0  |
| NDF Digestibility (24 hr)  |        |           |       |      |
| NDF Digestibility (30 hr)  | 50.5   | 23.8      | 46.2  | 24.0 |
| NDF Digestibility (72 hr)  |        |           |       |      |
| NDF Digestibility (120 hr) | 53.3   | 25.1      | 48.6  | 25.3 |
| NDF Digestibility (240 hr) | 55.6   | 26.2      | 50.7  | 26.3 |
| uNDF (12 hr)               | 88.3   | 41.6      |       |      |
| uNDF (24 hr)               |        |           |       |      |
| uNDF (30 hr)               | 49.5   | 23.3      | 53.8  | 28.0 |
| uNDF (120 hr)              | 46.8   | 22.0      | 51.4  | 26.7 |
| uNDF (240 hr)              | 44.4   | 20.9      | 49.3  | 25.6 |

### CARBOHYDRATES

|                          | % Fat | % Starch | % NFC | % DM |
|--------------------------|-------|----------|-------|------|
| Silage Acids             |       |          |       |      |
| ESC, Sugar               |       |          | 36.8  | 10.7 |
| WSC, Sugar               |       |          |       | 15.3 |
| Starch                   |       |          | 6.2   | 1.8  |
| Soluble Starch           |       |          |       |      |
| Soluble Fiber            |       |          | 46.2  | 13.5 |
| Starch Dig. (7 hr, 4 mm) |       |          |       |      |
| Crude Fat                |       |          |       | 3.22 |
| Fatty Acids, Total       | 33.9  |          |       | 1.09 |
| C16:0                    |       |          |       | 0.25 |
| C18:0                    |       |          |       | 0.03 |
| C18:1                    |       |          |       | 0.02 |
| C18:2                    |       |          |       | 0.18 |
| C18:3                    |       |          |       | 0.34 |
| Unsaturated Fatty Acids  |       |          |       | 0.54 |

Values in bold were analyzed by wet chemistry methods.

### MINERALS

|                  |      |
|------------------|------|
| Ash (%DM)        | 7.11 |
| Calcium (%DM)    | 0.63 |
| Phosphorus (%DM) | 0.14 |
| Magnesium (%DM)  | 0.18 |
| Potassium (%DM)  | 0.89 |
| Sulfur (%DM)     | 0.18 |
| 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) 6.2  
NIR Statistical Confidence Good prediction potential

### ENERGY & INDEX CALCULATIONS

|                                                  |       |
|--------------------------------------------------|-------|
| TDN (%DM)                                        | 62.6  |
| Net Energy Lactation (Mcal/lb)                   | 0.64  |
| Net Energy Maintenance (Mcal/lb)                 | 0.66  |
| Net Energy Gain (Mcal/lb)                        | 0.40  |
| ME (Mcal/lb)                                     | 1.06  |
| AA Protein as % of Total Protein                 | 63.6  |
| NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) | 3.09  |
| NDF Dig. Rate (Kd, %HR, uNDF)                    | 5.5   |
| Starch Dig. Rate (Kd, %HR, Mertens)              |       |
| Relative Feed Value (RFV)                        | 110   |
| Relative Forage Quality (RFQ)                    |       |
| Milk per Ton (lbs/ton)                           |       |
| Milk per Ton 2024(lbs/ton)                       |       |
| Beef per Ton (lbs/ton)                           |       |
| Dig. Organic Matter Index (lbs/ton)              | 1299  |
| ROM (Residual Organic Matter)                    | 32.67 |
| NFC (Non-Fiber Carbohydrates)(%DM)               | 29.1  |
| NSC (Non-Structural Carbohydrates) ESC (%DM)     | 12.5  |
| NSC (Non-Structural Carbohydrates) WSC (%DM)     | 17.1  |
| DCAD (meq/100gdm)                                |       |
| Summative Index % (Mass Balance)                 | 94.5  |

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



Cumberland Valley Analytical Services, Inc.

4999 Zane A. Miller Drive, Waynesboro, PA 17268  
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB

