

## **Pasture and Hayland Suitability Group – 9A**

### **Soil Group Description**

Sandy upland soils that have thick sandy surface layers and sandy or loamy subsoils. These soils are acid and have very low natural fertility. The available water capacity is low or very low.

### **Slope**

Slope may be from 0-20%. Most slopes are 0-8%. Only a few soils occur on 8-20% slopes.

### **Management Interpretations**

Fertilizer is needed on improved pastures. Lime is needed for most legumes. Lime as need is shown on soil analysis. When high rates of acidifying nitrogen fertilizer are used, apply lime at more frequent intervals. These soils are very droughty. Plant nutrients may be leached out during periods of heavy rainfall. Establishment is difficult due to low soil moisture capacity.

### **Adapted Grasses and Legumes**

Improved bermuda is the better adapted plant on these soils. These soils have a low productive potential for bahia. The productive potential is moderate for hybrid bermudagrass such as coastal and for crimson clover. Without fertilization, these soils will normally support a cover of Pinehill bluestem, slender bluestem, threeawns, broomsedge, carpet and bermudagrass. When managed as a native pasture, production is low and 10 to 12 acres are normally 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 (AU) = 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	9,638	12.2	10,191	12.9	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	H	7,663	9.7	7,900	10	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	M	4,898	6.2	5,135	6.5	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass and Crimson clover	L	7,742	9.8	8,216	10.4	0	0	4	12	24	25	18	12	4	1	0	0
Hybrid Bermudagrass and Crimson clover	0	5,293	6.7	5,767	7.3	0	0	4	12	24	25	18	12	4	1	0	0
Ryegrass and oats	H	5,846	7.4	6,241	7.9	3	3	20	25	30	0	0	0	0	0	11	8
Ryegrass and oats	M	3,871	4.9	4,266	5.4	3	3	20	25	30	0	0	0	0	0	11	8
Bahiagrass and Crimson Clover	L	6,004	7.6	6,794	8.6	0	0	5	15	23	23	17	11	4	2	0	0
Bahiagrass and Crimson Clover	0	4,661	5.9	5,293	6.7	0	0	5	15	23	23	17	11	4	2	0	0
Bahia	M	4,819	6.1	6,004	7.6	0	0	0	3	15	32	31	12	5	2	0	0
Bahia	L	4,187	5.3	5,293	6.7	0	0	0	3	15	32	31	12	5	2	0	0
Bahia	0	2,686	3.4	3,318	4.2	0	0	0	3	15	32	31	12	5	2	0	0