

Pasture and Hayland Suitability Group – 2C

Soil Group Description

Deep bottomland soils with loamy surface layers and loamy subsoils. Somewhat poorly drained to well drained alkaline bottomland soils of high natural fertility.

Slope

0-8% slopes. Most slopes are 0-3%. Only a few soils occur on 3-5% slopes.

Management Interpretations

Nitrogen fertilization is needed for grasses grown alone. Where high rates of acidifying nitrogen fertilizers are used annually, soil test should be made periodically.

Adapted Grasses and Legumes

Hybrid bermuda, common bermuda, Pensacola bahia and johnsongrass are the better adapted warm season perennials. White clover is the better cool season legume. Winterpeas, 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.

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.
Alfalfa	0	12,087	15.3			0	0	0	16	25	21	20	13	5	0	0	0
Hybrid Bermudagrass	VH	14,773	18.7	15,484	19.6	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	H	12,561	15.9	13,193	16.7	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	M	10,191	12.9	10,665	13.5	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass and White clover	L	12,403	15.7	13,035	16.5	0	0	4	12	24	25	18	12	4	1	0	0
Hybrid Bermudagrass and White clover	0	10,665	13.5	11,218	14.2	0	0	4	12	24	25	18	12	4	1	0	0
Hybrid Bermudagrass over- seeded ryegrass	H	14,378	18.2	14,615	18.5	1	1	7	9	23	22	16	12	4	2	0	3
Common Bermudagrass and White clover	L	9,796	12.4	10,349	13.1	0	0	5	15	23	23	17	11	4	2	0	0
Common Bermudagrass and White clover	0	8,295	10.5	8,848	11.2	0	0	6	18	22	21	16	11	4	2	0	0
Ryegrass overseeded on Bermudagrass	M	10,665	13.5	11,376	14.4	1	2	10	13	20	21	16	10	4	1	0	2
Johnsongrass	VH	13,272	16.8	13,509	17.1	0	0	0	8	26	27	19	13	5	2	0	0
Johnsongrass	H	11,297	14.3	11,455	14.5	0	0	0	8	26	27	19	13	5	2	0	0
Johnsongrass	M	7,189	9.1	7,347	9.3	0	0	0	8	26	27	19	13	5	2	0	0
Millet	M	5,293	6.7	5,846	7.4	0	0	0	0	0	0	22	43	35	0	0	0
Pensacola Bahia Peas and vetch	L	10,270	13	10,823	13.7	0	0	4	10	14	18	24	18	8	4	0	0
Pensacola Bahia Peas and vetch	0	6,952	8.8	7,347	9.3	0	0	6	15	20	15	19	15	7	3	0	0
Ryegrass and oats	H	7,821	9.9	8,295	10.5	3	3	20	25	30	0	0	0	0	0	11	8
Ryegrass and oats	M	5,609	7.1	5,846	7.4	3	3	20	25	30	0	0	0	0	0	11	8
Tall Fescue and White clover	L	8,611	10.9			3	3	15	16	25	0	0	0	0	14	13	11
Tall Fescue and White clover	0	6,952	8.8			3	3	15	16	25	0	0	0	0	14	13	11
Dallisgrass and White Clover	L	9,464	11.9	10,039	12.7	0	0	6	17	18	17	17	15	8	2	0	0
Dallisgrass and White Clover	0	8,024	8.2	8,348	10.5	0	0	6	17	18	17	17	15	8	2	0	0