

Pasture and Hayland Suitability Group – 2E

Soil Group Description

Bottomland soils in a ridge and slough landscape. The soils are variable textured. Natural fertility is high or medium.

Slope

0-5%. Only a few soils occur on 3 to 5% slopes and the topography is undulating.

Management Interpretations

Nitrogen is needed on all soils for grasses grown alone. Phosphorus, calcium, and potassium levels are usually adequate on most of these soils. Drainage is needed on many of these soils. Wetness is a limiting factor in grazing winter annuals on these soils. Sloughs need drainage but adequate drainage is, generally difficult to get due to short and irregular slopes.

Adapted Grasses and Legumes

Bermudagrass, johnsongrass, and bahia grow well if surface drainage is adequate. Fescue is adapted and can be grown. Fescue needs annual applications of nitrogen and should not be grazed in the summer. Without fertilization these soils will normally support a cover of little bluestem, switchgrass, indiagrass, wildryes, carpetgrass and bermuda grass. Periodic brush control is needed to prevent 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	11,771	14.9	12,324	15.6	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	H	9,954	12.6	10,349	13.1	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	M	8,137	10.3	8,453	10.7	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass and White clover	L	10,112	12.8	10,665	13.5	0	0	4	12	24	25	18	12	4	1	0	0
Hybrid Bermudagrass and White clover	0	8,532	10.8	8,927	11.3	0	0	4	12	24	25	18	12	4	1	0	0
Common Bermudagrass and White clover	L	7,979	10.1	8,295	10.5	0	0	5	15	23	23	17	11	4	2	0	0
Common Bermudagrass and White clover	0	6,873	8.7	7,189	9.1	0	0	5	15	23	23	17	11	4	2	0	0
Johnsongrass	VH	10,586	13.4	11,139	14.1	0	0	0	8	26	27	19	13	5	2	0	0
Johnsongrass	H	9,085	11.5	9,559	12.1	0	0	0	8	26	27	19	13	5	2	0	0
Johnsongrass	M	5,767	7.3	6,083	7.7	0	0	0	8	26	27	19	13	5	2	0	0
Ryegrass and oats	H	7,505	9.5	7,900	10.0	3	3	20	25	30	0	0	0	0	0	11	8
Ryegrass and oats	M	5,372	6.8	5,609	7.1	3	3	20	25	30	0	0	0	0	0	11	8
Tall Fescue and White clover	L	7,584	9.6			3	3	15	16	25	0	0	0	0	14	13	11
Tall Fescue and White clover	0	6,083	7.7			3	3	15	16	25	0	0	0	0	14	13	11
Dallisgrass and White Clover	L	7,584	9.6	7,900	10.0	0	0	6	17	18	17	17	15	8	2	0	0
Dallisgrass and White Clover	0	6,478	8.2	6,794	8.6	0	0	6	17	18	17	17	15	8	2	0	0
Bahiagrass and White Clover	L	7,584	9.6	7,900	10.0	0	0	5	15	23	23	17	11	4	2	0	0
Bahiagrass and White Clover	0	6,478	8.2	6,794	8.6	0	0	5	15	23	23	17	11	4	2	0	0
Sorghum-Sudan	M	7,900	10.0	8,295	10.5	0	0	0	0	0	15	25	35	25	0	0	0