

INRC Final Report

Figures and Tables

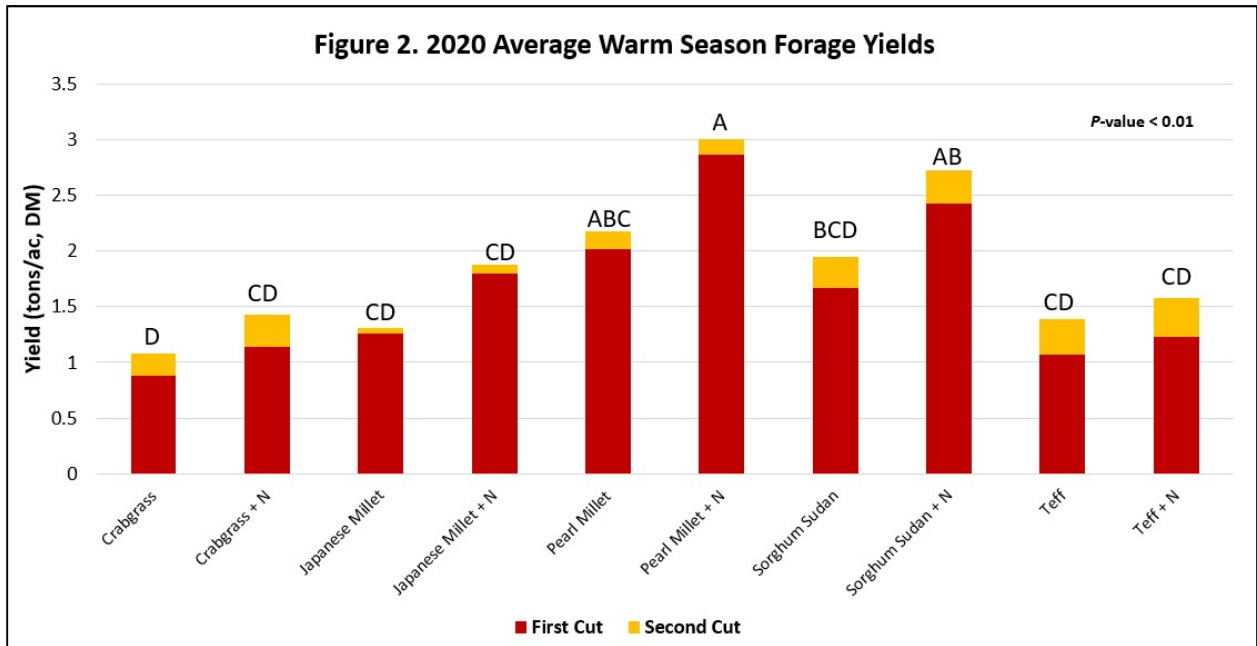
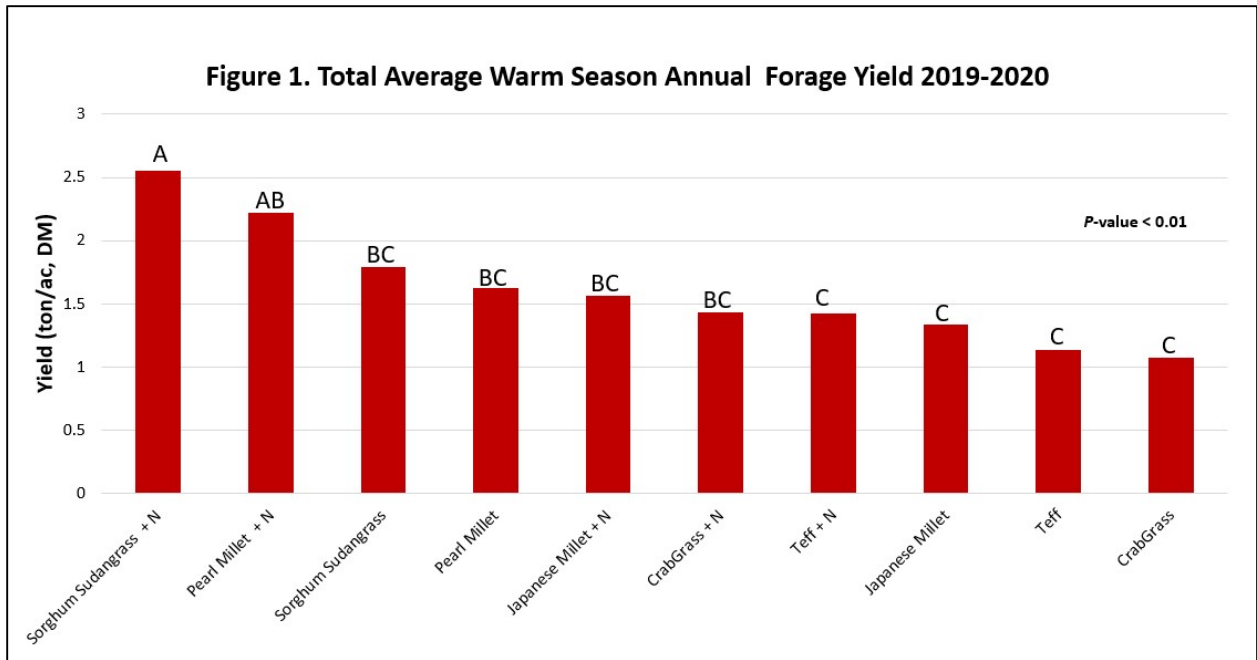


Table 1. Averages and ranges for warm season forage nutritional values ¹														
	DM, %		CP, %		ADF, %		NDF, %		RVF		TDN, %		NEg, mcal/cwt	
	Avg ²	Range	Avg	Range	Avg	Range	Avg	Range	Avg	Range	Avg	Range	Avg	Range
Crabgrass	30.0	17.4 – 53.3	13.2	8.7 – 24.2	35.9	25.0 – 41.8	54.4	36.2 – 64.3	100	79 - 145	61.0	56.3 – 69.4	28.48	23.67 – 37.77
Japanese Millet	29.8	17.3 – 51.7	12.2	8.3 – 15.9	37.5	33.5 – 43.2	58.4	48.6 – 66.4	92	73 - 115	59.7	55.2 – 62.77	27.14	22.97 – 32.40
Pearl Millet	23.5	16.3 – 43.2	12.1	7.2 – 18.8	37.3	33.0 – 43.8	58.6	45.1 – 68.2	91	73 - 115	59.8	54.8 – 63.2	26.67	21.72 – 33.31
Sorghum Sudangrass	20.8	16.2 – 33.2	10.5	6.5 – 14.4	36.5	29.6 – 55.5	57.4	49.7 – 62.8	97	85 - 118	62.2	58.9 – 65.9	27.31	24.43 – 31.49
Teff	39.7	22.1 – 68.5	12.2	9.5 – 16.8	36.1	31.2 – 41.4	60.3	54.3 – 67.7	91	77 - 111	60.8	56.7 – 64.6	26.23	22.97 – 31.31

¹DM = dry matter, CP = crude protein, ADF = acid detergent fiber, NDF = neutral detergent fiber, RVF = relative feed value, TDN = total digestible nutrients, NEg = net energy for gain.

²Avg = average

Reported values are averages across years, sites, and cuttings.

Table 2. Average warm season forage mineral profiles ¹					
	Ca, %	P, %	Mg, %	K, %	S, %
Crabgrass	0.50	0.39	0.51	2.89	0.17
Japanese Millet	0.53	0.38	0.47	2.21	0.26
Pearl Millet	0.69	0.50	0.45	2.80	0.18
Sorghum Sudangrass	0.51	0.31	0.35	2.18	0.11
Teff	0.55	0.30	0.21	1.70	0.21

¹Ca = calcium, P = phosphorous, Mg = magnesium, K = potassium, S = sulfur

Reported values are averages across years, sites, and cuttings.

Table 3. Warm-Season Forage Crop Nutrient Removal*

Species	lbs P ₂ O ₅ removed/ton (15% moisture)	lbs K ₂ O removed/ton (15% moisture)
Crabgrass	15	59
Japanese Millet	15	45
Pearl Millet	19	57
Sorghum Sudangrass	12	45
Teff	12	35

* Nutrient removal based on nutrient content in quality data and averaged across 3 locations for 2019/2020

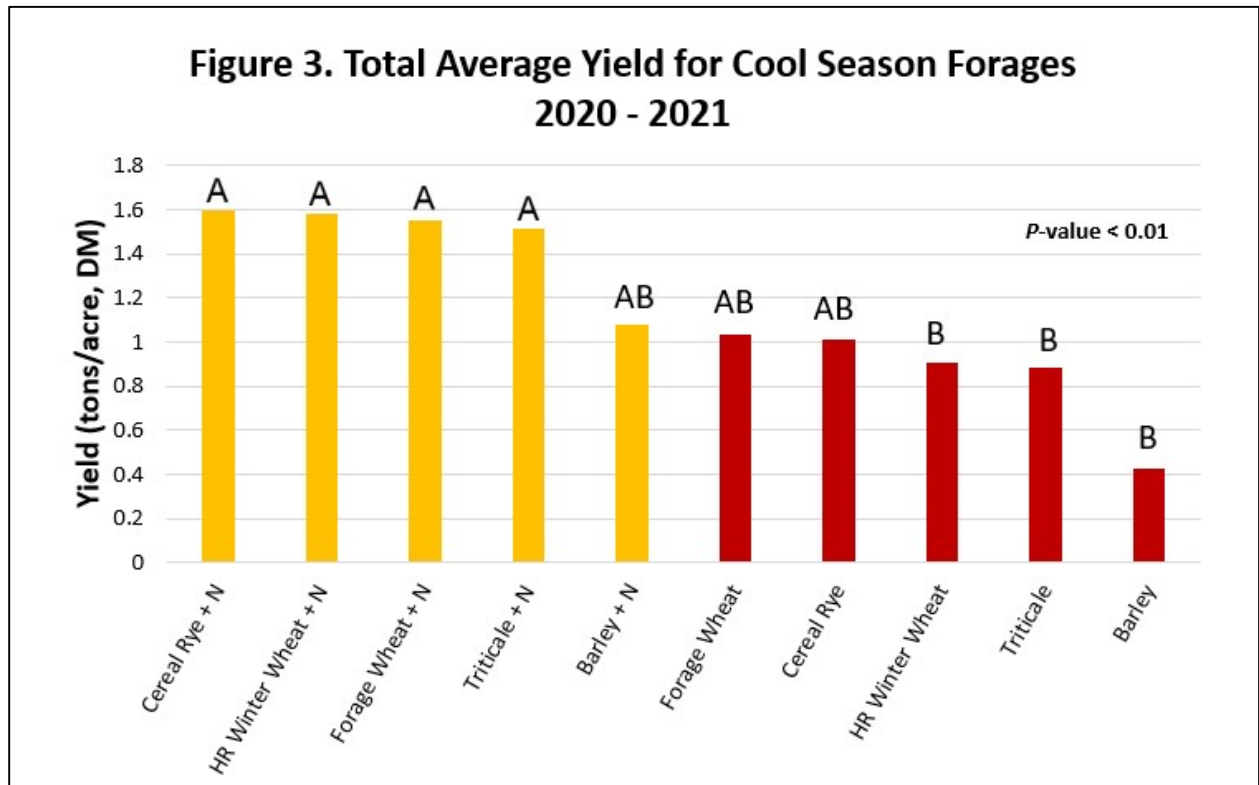
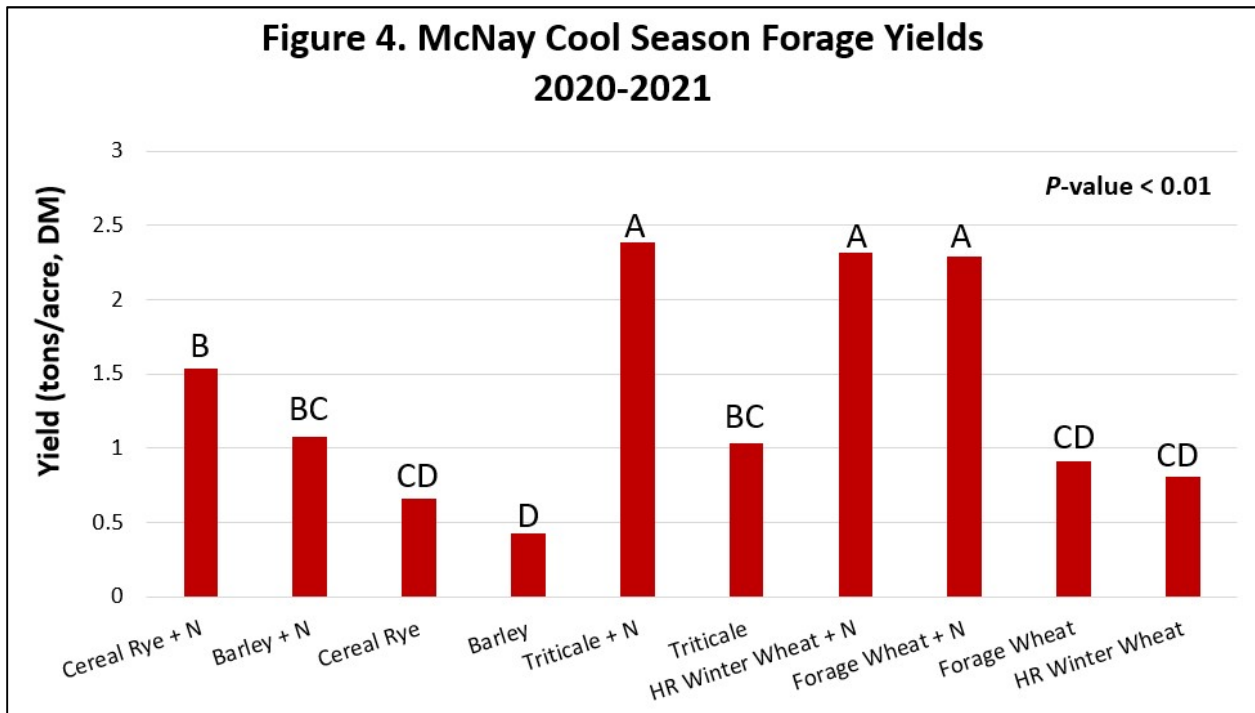


Table 4. McNay Cool Season Harvest Dates by Species

May 7, 2020	May 12, 2020	May 20, 2020
Cereal Rye Barley	Triticale	Forage Wheat Hard Red Winter Wheat
May, 14, 2021	May 24, 2021	
Cereal Rye Barley	Triticale Forage Wheat Hard Red Winter Wheat	

**Figure 4. McNay Cool Season Forage Yields
2020-2021**



	DM, %		CP, %		ADF, %		NDF, %		RVF		TDN, %		NEg, mcw/cwt	
	Avg ²	Range	Avg	Range	Avg	Range	Avg	Range	Avg	Range	Avg	Range	Avg	Range
Barley*	18.1	13.3 – 30.4	26.9	8.4 – 37.2	23.3	17.0 – 31.0	36.2	28.3 – 49.0	181	120 - 241	70.7	64.7 – 75.7	41.50	31.45 – 47.50
Cereal Rye	19.0	15.0 – 25.8	12.8	7.6 – 17.3	34.1	26.1 – 47.3	54.4	44.5 – 69.7	106	67 - 139	62.6	52.1 – 68.5	29.31	22.17 – 34.87
HR Winter Wheat	21.0	16.2 – 26.4	14.1	8.0 – 19.7	32.9	26.8 – 44.7	50.5	42.2 – 66.8	115	72 – 149	63.8	54.1 – 68.0	31.11	22.99 – 36.11
Triticale	18.6	14.6 – 23.6	13.8	7.5 – 19.2	32.5	25.5 – 44.3	50.7	40.9 – 68.9	117	72 – 153	64.3	54.6 – 69.1	31.11	23.08 – 36.45
Forage Wheat	21.1	16.0 – 25.6	14.4	9.63 – 18.3	33.2	26.7 – 43.1	49.9	40.6 – 62.8	116	78 - 152	63.0	55.3 – 68.1	31.44	25.54 – 36.72

¹DM = dry matter, CP = crude protein, ADF = acid detergent fiber, NDF = neutral detergent fiber, RVF = relative feed value, TDN = total digestible nutrients, NEg = net energy for gain.

²Avg = average

* Sampled barley was very immature compared to other cool season species, which likely explains the greater CP, RVF, TDN and NEg values as well as the lesser fiber values for this species.

Reported values are averages across years, sites, and cuttings.

	Ca, %	P, %	Mg, %	K, %	S, %
Barley*	0.66	0.41	0.17	3.38	0.32
Cereal Rye	0.29	0.37	0.12	2.82	0.26
HR Winter Wheat	0.30	0.35	0.29	2.86	0.17
Triticale	0.32	0.37	0.12	3.08	0.18
Forage Wheat	0.30	0.37	0.13	3.30	0.17

¹Ca = calcium, P = phosphorous, Mg = magnesium, K = potassium, S = sulfur

Reported values are averages across years, sites, and cuttings.

Table 7. Cool-Season Forage Crop Nutrient Removal*

Species	lbs P₂O₅ removed/ton (15% moisture)	lbs K₂O removed/ton (15% moisture)
Barley*	16	69
Cereal Rye	14	58
HR Winter Wheat	14	59
Triticale	14	63
Forage Wheat	14	68

* Nutrient removal based on nutrient content in quality data and averaged across 3 locations for 2020/2021