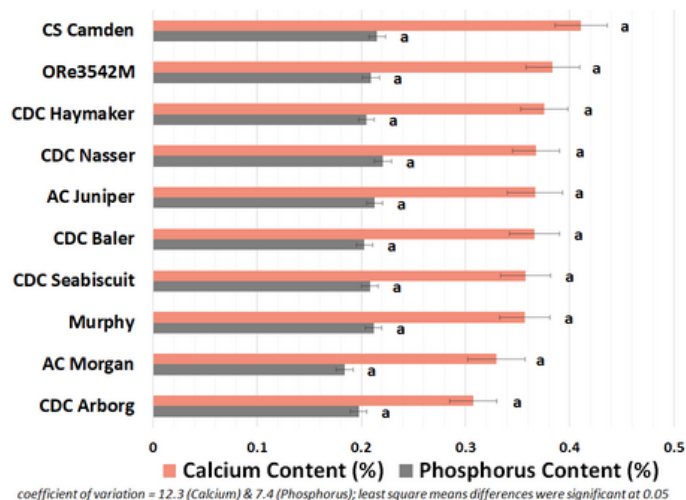
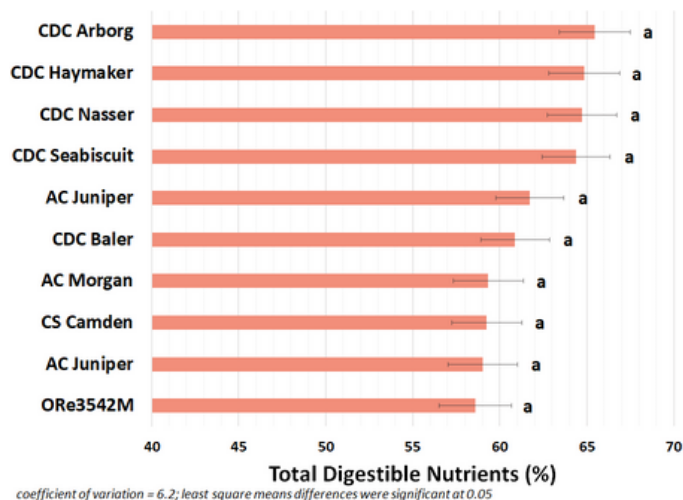
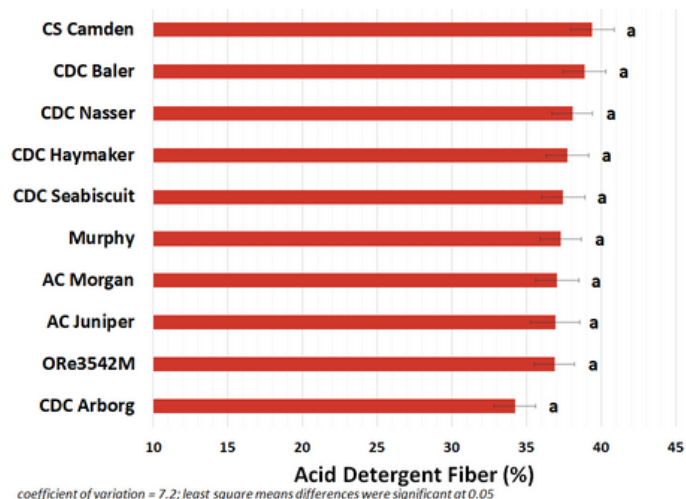
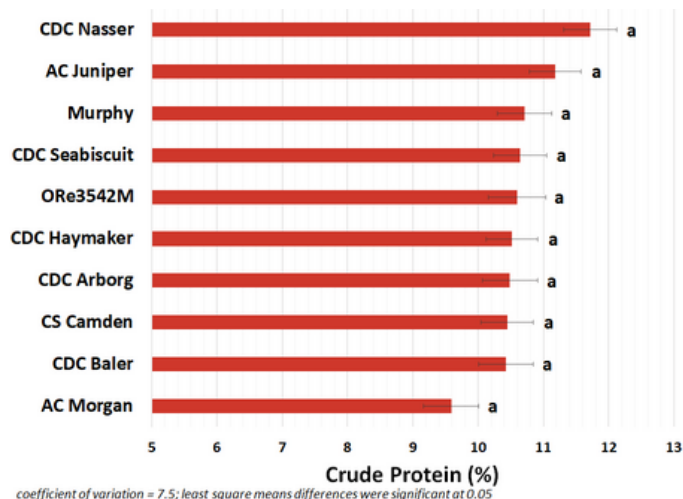
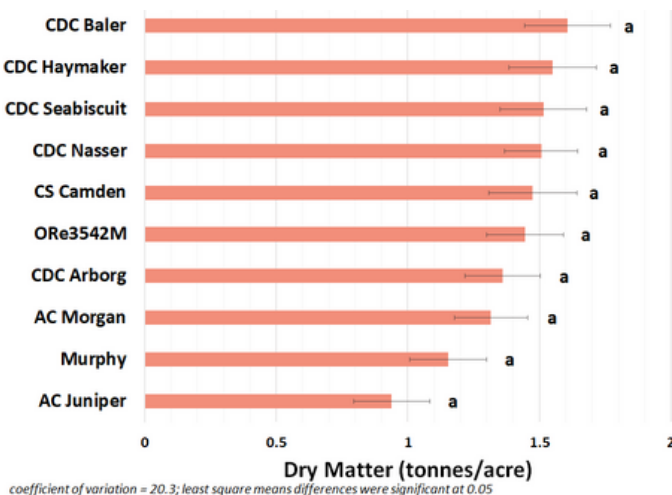


ANNUAL FORAGES VARIETY TRIAL RESULTS - 2020

Oat Forages

Overview: Ten oat varieties were harvested and their feed characteristics compared.

Conclusion: None of the analyzed variables: dry matter yield ($P=0.14$), crude protein content ($P=0.13$), total digestible nutrients ($P=0.11$), acid detergent fiber ($P=0.48$), phosphorus content ($P=0.18$), and calcium content ($P=0.34$), proved to be significantly different from one another. Dry yield ranged from 0.75 to 1.75 tonnes/acre. Crude protein content was between 9.5-11.75%; TDN ranged 57-66%, and ADF ranged 34-40%. Oats displayed Ca contents from 0.3% to 0.42% and P contents from 0.18% to 0.23%. The C.V. values for the dry matter and Ca content analyses were high, indicating unreliable results for these variables.



Seeding Date: May 26; **Seeding Depth:** 1 in.; **Seeding Rate:** 30 plants/sq. ft.; **Harvest Date:** Aug. 14

Applications: May 15: Glyphosate - 0.66 L/ac; May 17: 46-0-0-0 - 120 lb/ac; Jun. 5: Prestige A - 0.32 L/ac & Prestige B - 0.81 L/ac; July 14: G22 - 3 L/ac, F18 - 0.5 L/ac, Microbolt (B) - 0.25 L/ac, and Microbolt (Mo) - 14 g/ac

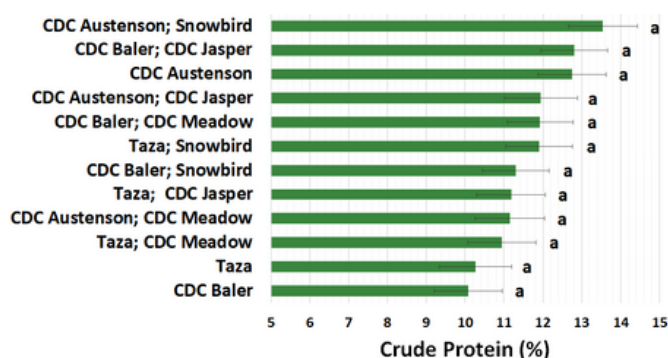
ANNUAL FORAGES VARIETY TRIAL RESULTS - 2020

Pulse and Cereal Mixes

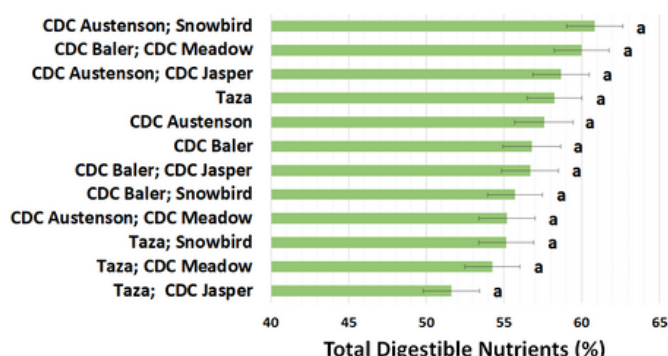
Overview: Twelve pulse and cereal mixes were harvested and their feed characteristics compared.

Conclusion: As with the oat forage trial, none of the analyzed variables: dry matter produced ($P=0.49$), crude protein content ($P=0.20$), total digestible nutrients ($P=0.051$), acid detergent fiber ($P=0.63$), phosphorus content ($P=0.77$), and calcium content ($P=0.55$), proved to be significantly different. Dry matter produced ranged from 1.25 to 2.25 tonnes/acre. Ca content was between 0.4% and 0.58%, and P content ranged 0.19-0.25%. Note the high coefficient of variation through the statistical analysis of dry matter, crude protein, ADF, and calcium content

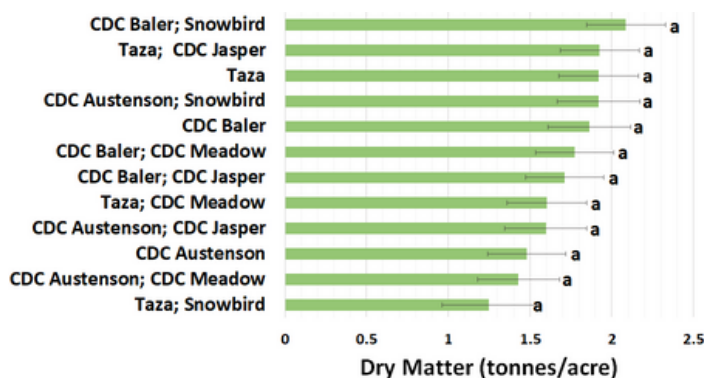
Pulses	Cereals
Snowbird - Faba Bean	CDC Baler - Forage Oat
CDC Jasper - Forage Pea	CDC Austenson - Feed Barley
CDC Meadow - Yellow Pea	Taza - Spring Triticale



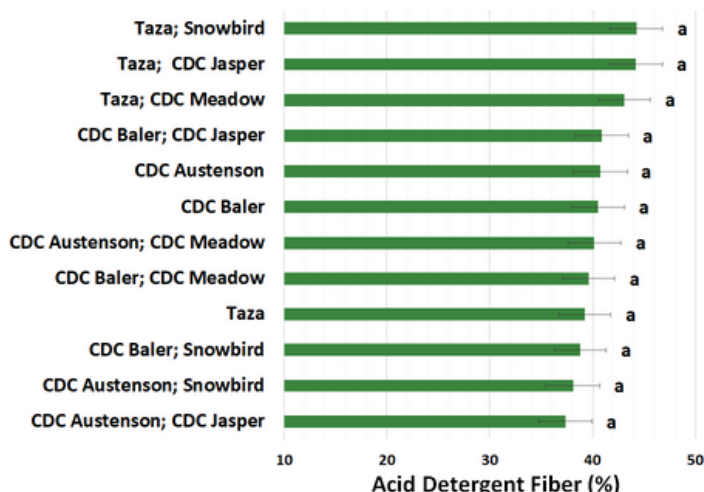
coefficient of variation = 14.5; least square means differences were significant at 0.05



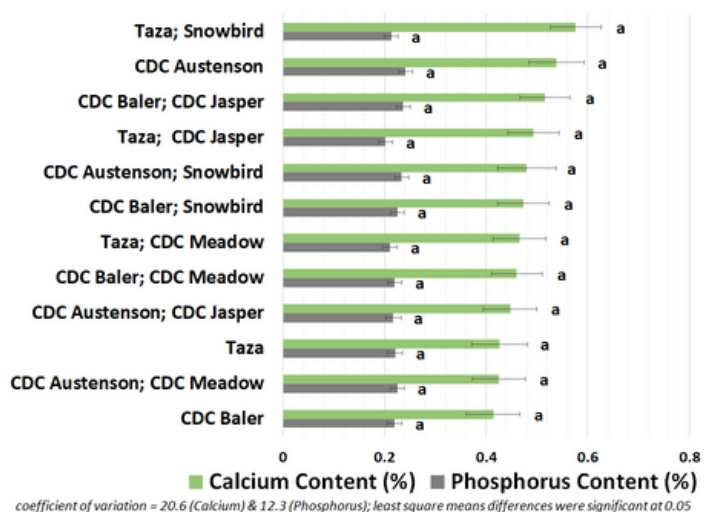
coefficient of variation = 6.2; least square means differences were significant at 0.05



coefficient of variation = 27.7; least square means differences were significant at 0.05



coefficient of variation = 12.3; least square means differences were significant at 0.05



Seeding Date: May 26; **Seeding Depth:** 1 in.; **Seeding Rate:** Variable plants/sq. ft.; **Harvest Date:** Aug. 13

Applications: May 15: Glyphosate - 0.66 L/ac; May 17: 46-0-0-0 - 120 lb/ac; May 26: 13-33-0-15S - 120 lb/ac; July 14: G22 - 3 L/ac, F18 - 0.5 L/ac, Microbolt (B) - 0.25 L/ac, and Microbolt (Mo) - 14 g/ac

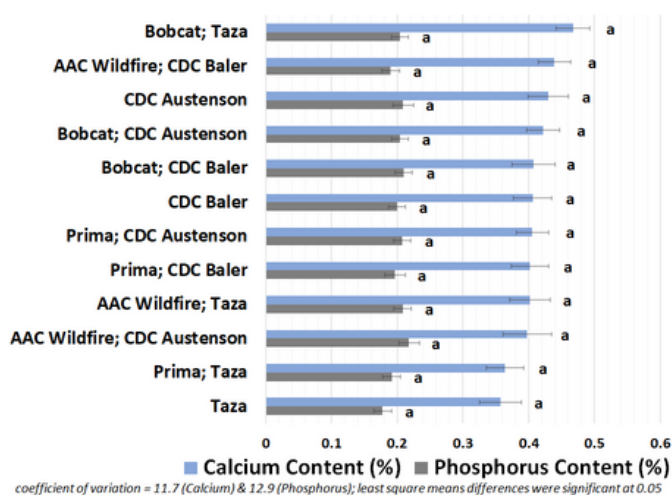
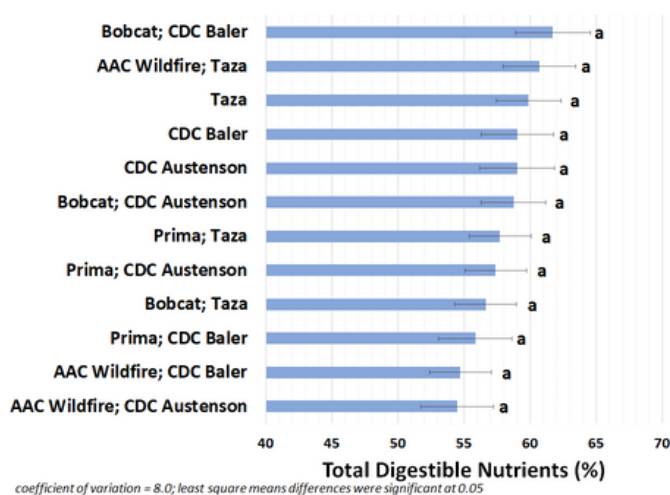
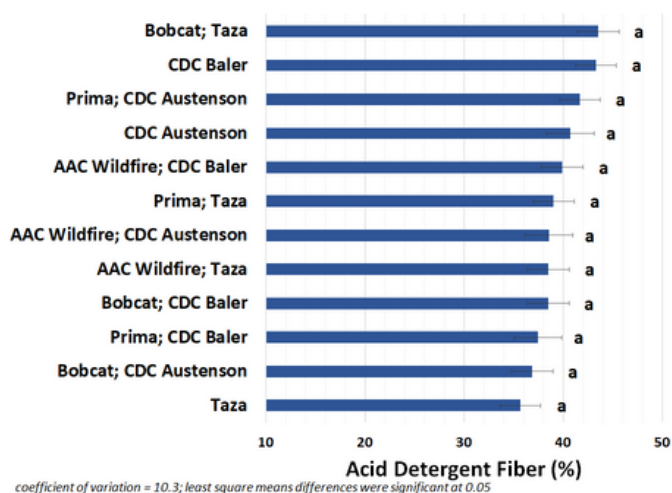
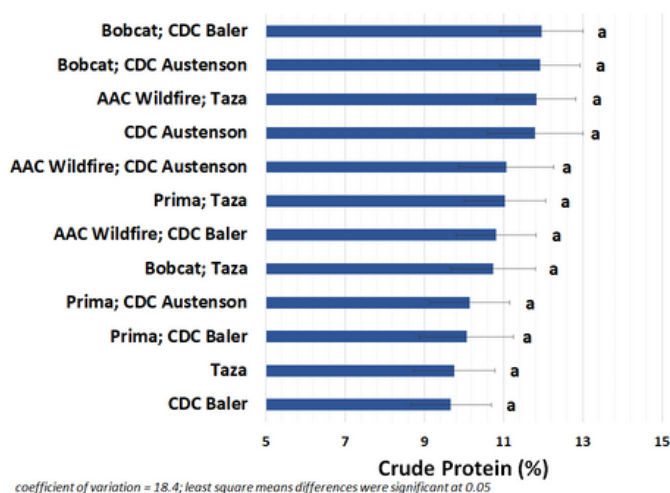
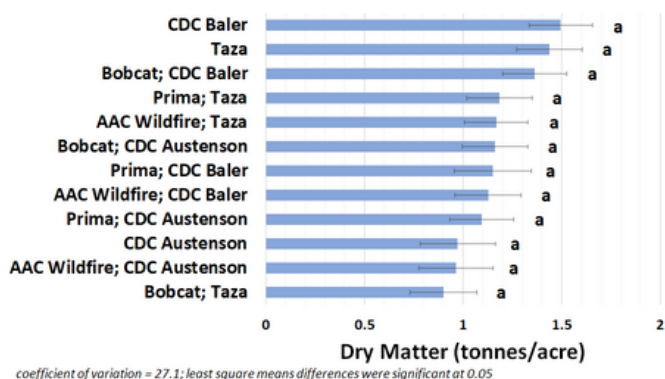
ANNUAL FORAGES VARIETY TRIAL RESULTS - 2020

Spring and Winter Cereal Mixes

Overview: Twelve cereal mixes were harvested and their feed characteristics compared.

Conclusion: As with the oat and pulse/cereal mix forage trials, none of the analyzed variables: dry matter produced ($P=0.32$), crude protein content ($P=0.75$), total digestible nutrients ($P=0.65$), acid detergent fiber ($P=0.25$), phosphorus content ($P=0.76$), and calcium content ($P=0.41$), proved to be significantly different from one another. Dry matter produced ranged from 0.75 to 1.5 tonnes/acre. Ca content ranged 0.17-0.23%. P content spanned 0.35-0.48%. Aside from TDN content, the C.V. value was high for every factor analyzed, indicating unreliable results.

Cereals	
Bobcat - Fall Triticale	CDC Baler - Forage Oat
Prima - Fall Rye	CDC Austenson - Feed Barley
AAC Wildfire - Winter Wheat	Taza - Spring Triticale



Seeding Date: May 30; **Seeding Depth:** 1 in.; **Seeding Rate:** 29-30 plants/sq. ft.; **Harvest Date:** Sep. 01

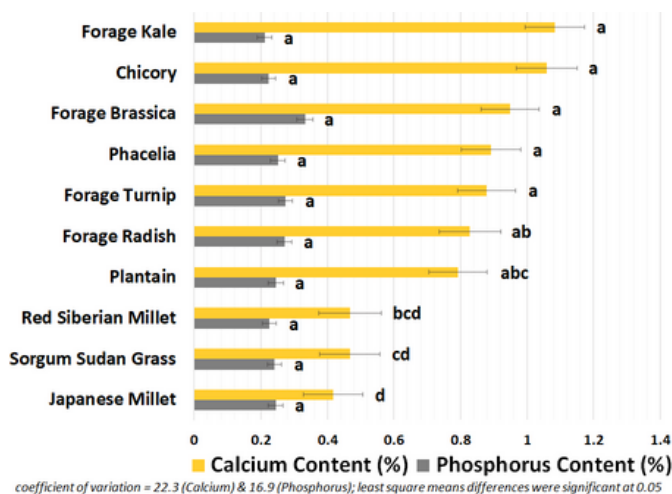
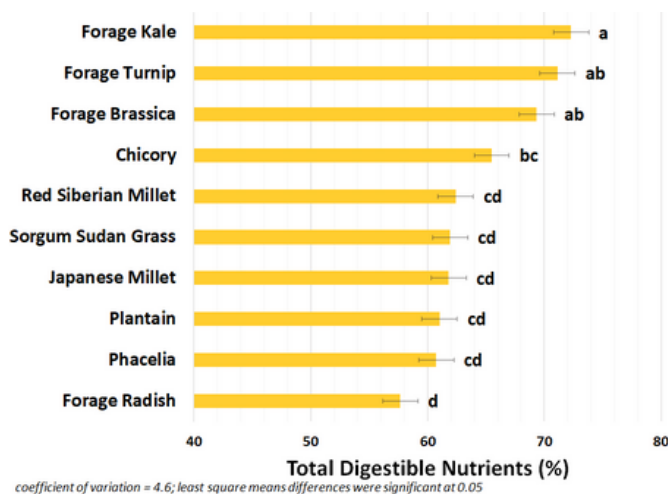
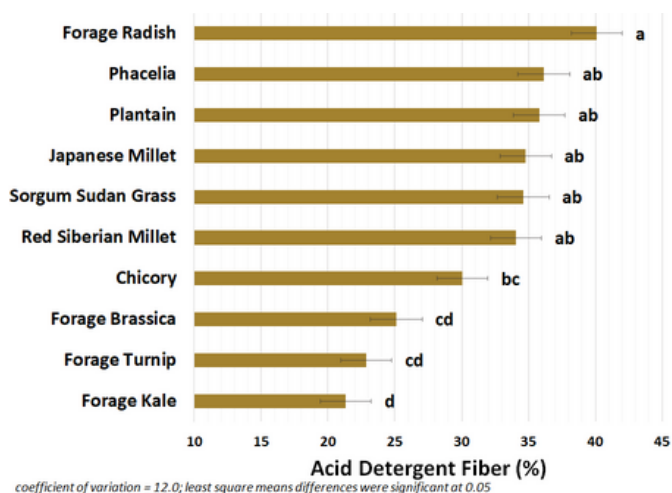
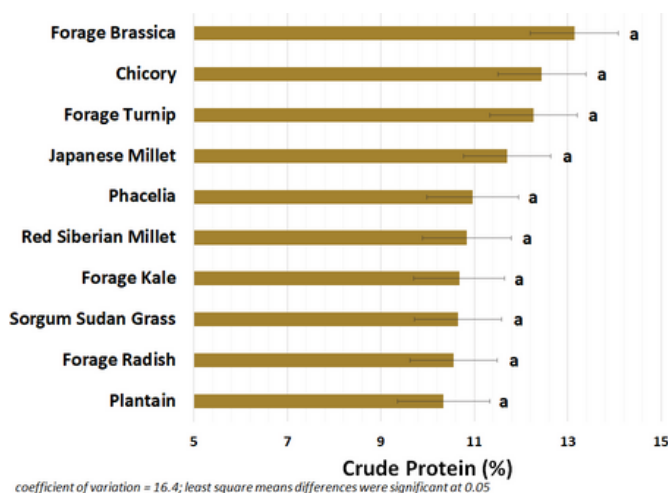
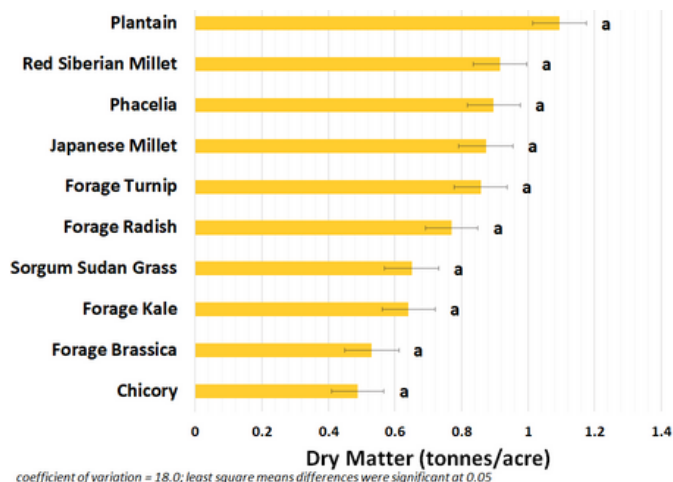
Applications: May 15: Glyphosate - 0.66 L/ac; May 17: 46-0-0-0 - 120 lb/ac; May 30: 13-33-0-15S - 120 lb/ac; July 14: G22 - 3 L/ac, F18 - 0.5 L/ac, Microbolt (B) - 0.25 L/ac, and Microbolt (Mo) - 14 g/ac

ANNUAL FORAGES VARIETY TRIAL RESULTS - 2020

Alternative Forages

Overview: Ten annual forage alternative species were grown, harvested, and their feed characteristics compared.

Conclusion: Unlike the previously discussed annual forage trials, the alternatives did exhibit significant differences in ADF ($P < 0.0001$), TDN ($P < 0.0001$), and Ca ($P < 0.0001$). Dry matter ($P = 0.09$), crude protein content ($P = 0.43$), and P content ($P = 0.06$), on the other hand, were not significantly different. Forage kale produced the highest levels of TDN at 72%, ADF was highest in forage radish at 40%, and forage kale, chicory, forage brassica, phacelia, and forage turnip shared significance for highest calcium content. C.V. values were high for all aside from TDN.



Seeding Date: June 24; **Seeding Depth:** 0.5 in.; **Seeding Rate:** variable plants/sq. ft.; **Harvest Date:** Oct. 02
Applications: May 15, Jun. 2, and Jun. 24: Glyphosate - 0.66 L/ac; May 17: 46-0-0-0 - 120 lb/ac; Jun. 5: Prestige A - 0.32 L/ac and Prestige B - 0.81 L/ac; Jun. 24: 13-33-0-15S - 120 lb/ac; July 14: G22 - 3 L/ac, F18 - 0.5 L/ac, Microbolt (B) - 0.25 L/ac, and Microbolt (Mo) - 14 g/ac