# Example CNA Report with KPS Indicator

**Received:** 10/24/2024 **Sampled:** 10/24/2024 Likely Nitrate-N detected; wet chemistry Nitrate-N analysis advised

**Rep:** Example Smith **Moisture:** 66.50

Example Farm: Corn Silage 2023 **Dry Matter:** 33.50

ROCK RIVER LABORATORY, INC.
AGRICULTURAL ANALYSIS

| Protein & Amino Acid | %DM | 60d | 4 yr |
|---|---|---|---|
| Crude Protein | 8.69 | 8.09 | 7.60 |
| Total Amino Acid | | | |
| Sol. CP, % of CP | 68.63 | 49.56 | 59.81 |
| NH3-N CP Equivalent | 0.92 | 0.25 | 0.64 |
| NH3-N, % of CP | 10.56 | 3.12 | 8.44 |
| ADICP | 0.35 | 0.35 | 0.57 |
| NDICP | 0.74 | 0.71 | 0.89 |
| ADICP, % of CP | 4.07 | 4.23 | 7.63 |
| Available CP | 8.33 | 7.74 | 7.03 |
| Nitrate-N, ppm | | | |
| Non-Protein Nitrogen | | | |

**Calculated Amino Acids**

| | | | |
|---|---|---|---|
| Lysine, % of CP | | | |
| Methionine, % of CP | | | |
| Histidine, % of CP | | | |

**Minerals & Ash**

| | | | |
|---|---|---|---|
| Ash | 7.26 | 5.67 | 5.90 |
| Calcium | | | |
| Phosphorus | | | |
| Magnesium | | | |
| Potassium | | | |
| Sodium | | | |
| Sulfur | | | |
| Chloride | | | |
| Aluminum | | | |
| Boron | | | |
| Copper | | | |
| Iron | | | |
| Manganese | | | |
| Molybdenum | | | |
| Zinc | | | |

| Carbohydrates | %DM | 60d | 4 yr |
|---|---|---|---|
| ADF | 30.67 | 24.55 | 24.81 |
| aNDF | 49.13 | 41.55 | 41.02 |
| aNDFom | 47.10 | 39.59 | 39.08 |
| Lignin | 5.08 | 4.34 | 4.35 |
| Starch | 22.98 | 31.98 | 31.04 |
| Sugar (ESC) | 2.20 | 2.68 | 2.68 |
| Sugar (WSC) | 3.80 | 4.33 | 4.40 |
| Glucose | | | |
| Fructose | | | |
| Sucrose | | | |
| Lactose | | | |
| Mannitol | | | |
| Total Sugar | | | |
| Crude Fiber | | | |

**Fermentation Products**

| | | | |
|---|---|---|---|
| pH | 3.97 | 4.19 | 3.93 |
| Lactic Acid | 4.48 | 1.87 | 4.20 |
| Acetic Acid | 3.21 | 0.90 | 2.48 |
| Butyric Acid | 0.00 | 0.00 | 0.00 |
| Propionic Acid | | | |
| Succinic | | | |
| Formic | | | |
| Total Acids | | | |
| Ethanol | | | |
| 1,2 Propanediol | | | |
| 1 Propanol | | | |
| 2,3 Butanediol | | | |
| 2 Butanol | | | |
| 2 Propanol | | | |
| Fermentation DM Loss | 3.01 | 2.85 | 2.53 |
| Ethyl Lactate | | | |
| Ethyl Acetate | | | |

| Fat | %DM | 60d | 4 yr |
|---|---|---|---|
| Ether Extract | 2.08 | 2.26 | 2.37 |
| Total Fatty Acid | | | |
| Acid Hydrolysis | | | |

| | % of FA |
|---|---|
| Myristic (C14:0) | |
| Palmitic (C16:0) | |
| Stearic (C18:0) | |
| Oleic (C18:1 c9) | |
| Linoleic (C18:2 c9,12) | |
| Linolenic (C18:3 c9,12,15) | |
| RUFAL | |

**Nutrient Digestion, % of nutrient**

| | | | |
|---|---|---|---|
| tNDFD12 | | | |
| tNDFD30 | 55.08 | 56.29 | 56.81 |
| tNDFD48 | 64.15 | 61.98 | 63.61 |
| tNDFD72 | | | |
| tNDFD120 | 70.67 | 68.20 | 70.12 |
| tNDFD240 | 73.02 | 71.31 | 73.34 |
| tNDFD30om | 58.43 | 59.31 | 59.82 |
| tNDFD120om | 73.39 | 70.79 | 72.68 |
| tNDFD240om | 75.65 | 73.77 | 75.78 |
| sNDFD24 | 27.64 | 28.31 | 25.56 |
| sNDFD30 | 40.34 | 36.75 | 34.20 |
| sNDFD48 | 54.25 | 49.54 | 48.51 |
| uNDF30, % DM | 22.07 | 18.18 | 17.67 |
| uNDF240, % DM | 13.26 | 11.89 | 10.97 |
| isSD0 | 34.56 | 36.76 | 29.58 |
| isSD3 | 70.83 | 61.39 | 70.12 |
| isSD7 | 74.64 | 69.59 | 81.86 |
| isSD16 | | | |
| isSD24 | | | |
| in situ RUP 16h | | | |
| RUP intest. dig., % RUP | | | |

## Comprehensive Nutrition Analysis Report

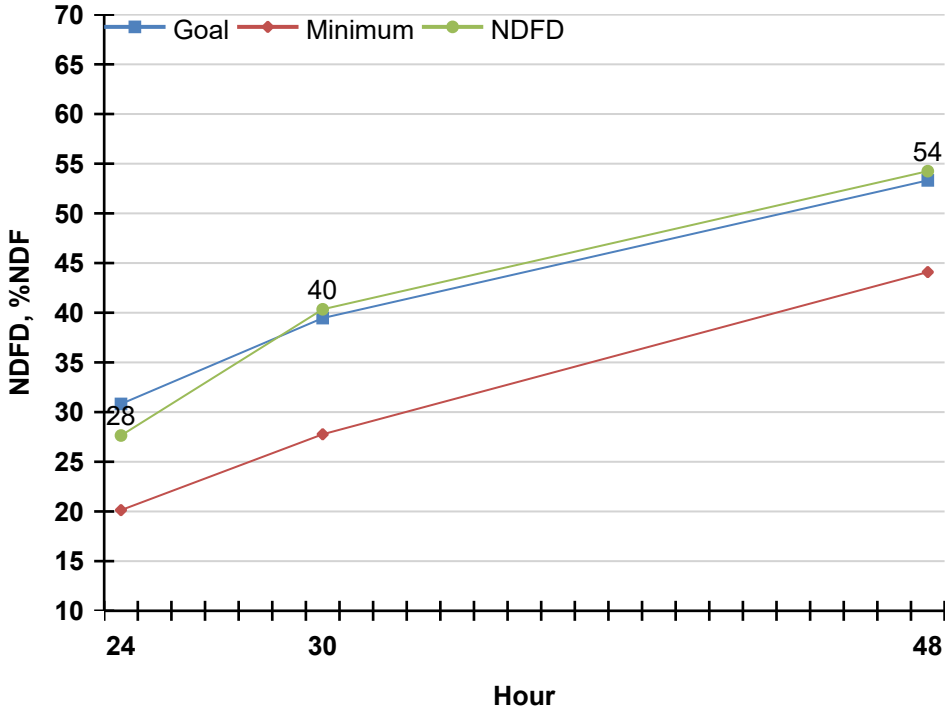
| Calculations | %DM | 60d | 4 yr |
|---|---|---|---|
| Dynamic NDF kd, %/h | 5.11 | 4.66 | 4.39 |
| Dynamic Starch Kd, %/h | 18.73 | 16.38 | 23.57 |
| RFV | | | |
| RFQ | | | |
| TTNDFD (UW-Combs), % of NDF | 46.65 | 42.62 | 42.03 |
| Total Tract Starch Dig | | | |
| NFC | 33.57 | 43.20 | 44.02 |
| DCAD | | | |
| Salt | | | |
| RDP %CP | | | |

| Energy / Particle Size | TDN | NEL | NEG | NEM |
|---|---|---|---|---|
| ADF (PA) | | | | |
| OARDC Dairy | | | | |
| NRC2001 Dairy | | | | |
| Milk2006 Dairy | 64.25 | 0.617 | 0.423 | 0.693 |
| NRC2016 Beef | | | | |
| Milk/Ton, lb | 2744 | California TDN 90% DM | | 53.40 |
| Beef lb/Ton | | | | |
| Milk/Ton, lb (2024) | 2617 | | | |
| Kernel Processing Score | | | | |
| Berry Processing Score | | Mean Particle Size | | |

| Anti-Nutrients |
|---|
| Mold (Guidelines) |
| Yeast (Guidelines) |
| DON, ppm |
| Aflatoxin, ppb |
| Zearalenone, ppb |
| Fumonisin, ppm |
| T-2, ppb |
| Ochratoxin-A, ppb |
| *Clostridium perfringens* |
| Enterobacteria |

Likely Below 70%*

**NDF Digestion Curve**

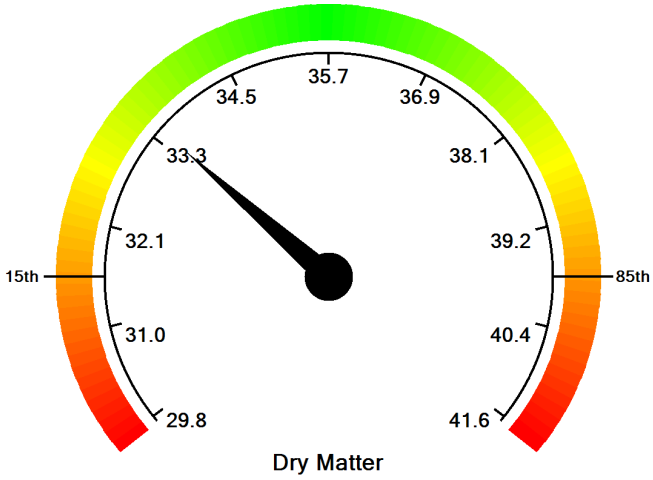



* - KPS value determined through predictive NIR model to likely be below the goal of 70%.

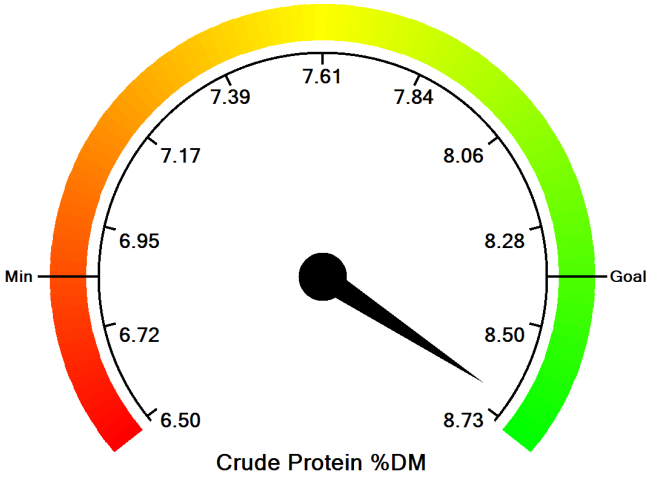
# Visual Feed Analysis Report

**Lab Number** r2d2c3po 10/24/2024
**Sample ID** Corn Silage
**Farm** Example Farm
**Consultant** Example Smith

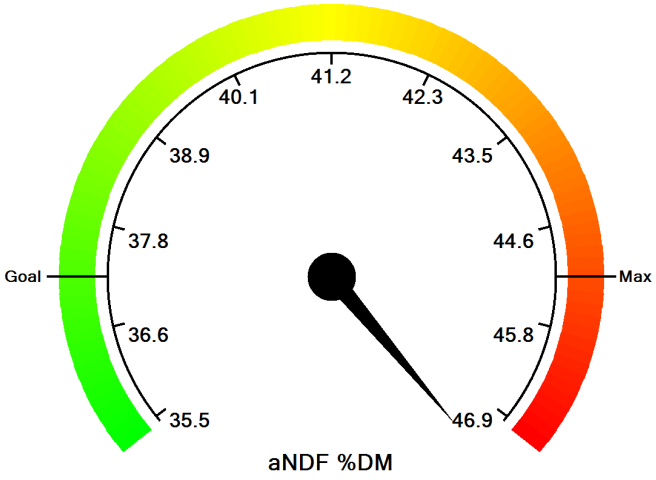
ROCK RIVER LABORATORY, INC.
AGRICULTURAL ANALYSIS



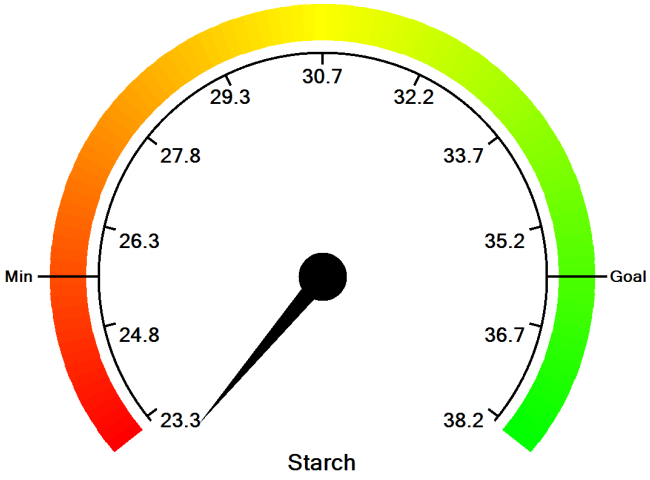
Dry Matter



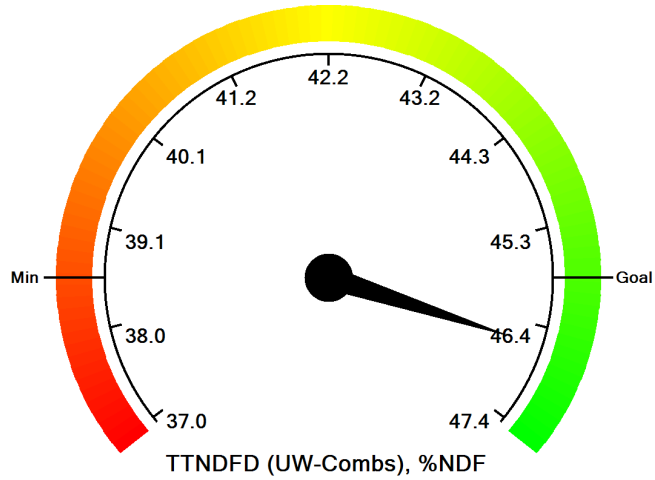
Crude Protein %DM



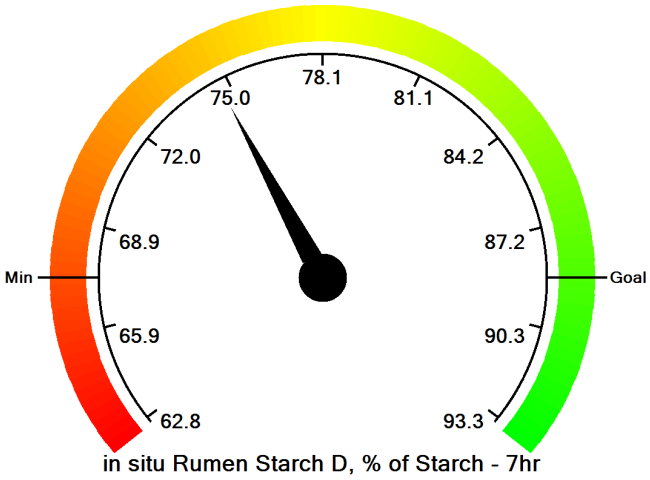
aNDF %DM



Starch



TTNDFD (UW-Combs), %NDF



in situ Rumen Starch D, % of Starch - 7hr

**The Goal corresponds to the 85th percentile and the Minimum corresponds to the 15th percentile.**