ChecklistGuro

Forage Quality Analysis

Sample Collection & Preparation

Ensuring a representative sample is crucial for accurate analysis. This section covers proper collection and preparation techniques.

Field Notes - Location & Conditions

Write something...

GPS Coordinates of Sample Site

Set My Current Location

Date of Sample Collection

Enter date...

Time of Sample Collection

Number of Subsamples Combined

Enter a number...

Plant Species Present (Select All That Apply)

- [ ] Grass (e.g., Timothy, Orchardgrass)
- [ ] Legume (e.g., Alfalfa, Clover)
- [ ] Brassica (e.g., Radish, Turnip)
- [ ] Other (Specify in Field Notes)

Detailed Description of Sample Appearance (Color, Smell, Presence of Mold)

Write something...

Photo of Sample in Field (Optional)

Upload File

Nutrient Analysis - Dry Matter (DM)

Determining the dry matter content is foundational. It's used to convert all other nutrient values to a dry matter basis.

Initial Weight of Sample (as received)

Enter a number...

Weight of Sample After Drying (constant weight)

Enter a number...

Dry Matter Percentage (%)

Enter a number...

Drying Method Used (e.g., oven temperature, duration)

Write something...

Drying Oven Temperature (°C)

- [ ] 55°C
- [ ] 65°C
- [ ] 70°C
- [ ] Other

Drying Time (hours)

Enter a number...

Notes on Drying Process (e.g., any deviations from standard procedure)

Write something...

Nutrient Analysis - Major Components

Analysis of key nutrients like Crude Protein (CP), Acid Detergent Fiber (ADF), Neutral Detergent Fiber (NDF), and Total Digestible Nutrients (TDN).

Crude Protein (CP) %

Enter a number...

Acid Detergent Fiber (ADF) %

Enter a number...

Neutral Detergent Fiber (NDF) %

Enter a number...

Total Digestible Nutrients (TDN) %

Enter a number...

Lignin Content %

Enter a number...

Ash Content %

Enter a number...

Forage Species (Primary)

- [ ] Grass
- [ ] Legume
- [ ] Browse
- [ ] Mixed

Notes on Appearance/Odor/Condition

Write something...

Nutrient Analysis - Minerals

Assessment of essential mineral content, impacting animal health and performance.

Calcium (Ca) Concentration (ppm)

Enter a number...

Phosphorus (P) Concentration (ppm)

Enter a number...

Magnesium (Mg) Concentration (ppm)

Enter a number...

Potassium (K) Concentration (ppm)

Enter a number...

Sulfur (S) Concentration (ppm)

Enter a number...

Copper (Cu) Concentration (ppm)

Enter a number...

Zinc (Zn) Concentration (ppm)

Enter a number...

Iron (Fe) Concentration (ppm)

Enter a number...

Manganese (Mn) Concentration (ppm)

Enter a number...

Mineral Deficiency Concerns (Select all that apply)

- [ ] Calcium Deficiency
- [ ] Phosphorus Deficiency
- [ ] Magnesium Deficiency
- [ ] Other (Specify in LONG_TEXT)

Nutrient Analysis - Vitamins

Analysis of vitamins, though often less critical than major nutrients, can provide valuable information (optional).

Which Vitamins are to be analyzed?

- [ ] Vitamin A
- [ ] Vitamin D
- [ ] Vitamin E
- [ ] Vitamin K
- [ ] Thiamin (B1)
- [ ] Riboflavin (B2)
- [ ] Niacin (B3)
- [ ] Pantothenic Acid (B5)
- [ ] B6
- [ ] Folic Acid
- [ ] B12
- [ ] Biotin
- [ ] None (Not Required)

Requested Detection Limit (ppm) for Vitamin A (if applicable)

Enter a number...

Requested Detection Limit (ppm) for Vitamin D (if applicable)

Enter a number...

Requested Detection Limit (ppm) for Vitamin E (if applicable)

Enter a number...

Special Instructions for Vitamin Analysis (if any)

Write something...

Units of Measurement for Results

- [ ] mg/kg DM
- [ ] µg/kg DM
- [ ] IU/kg DM (International Units)

Palatability & Digestibility Assessment (Optional)

Evaluating factors that impact how readily animals consume and digest the forage. Often based on lab techniques or estimations.

Visual Assessment of Appearance

Write something...

Olfactory Assessment (Smell)

Write something...

Leaf:Stem Ratio (Estimate)

Enter a number...

Presence of Weeds/Foreign Materials

- [ ] None
- [ ] Minimal
- [ ] Moderate
- [ ] Significant

Maturity Stage (Estimate)

- [ ] Early
- [ ] Mid
- [ ] Late

Notes on Animal Acceptance (if observed)

Write something...

Data Interpretation & Reporting

Understanding the results and creating a clear report to guide forage management decisions.

Summary of Key Findings

Write something...

Dry Matter Percentage (%)

Enter a number...

Crude Protein (CP) Percentage (%)

Enter a number...

Acid Detergent Fiber (ADF) Percentage (%)

Enter a number...

Neutral Detergent Fiber (NDF) Percentage (%)

Enter a number...

Overall Forage Quality Rating (e.g., Excellent, Good, Fair, Poor)

- [ ] Excellent
- [ ] Good
- [ ] Fair
- [ ] Poor

Recommendations for Management (e.g., fertilization, grazing strategy)

Write something...

Date of Report

Enter date...

Quality Control & Assurance

Ensuring the reliability and accuracy of the analysis through proper procedures and lab accreditation.

Laboratory Accreditation Status

- [ ] ISO 17025 Accredited
- [ ] Other (Specify)

If not ISO 17025, Explain Accreditation/Quality Program

Write something...

Replicate Analysis Coefficient of Variation (CV)

Enter a number...

Standard Reference Material Usage

- [ ] Used Regularly
- [ ] Used Occasionally
- [ ] Not Used

Last Calibration Date (Analytical Equipment)

Enter date...

Describe Calibration Procedures

Write something...

Calibration Certificates (If Applicable)

Upload File