Sorghum-sudangrass (Sorghum bicolor x S. bicolor)

Sorghum-sudangrass has been widely used as a cover crop in the South. It produces the most biomass of the summer grasses and grains. It is heat and drought tolerant and an excellent scavenger of nutrients. It is very susceptible to white sugarcane aphid, which reduces the amount of biomass produced. Farmer experience indicates it may work better in a cover crop mixture to reduce sugarcane aphid pressure.

Recommended Varieties

Variety	Reasons Why	Source
Honey Graze	Brown Midrib (BMR) variety that produces good	Jimmy Carter and Jamie Whitten
	biomass.	Plant Materials Centers data
Super Sugar, Xtra Graze	Varieties rated as good yields with good	Georgia Forages
	resistance to sugarcane aphid	

Planting Information

Information	Comments	Source
Drilled Seed	1/2 - 1 1/2	Georgia Forages
Depth (inches)		
Drilled Seeding	15 - 20	Georgia Forages
Rate (lbs/acre)		
Broadcast	25 - 30	Georgia Forages
Seeding Rate		
(lbs/acre)		

Termination Information

Information	Source
Sorghum-sudangrass can be terminated by heavy grazing. Sorghum-sudangrass	Managing Cover Crops Profitably
can also be terminated by mowing, herbicides, and tillage. It will also winter kill. It	
can become very woody as it matures and heavy equipment may be needed to	
manage the residue. Termination timing depends on the following cash crop. It is usually terminated with herbicides if wheat is the following cash crop.	
Consult your local Extension and state Pest Management Handbook for herbicide recommendations. Always follow the herbicide label.	

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Cultural Traits

Traits		Comments	Source
Typical Dry Matter Range	8,000 - 10,000	Much higher dry matter range with irrigation.	Jimmy Carter Plant Materials Center data, Managing Cover
(lbs/acre)			Crops Profitably
Typical Total N	0		
Range (lbs/acre)			
Life Cycle	Summer annual	Late summer plantings can make	
	grass	considerable biomass before frost.	
Growth Habit	Upright		
Preferred Soil pH	6.0 - 7.0	Not as acid tolerant as millets	Managing Cover Crops
			Profitably
Relative Seed	\$\$\$		Based on survey of seed costs
Cost (\$/acre)			using maximum price and max
			seeding rate
Min. Germination	65°		
Temp (F)			
Cautions	Severe infestation		
		n inhibit the growth of many other plant	
	species. If it is wi		
		ate and create problems for grazing. Can	
		ninated early enough and reseeding can	
		ssue. Mature biomass has a very high C:N	
	· · · · · · · · · · · · · · · · · · ·	a a legume (such as cowpea) can mitigate	
	possible nitrogen		

Forage Traits

Information	Source
Sorghum-sudangrass have the highest yield potential of any of the summer annuals. It can be grazed or harvested as baleage or silage. Although it can be used for hay production, it can be more difficult to dry than other summer annuals Grazing should begin when plants are 24 inches height. Performs best under	Georgia Forages
Sorghum-sudangrass might contain toxic levels of nitrates and prussic acid under stress conditions (drought, frost/freeze, etc.). Horses should not be fed forage from the sorghum family. Brown midrib varieties are preferred as forage source due to the lower lignin and higher digestibility than other varieties.	
If crops are grazed instead of harvested as grain, check that all pesticides applied to the crop are labeled for grazing livestock.	

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Sources:

Georgia Forages: https://georgiaforages.caes.uga.edu/species-and-varieties/warm-season/sorghums.html

Jimmy Carter Plant Materials Center Annual Reports:

https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ga/plantsanimals/?cid=nrcs144p2 022076

Managing Cover Crops Profitably: https://www.sare.org/Learning-Center/Books