

Pasture and Hayland Suitability Group – 2D

Soil Group Description

Bottomland soils that mainly have loamy surface layers and loamy subsoils. Mainly well or moderately well drained, acid, bottomland soils of low or medium natural fertility. Includes somewhat poorly drained soils and some soils that are subject to rare or occasional overflow for brief periods.

Slope

0-5%. Only a few soils occur on 3 to 5% slopes.

Management Interpretations

Fertilizer is needed on improved pasture. Legumes require higher phosphorus and potassium levels than grasses, and lime may be needed for legumes such as white clover. Peas and vetch will tolerate fairly acid conditions. Maintain a soil pH range of 5.2 to 5.7 for the species shown. Drainage may be needed in lows.

Adapted Grasses and Legumes

Hybrid bermuda, common bermuda, bahia and johnsongrass are the better adapted warm season perennials. White clover is the better cool season legume. Winter peas, vetch and red clover are well adapted. Fescue is adapted and can be used on these soils with good management. Fescue needs annual applications of nitrogen and should not be grazed in the summer. Without fertilization these soils will normally support a cover of switchgrass, indiagrass, wildryes, lespedeza and bermudagrass.

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	13,351	16.9	13,983	17.7	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	H	11,376	14.4	11,929	15.1	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	M	9,243	11.7	9,638	12.2	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass and White clover	L	11,376	14.4	11,850	15.0	0	0	4	12	24	25	18	12	4	1	0	0
Hybrid Bermudagrass and White clover	0	9,875	12.5	10,428	13.2	0	0	4	12	24	25	18	12	4	1	0	0
Common Bermudagrass	L	9,085	11.5	9,322	11.8	0	0	0	3	15	32	31	12	5	2	0	0
Common Bermudagrass	0	7,742	9.8	7,900	10.0	0	0	0	3	15	32	31	12	5	2	0	0
Common Bermudagrass over- seeded ryegrass	H	9,717	12.3	10,033	12.7	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	9,006	11.4	9,480	12.0	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
Millet	M	5,293	6.7	5,767	7.3	0	0	0	0	0	0	22	43	35	0	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
Bahiagrass , Peas and Vetch	L	9,638	12.2	10,112	12.8	0	0	5	15	23	23	17	11	4	2	0	0
Bahiagrass, Peas and Vetch	0	6,636	8.4	7,031	8.9	0	0	5	15	23	23	17	11	4	2	0	0