

Figure 1: Crop biomass by species composition for the first sampling across site-years. Same letters above bars indicate no significant differences in total crop biomass at  $P < 0.05$ . Lack of letters above bars indicate no significant differences between treatments. Crops are abbreviated by M, pearl millet; S, sorghum sudangrass; C, cowpea; and H, sunn hemp.

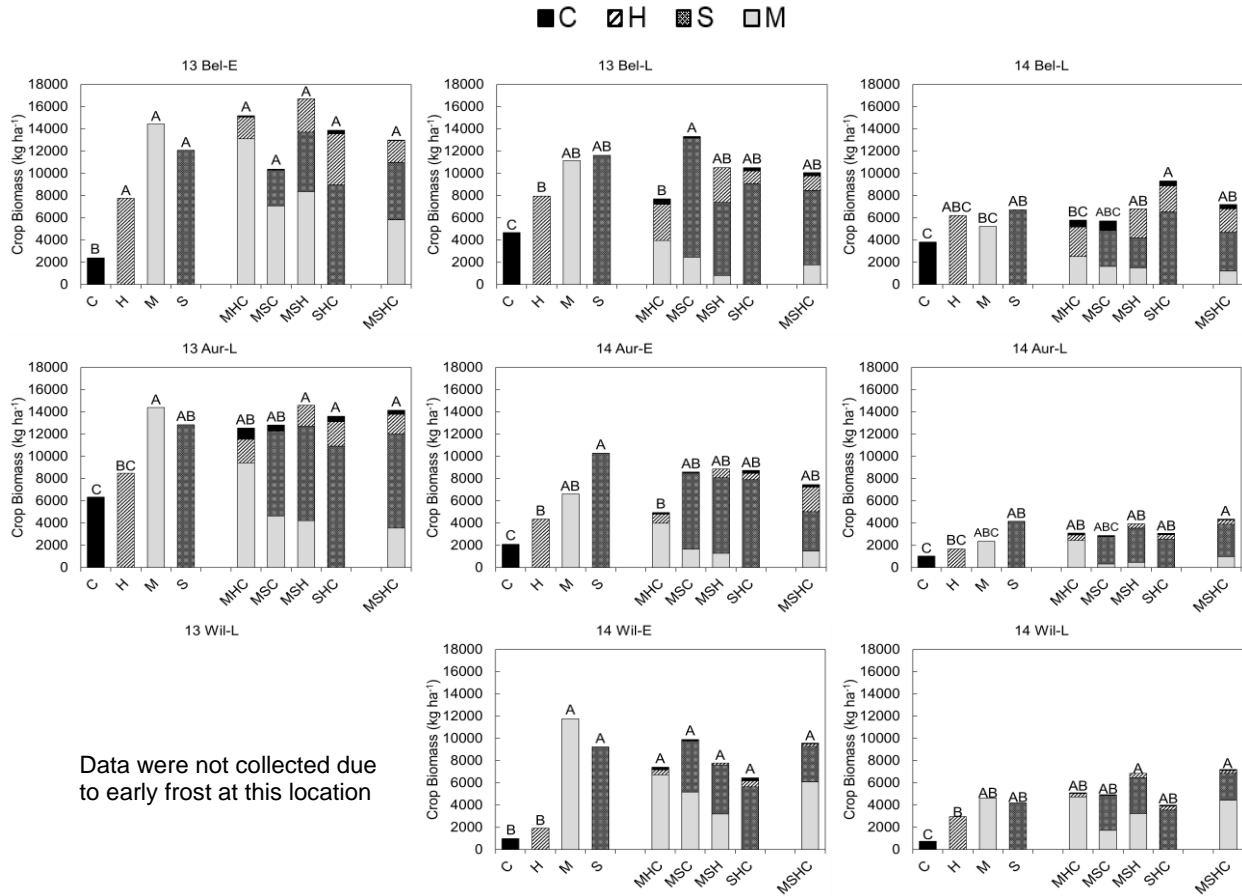


Figure 2: Crop biomass by species composition for the second sampling across site-year. A second sampling was not done at the 13 Wil-L site-year. Same letters above bars indicate no significant differences in total crop biomass at  $P < 0.05$ . Crops are abbreviated by M, pearl millet; S, sorghum sudangrass; C, cowpea; and H, sunn hemp.

Table 1. Forage quality, measured as neutral detergent fiber (NDF), acid detergent fiber (ADF), in vitro true digestibility (IVTD), and neutral detergent fiber digestion (NDFD), was analyzed for the early sampling (45-51 DAP) and the late sampling (77-96 DAP), which was before plants had reached maturity. Data were pooled across years and locations. Crops are abbreviated by M, pearl millet; S, sorghum sudangrass; C, cowpea; and H, sunn hemp. Similar letters after means within a column indicate no significant difference ( $P < 0.05$ ).

Crop	NDF%		ADF%		IVTD%		NDFD% NDF	
	Early	Late	Early	Late	Early	Late	Early	Late
C	32.6 <sup>c</sup>	42.9 <sup>b</sup>	22.7 <sup>b</sup>	31.1 <sup>c</sup>	89.9 <sup>a</sup>	82.8 <sup>a</sup>	69.6 <sup>b</sup>	59.5 <sup>c</sup>
H	43.5 <sup>b</sup>	59.8 <sup>a</sup>	33.5 <sup>a</sup>	46.9 <sup>a</sup>	76.8 <sup>b</sup>	63.2 <sup>c</sup>	47.3 <sup>c</sup>	38.9 <sup>d</sup>
M	63.2 <sup>a</sup>	65.6 <sup>a</sup>	34.3 <sup>a</sup>	37.9 <sup>b</sup>	85.5 <sup>a</sup>	73.4 <sup>b</sup>	77.1 <sup>a</sup>	59.1 <sup>c</sup>
S	62.8 <sup>a</sup>	63.4 <sup>a</sup>	33.8 <sup>a</sup>	36.0 <sup>bc</sup>	86.2 <sup>a</sup>	79.6 <sup>ab</sup>	78.0 <sup>a</sup>	67.3 <sup>a</sup>
MHC	56.9 <sup>a</sup>	64.6 <sup>a</sup>	33.8 <sup>a</sup>	39.5 <sup>b</sup>	85.1 <sup>a</sup>	73.1 <sup>b</sup>	74.0 <sup>ab</sup>	58.3 <sup>c</sup>
MSC	60.3 <sup>a</sup>	63.4 <sup>a</sup>	32.6 <sup>a</sup>	36.6 <sup>bc</sup>	86.7 <sup>a</sup>	78.3 <sup>ab</sup>	77.8 <sup>a</sup>	64.9 <sup>ab</sup>
MSH	60.7 <sup>a</sup>	64.0 <sup>a</sup>	34.1 <sup>a</sup>	37.9 <sup>b</sup>	85.0 <sup>a</sup>	76.0 <sup>ab</sup>	75.4 <sup>a</sup>	62.3 <sup>bc</sup>
SHC	57.0 <sup>a</sup>	62.0 <sup>a</sup>	33.0 <sup>a</sup>	37.3 <sup>b</sup>	85.2 <sup>a</sup>	77.8 <sup>ab</sup>	74.1 <sup>ab</sup>	63.8 <sup>ab</sup>
MSHC	57.7 <sup>a</sup>	63.7 <sup>a</sup>	32.8 <sup>a</sup>	38.0 <sup>b</sup>	85.5 <sup>a</sup>	76.2 <sup>ab</sup>	74.9 <sup>a</sup>	62.1 <sup>bc</sup>