

Pasture and Hayland Suitability Group – 3A

Soil Group Description

Sandy soils of low or medium natural fertility and with low or very low available water capacity.

Slope

0-5%. Most soils occur on 0-3% slopes.

Management Interpretations

Fertilizer is needed. These soils are droughty. Establishment may be difficult due to low soil moisture capacity.

Adapted Grasses and Legumes

Hybrid bermuda is the better adapted plant on these soils. Pensacola bahiagrass and common bermuda can be grown. Without fertilization these soils will support a cover of little bluestem, knotroot bristlegrass, threeawns, and bermudagrass. When grazed in rotation system where rests are less than 8 weeks, bermudagrass usually dominates. When managed as native pasture, it normally requires 6 to 8 acres to produce enough forage for an animal unit yearlong. Periodic brush control is needed to keep the area from reverting to woodland.

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.
Hybrid Bermudagrass	VH	12,008	15.2	12,561	15.9	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	H	9,480	12.0	9,954	12.6	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	M	6,083	7.7	6,399	8.1	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass and White clover	L	7,189	9.1	9,322	11.8	0	0	4	12	24	25	18	12	4	1	0	0
Hybrid Bermudagrass and White clover	0	6,557	8.3	7,110	9.0	0	0	4	12	24	25	18	12	4	1	0	0
Common Bermudagrass and White clover	L	4,898	6.2	5,451	6.9	0	0	5	15	23	23	17	11	4	2	0	0
Common Bermudagrass and White clover	0	4,029	5.1	4,503	5.7	0	0	5	15	23	23	17	11	4	2	0	0
Ryegrass and oats	H	6,399	8.1	8,058	10.2	3	3	20	25	30	0	0	0	0	0	11	8
Ryegrass and oats	M	4,503	5.7	5,609	7.1	3	3	20	25	30	0	0	0	0	0	11	8
Bahiagrass and White Clover	L	6,715	8.5	7,505	9.5	0	0	5	15	23	23	17	11	4	2	0	0
Bahiagrass and White Clover	0	5,135	6.5	5,767	7.3	0	0	5	15	23	23	17	11	4	2	0	0
Common Bermudagrass	M	4,266	5.4	4,819	6.1	0	0	0	3	15	32	31	12	5	2	0	0
Common Bermudagrass	L	3,476	4.4	4,029	5.1	0	0	0	3	15	32	31	12	5	2	0	0
Common Bermudagrass	0	2,449	3.1	2,923	3.7	0	0	0	3	15	32	31	12	5	2	0	0
Bahiagrass	H	6,083	7.7	9,480	12	0	0	0	3	15	32	31	12	5	2	0	0
Bahiagrass	M	5,214	6.6	7,031	8.9	0	0	0	3	15	32	31	12	5	2	0	0
Bahiagrass	L	3,318	4.2	6,162	7.8	0	0	0	3	15	32	31	12	5	2	0	0