

Pasture and Hayland Suitability Group – 7A

Soil Group Description

Upland soils with mostly clayey surface layers. Poorly drained to well drained, alkaline soils with clayey subsoils. Fertility is low.

Slope

0-20% slopes. Most slopes are 1-8% and very few exceed 12%.

Management Interpretations

Fertilizer is needed on improved pasture. These soils have poor physical properties.

Adapted Grasses and Legumes

Johnsongrass is the better adapted hay plant. Bluestem is the better adapted warm season perennial for grazing on these soils. Bahiagrass does fairly well. Without fertilization these soils will normally support a cover of little bluestem, indiagrass, brown paspalum, low panicums and carpetgrass. When managed for native pasture, 5 to 8 acres are normally required to provide enough forage for an animal unit yearlong. Periodic brush control is needed to keep from reverting to brush.

Production Estimates – Use production estimates to determine the annual or seasonal amount of forage available for grazing. The harvest efficiency has been predetermined, thus forage production reflects the total amount of forage available for grazing, not the total amount of forage. The production table on page 2 shows the estimated yield for common forages grazed in Louisiana. Not all forages are depicted in the table. The yield is shown as pounds/acre and AUMs/acre for north and south Louisiana. North La. represents the parishes north of Vernon, Rapides, and Avoyelles parishes. South La. represents the parishes south of Vernon, Rapides, and Avoyelles northern boundary.

Reference Information

N rate – Low (**L**) =33-66, Medium (**M**) =100-200, High (**H**) =200-300, Very High (**VH**) =300+

1 Animal Unit Month (AUM) = 790 lbs.

1 Animal Unit Day (AUD) = 26 lbs.

1 Animal Unit Year (AUY) = 9490 lbs.

12 AUM/Acre=1 acre/animal unit

6 AUM/Acre=2 acres/animal unit

4 AUM/Acre=3 acres/animal unit

3 AUM/Acre=4 acres/animal unit

2 AUM/Acre=6 acres/animal unit

Production Estimates – North & South LA Tables

Growth Curves - % per Month

Crop	N	#'s/Acre North LA	AUM's /Acre North LA	#'s/Acre South LA	AUM's /Acre South LA	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Johnsongrass	VH	10,033	12.7	10,191	12.9	0	0	0	8	26	27	19	13	5	2	0	0
Johnsongrass	H	8,532	10.8	8,690	11.0	0	0	0	8	26	27	19	13	5	2	0	0
Johnsongrass	M	5,214	6.6	5,372	6.8	0	0	0	8	26	27	19	13	5	2	0	0
Bahiagrass	M	4,108	5.2	4,266	5.4	0	0	0	3	15	32	31	12	5	2	0	0
Bahiagrass	L	3,555	4.5	3,713	4.7	0	0	0	3	15	32	31	12	5	2	0	0
Bahiagrass	0	2,133	2.7	2,291	2.9	0	0	0	0	0	15	25	35	25	0	0	0