

Pasture and Hayland Suitability Group – 8E

Soil Group Description

Deep upland soils with mainly loamy surface layers and clayey subsoils. Mainly well drained to somewhat poorly drained, acid soils of low natural fertility that occur on steep slopes or have severe erosion.

Slope

1-30% slopes. Most soils are in the 12-30% range. Those slopes in the 1-12% ranges are irregular and occur associated with slopes that are 12-30%.

Management Interpretations

Fertilizer is needed on improved pastures. Peas and vetch will tolerate fairly acid soil conditions. To prevent excessive subsoil acidity when high rates of acidifying nitrogen fertilizer are used, the surface soil should not be allowed to become more acid than 5.0 pH and lime should be applied at more frequent intervals. Steep slopes and severe erosion create equipment limitations. These conditions make erosion a hazard.

Adapted Grasses and Legumes

Bahia, common bermuda, ball clover and crimson clover are the better adapted species on these soils. Without fertilization these soils will normally support a cover of Pinehill bluestem, slender bluestem, threeawns and carpetgrass. Due to steepness of slope and degree of erosion, forage production is very limited and 14 to 18 acres are usually required to furnish enough grazing for an animal unit yearlong.

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.
Common Bermudagrass and Crimson clover	L	4,029	5.1	4,345	5.5	0	0	5	15	23	23	17	11	4	2	0	0
Common Bermudagrass and Crimson clover	0	3,397	4.3	3,397	4.3	0	0	5	15	23	23	17	11	4	2	0	0
Common Bermudagrass	M	3,081	3.9	3,239	4.1	0	0	0	3	15	32	31	12	5	2	0	0
Common Bermudagrass	L	2,449	3.1	2,528	3.2	0	0	0	3	15	32	31	12	5	2	0	0
Common Bermudagrass	0	1,817	2.3	1,896	2.4	0	0	0	3	15	32	31	12	5	2	0	0
Bahia	M	4,424	5.6	4,661	5.9	0	0	0	3	15	32	31	12	5	2	0	0
Bahia	L	3,792	4.8	4,029	5.1	0	0	0	3	15	32	31	12	5	2	0	0
Bahia	0	2,370	3.0	2,449	3.1	0	0	0	3	15	32	31	12	5	2	0	0
Bahiagrass and Crimson Clover	L	5,372	6.8	5,767	7.3	0	0	5	15	23	23	17	11	4	2	0	0
Bahiagrass and Crimson Clover	0	4,187	5.3	4,582	5.8	0	0	5	15	23	23	17	11	4	2	0	0