

## **Pasture and Hayland Suitability Group – 8F**

### **Soil Group Description**

Silty upland and stream terrace soils that formed in loess or silty alluvium. The soils have a silty surface layer and silty or clayey subsoil. Somewhat poorly drained, acid soils of low or medium natural fertility.

### **Slope**

0-5% slopes

### **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 and lime should be applied at more frequent intervals. A soil pH range of 5.2 to 5.7 is adequate for the species shown. Drainage may be needed in lows. Wetness is a limiting factor in grazing winter annuals on these soils.

### **Adapted Grasses and Legumes**

Bahia and common bermuda are adapted. The adapted cool season legumes are white clover, winter peas, and vetch. White clover requires a higher level of calcium and phosphorus than peas or vetch. Tall fescue does well on these soils if good management is applied. Without fertilization, these soils will normally support a cover of little bluestem, slender bluestem, threeawns, broomsedge and carpetgrass.

**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	10,823	13.7	11,375	14.4	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	H	8,532	10.8	8,927	11.3	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass	M	5,530	7	5,767	7.3	0	0	0	8	26	27	19	13	5	2	0	0
Hybrid Bermudagrass and White clover	L	5,688	7.2	6,399	8.1	0	0	4	12	24	25	18	12	4	1	0	0
Common Bermudagrass and White clover	L	4,511	5.71	5,372	6.8	0	0	5	15	23	23	17	11	4	2	0	0
Common Bermudagrass and White Clover	0	3,397	4.3	4,266	5.4	0	0	5	15	23	23	17	11	4	2	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	3,950	5	4,266	5.4	3	3	20	25	30	0	0	0	0	0	11	8
Tall Fescue and White clover	L	4,740	6			3	3	15	16	25	0	0	0	0	14	13	11
Tall Fescue and White clover	0	3,871	4.9			3	3	15	16	25	0	0	0	0	14	13	11
Bahiagrass and White Clover	L	6,083	7.7	6,952	8.8	0	0	5	15	23	23	17	11	4	2	0	0
Bahiagrass and White Clover	0	4,424	5.6	5,451	6.9	0	0	5	15	23	23	17	11	4	2	0	0
Common Bermudagrass	M	3,950	5	4,108	5.2	0	0	0	3	15	32	31	12	5	2	0	0
Common Bermudagrass	L	3,160	4	3,318	4.2	0	0	0	3	15	32	31	12	5	2	0	0
Common Bermudagrass	0	2,212	2.8	3,239	4.1	0	0	0	3	15	32	31	12	5	2	0	0
Bahia	M	5,451	6.9	5,767	7.3	0	0	0	3	15	32	31	12	5	2	0	0
Bahia	L	4,661	5.9	4,977	6.3	0	0	0	3	15	32	31	12	5	2	0	0
Bahia	0	3,081	3.9	3,239	4.1	0	0	0	3	15	32	31	12	5	2	0	0
Ryegrass overseeded on Common Bermuda	M	4,345	5.5	4,740	6	2	2	12	16	16	20	12	10	4	2	0	4
Ryegrass overseeded on Bahia grass	M	5,846	7.4	6,162	7.8	1	2	8	11	11	15	20	18	7	3	1	3