

Table 1S. Biomass of forage or grains, prevailing climate and forage species used in intercropping systems to produce animal feed.

Authors ¹	Climate	Intercropped species	Biomass (kg ha ⁻¹)	
			Grains	Forage
(Ernawati et al., 2023)	Af	<i>Indigofera zollingeriana</i> / <i>Pennisetum purpureum</i>		36827
(Baghdadi et al., 2016)	Af	<i>Glycine max</i> / <i>Zea mays</i>		13883
		Mean		25355
		Standard Deviation		16224
(Fernandes et al., 2023)	Aw	<i>Zea mays</i> / <i>Cajanus cajan</i> / <i>Urochloa Brizantha</i>	4785	3726
(Sodré Filho et al., 2021)	Aw	<i>Glycine max</i> L. / <i>Sorghum bicolor</i> / <i>Urochloa brizantha</i> / <i>Urochloa</i> <i>ruziziensis</i>	2922	7948
(Dias et al., 2022)	Aw	<i>Urochloa brizantha</i> / <i>Urochloa</i> <i>ruziziensis</i> / <i>Megathyrsus</i> <i>maximum</i> / <i>Glycine max</i> L.		4683
(Oliveira et al., 2020)	Aw	<i>Sorghum bicolor</i> / <i>Urochloa</i> <i>Brizantha</i>	9500	-
(Cruz et al., 2020)	Aw	<i>Sorghum bicolor</i> / <i>Urochloa</i> <i>brizantha</i> / <i>Megathyrsus maximum</i> / <i>Phaseolus vulgaris</i>		15004
(Guarnieri et al., 2019)	Aw	<i>Brachiaria brizantha</i> / <i>Zea mays</i>	10112	3418
(Bessa et al., 2018)	Aw	<i>Urochloa brizantha</i> / <i>Phaseolus</i> <i>vulgaris</i> L. / <i>Zea mays</i>		17500
(Domingues et al., 2017)	Aw	<i>Urochloa brizantha</i> / <i>Zea mays</i>		12750
(Gazola et al., 2014)	Aw	<i>Urochloa brizantha</i> , <i>Urochloa</i> <i>ruziziensis</i> / <i>Zea mays</i>	7039	11293
(Saraiva et al., 2014)	Aw	<i>Glycine max</i> / <i>Urochloa brizantha</i> <i>Urochloa brizantha</i> , <i>Urochloa</i> <i>ruziziensis</i> , <i>Megatyrsus maximum</i> / <i>Zea mays</i>	2450	-
(Mendonça et al., 2014)	Aw	<i>Urochloa brizantha</i> / <i>Sorghum</i> <i>bicolor</i>	2800	22000
(Sousa et al., 2024)	Aw			1830
		Mean	5658	10262
		Standard Deviation	3246	6483
(Vieira et al., 2023)	BSh	<i>Cenchrus ciliaris</i> / <i>Moringa oleifera</i>		29400
(Lira et al., 2022)	BSh	<i>Opuntia stricta</i> / <i>Pennisetum</i> <i>glaucum</i>		22000
(Alves et al., 2022a)	BSh	<i>Nopalea cochenillifera</i> / <i>Opuntia</i> <i>stricta</i> / <i>Sorghum bicolor</i>		26563
(Alves et al., 2022b)	BSh	<i>Opuntia stricta</i> / <i>Pennisetum</i> <i>glaucum</i>		27023
(Souza et al., 2017)	BSh	<i>Clitoria ternatea</i> / <i>Cenchrus ciliares</i>		4000
(Zhang et al., 2015)	BSh	<i>Medicago sativa</i> L. / <i>Zea mays</i>		29653
(Ahmad et al., 2015)	BSh	<i>Glycine max</i> , <i>Vigna unguiculata</i> , <i>Phaseolus vulgaris</i> / <i>Zea mays</i>	4309	12550
		Mean	4309	21598
		Standard Deviation		9760

(Umesh et al., 2023)	BSk	<i>Zea mays</i> / <i>Sorghum bicolor</i> L. / <i>Lablab purpureus</i> L. / <i>Phaseolus</i> <i>lunatus</i> L.		19750
(Xu et al., 2022)	BSk	<i>Zea mays</i> / <i>Medicago sativa</i> / <i>Triticum aestivum</i> L.		19700 29600
(Ashoori et al., 2021)	BSk	<i>Trifolium alexandrinum</i> / <i>Sorghum</i> <i>bicolor</i>		22822
(Ghaffarian et al., 2021)	BSk	<i>Kochia scoparia</i> , (<i>Cyamopsiste</i> <i>tragonoliba</i> / <i>Sesbania aculeate</i>		5907
(Kahrarian et al., 2021)	BSk	<i>Vicia ervilia</i> / <i>Hordeum vulgare</i>	3280	5440
(Majidi Dizaj et al., 2015)	BSk	<i>Onobrychis vicifolia</i> Scop / <i>Medicago sativa</i> L.		4750
(Sadeghpour et al., 2014)	BSk	<i>Hordeum vulgare</i> L. / <i>Medicago</i> <i>scutellata</i> L.		3481
			Mean	3280
			Standard Deviation	13931
(Lal et al., 2024)	BWh	<i>Pennisetum villosum</i> / <i>Arachis</i> <i>pintoi</i>		2890
(Iqbal et al., 2018)	BWh	<i>Glycine max</i> L. / <i>Sorghum bicolor</i>		5550
			Mean	4220
			Standard Deviation	1882
(Kumar et al., 2021)	Cfa	<i>Lolium multiflorum</i> Lam. / <i>Trifolium alexandrinum</i>		10460
(Mthembu et al., 2018)	Cfa	<i>Lablab purpureus</i> / <i>Zea mays</i>	2277	7979
(Almeida et al., 2017)	Cfa	<i>Megatyrsus maximus</i> / <i>Zea mays</i>	6879	1777
(Bybee-Finley et al., 2016)	Cfa	<i>Pennisetum glaucum</i> / <i>Sorghum</i> <i>bicolor</i> × <i>S. sudanense</i> / <i>Vigna</i> <i>unquiculata</i> / <i>Crotalaria juncea</i>)		9706
(Miyazawa et al., 2014)	Cfa	<i>Sorghum bicolor</i> / <i>Helianthus</i> <i>annuus</i> L. / <i>Crotalaria juncea</i> L.		8730 7170 6750 8320
			Mean	4578
			Standard Deviation	7612
(Abera et al., 2022)	Cfb	<i>Vicia dasycarpa</i> / <i>Vicia villosa</i> / <i>Vicia sativa</i> / <i>Pennisetum</i> <i>glaucifolium</i>		3020
(Jiménez-Calderón et al., 2018)	Cfb	<i>Vicia faba</i> / <i>Brassica napus</i>		19000
(Andrzejewska et al., 2014)	Cfb	<i>Trifolium ambiguum</i> , <i>Triticosecale</i> <i>Wittmack</i> / <i>Secale cereale</i>		9436
			Mean	10485
			Standard Deviation	8042
(Tramacere et al., 2024)	Csa	<i>Hedysarum coronarium</i> L. / <i>Lolium</i> <i>multiflorum</i>		1876
(Aydemir and Kizilsimsek, 2019b)	Csa	<i>Glycine max</i> L. / <i>Sorghum bicolor</i>		2577
(Aydemir, 2019a)	Csa	<i>Glycine max</i> L. / <i>Zea mays</i>		16980
(Serbest et al., 2015)	Csa	<i>Glycine max</i> / <i>Zea mays</i>		10800
			Mean	8058
			Standard Deviation	7197

(Pereira et al., 2014)	Cwa	<i>Urochloa brizantha</i> / <i>Arachis pintoi</i>		20440
(Borghi et al., 2014)	Cwa	<i>Urochloa brizantha</i> / <i>Zea mays</i>	10544	7742
(Crusciol et al., 2014)	Cwa	<i>Glycine max</i> / <i>Urochloa brizantha</i>	2930	9450
(Ceccon and Concenço, 2014)	Cwa	<i>Urochloa ruziziensis</i> , <i>Megatyrsus maximus</i> , <i>Urochloa decumbens</i> , <i>Urochloa brizantha</i> / <i>Zea mays</i>		5449
			Mean	6737
			Standard Deviation	5384
				10770
(Santos et al., 2020)	Cwb	<i>Zea mays</i> / <i>Urochloa brizantha</i> / <i>Brachiaria Decumbens</i> / <i>Eucalyptus globulus Labill</i> / <i>Acacia mangium</i>		4288
(Sahoo et al., 2015)	Cwb	<i>Zea mays</i> / <i>Phaseolus vulgaris</i> / <i>Curcuma longa L.</i> / <i>Hibiscus sabdariffa L.</i>		4306
(Wu et al., 2014)	Cwb	<i>Solanum tuberosum L.</i> / <i>Zea mays</i>		17750
			Mean	11641
			Standard Deviation	6719
(Grabber et al., 2014)	Dfb	<i>Medicago sativa</i> / <i>Zea Mays</i>		17750
(Uher et al., 2024)	Dfb	<i>Phaseolus vulgaris L.</i> / <i>Sorghum bicolor L.</i>		19760
(Uher et al., 2019)	Dfb	<i>Zea mays</i> / <i>Phaseolus vulgaris L.</i>		19500
(Berti et al., 2021)	Dfb	<i>Medicago sativa</i> / <i>Zea Mays</i>		12250
(Živanov et al., 2018)	Dfb	<i>Vicia faba</i> / <i>Lupinus albus</i> / <i>Triticum aestivum L.</i>	3071	
			3700	
			Mean	3386
			Standard Deviation	445
				14900
(Kusvuran et al., 2014)	Das	<i>Vicia pannonica Crantz</i> / <i>Hordeum vulgare L.</i>		8030
			Mean	8030
			Standard Deviation	
(Jiao et al., 2024)	Dwb	<i>Avena sativa L.</i> / <i>Vicia sativa</i>		5220
(Wei et al., 2024)	Dwb	<i>Medicago ruthenica</i> / <i>Bromus inermis</i>		1961
			Mean	3591
			Standard Deviation	2304

¹The authors cited below were selected according to the PRISMA methodology

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