

## SORGHUM FOR SILAGE

Tifton, Georgia:

### Evaluation of Sorghum Hybrids for Silage, 2006

| Company or<br>Brand Name       | Hybrid Name<br>or Number | Forage Yields     |                   | Plant<br>Height | Dry<br>Matter | Stage | 2-Yr. Avg<br>Dry Yield |
|--------------------------------|--------------------------|-------------------|-------------------|-----------------|---------------|-------|------------------------|
|                                |                          | Dry               | Green             |                 |               |       |                        |
|                                |                          | --- tons/acre --- |                   | in              | %             |       | tons/acre              |
| SS                             | SS-85F                   | <b>4.8</b>        | 20.9              | 113             | 23            | .     | 5.2                    |
| Southern States                | SS1515F                  | <b>4.6</b>        | 19.8              | 84              | 23            | .     | <b>6.1</b>             |
| FL                             | Mar. F81-4               | <b>4.4</b>        | <b>24.6</b>       | 116             | 18            | .     | .                      |
| Moss                           | 4Ever Green              | 4.2               | <b>24.7</b>       | 120             | 17            | .     | <b>5.6</b>             |
| AgraTech                       | 86S                      | 4.1               | 14.4              | 111             | 28            | .     | <b>6.3</b>             |
| AgraTech                       | 3123F                    | 4.0               | 19.9              | 98              | 20            | .     | .                      |
| AgraTech                       | 8208F BMR                | 3.7               | 13.6              | 110             | 28            | .     | .                      |
| Moss                           | 4Ever Green BMR          | 3.4               | 19.0              | 110             | 18            | .     | 4.4                    |
| AgraTech                       | 9161F                    | 3.2               | 18.4              | 117             | 17            | .     | .                      |
| Pennington                     | Summergrazer III         | 2.8               | 10.7              | 104             | 26            | .     | 4.7                    |
| Moss                           | Millennium BMR           | 2.7               | 12.4              | 116             | 22            | .     | 3.5                    |
| FL                             | Fla. 05MGBN-7            | 2.4               | 9.7               | 81              | 25            | .     | .                      |
| Average                        |                          | 3.7 <sup>1</sup>  | 17.3 <sup>2</sup> | 107             | 22            | .     | 5.1                    |
| LSD at 10% Level               |                          | 0.5               | 2.4               | 8               | 2             |       | 1.0                    |
| Std. Err. of Entry Mean        |                          | 0.2               | 1.0               | 3               | 1             |       | 0.4                    |
| <u>Ratoon or Regrowth Crop</u> |                          |                   |                   |                 |               |       |                        |
| Moss                           | 4Ever Green              | <b>2.9</b>        | <b>17.7</b>       | 121             | 16            | 1.0   | <b>3.6</b>             |
| Pennington                     | Summergrazer III         | <b>2.6</b>        | 11.6              | 128             | 23            | 4.0   | <b>3.5</b>             |
| Southern States                | SS1515F                  | <b>2.3</b>        | 13.2              | 90              | 17            | 1.0   | <b>2.8</b>             |
| SS                             | SS-85F                   | 2.2               | 12.3              | 114             | 18            | 1.0   | <b>3.0</b>             |
| Moss                           | Millennium BMR           | 1.8               | 9.9               | 114             | 18            | 1.3   | 2.4                    |
| Moss                           | 4Ever Green BMR          | 1.9               | 11.8              | 108             | 16            | 1.0   | 2.2                    |
| AgraTech                       | 86S                      | 3.3               | 13.6              | 126             | 24            | 3.3   | <b>3.7</b>             |
| FL                             | Mar. F81-4               | 2.7               | 14.2              | 104             | 20            | 1.0   | .                      |
| AgraTech                       | 3123F                    | 2.4               | 14.8              | 92              | 16            | 1.8   | .                      |
| AgraTech                       | 8208F BMR                | 2.1               | 11.2              | 111             | 18            | 1.5   | .                      |
| AgraTech                       | 9161F                    | 2.0               | 12.6              | 117             | 16            | 1.0   | .                      |
| FL                             | Fla. 05MGBN-7            | 1.2               | 6.3               | 57              | 20            | 1.0   | .                      |
| Average                        |                          | 2.3 <sup>3</sup>  | 12.4 <sup>4</sup> | 107             | 18            | 1.6   | 3.0                    |
| LSD at 10% Level               |                          | 0.7               | 2.4               | 8               | 4             | 0.6   | 1.0                    |
| Std. Err. of Entry Mean        |                          | 0.3               | 1.0               | 3               | 2             | 0.2   | 0.3                    |

1. CV = 12.2% and df for EMS = 33.

2. CV = 11.7% and df for EMS = 33.

3. CV = 24.8% and df for EMS = 33.

4. CV = 16.1% and df for EMS = 33.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: June 15, 2006.

Harvested: August 1, 2006.

Ratoon or Regrowth Crop: September 22, 2006.

Seeding Rate: 140,000 seed/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = High, K = Medium, and pH = 5.1.

Fertilization: Preplant: 60 lb N, 75 lb P<sub>2</sub>O<sub>5</sub>, and 112 lb K<sub>2</sub>O/acre. Sidedress: 81 lb N/acre.

Previous Crop: Sorghum sudan.

Management: Paratilled and rototilled; Atrazine and three cultivations used for weed control; Lorsban used for insect control.

Test conducted by A. E. Coy, R. Brooke, and R. Jackson.

## Griffin, Georgia: Evaluation of Sorghum Hybrids for Silage, 2006

| Company or<br>Brand Name | Hybrid Name<br>or Number | Forage Yields            |             | Plant<br>Height<br>in | Dry<br>Matter<br>% | 2-Yr. Avg<br>Dry Yield<br>tons/acre |
|--------------------------|--------------------------|--------------------------|-------------|-----------------------|--------------------|-------------------------------------|
|                          |                          | Dry<br>--- tons/acre --- | Green       |                       |                    |                                     |
| FL                       | Mar. F81-4               | <b>6.9</b>               | <b>29.0</b> | 122                   | 24                 | .                                   |
| Moss                     | 4Ever Green              | <b>6.4</b>               | <b>33.8</b> | 119                   | 19                 | 6.5                                 |
| SS                       | SS-85F                   | <b>6.3</b>               | 22.9        | 75                    | 27                 | 6.2                                 |
| Southern States          | SS1515F                  | <b>5.9</b>               | 21.1        | 71                    | 28                 | 6.5                                 |
| AgraTech                 | 9161F                    | 5.0                      | 21.0        | 112                   | 23                 | .                                   |
| Moss                     | 4Ever Green BMR          | 5.0                      | 25.1        | 116                   | 20                 | 4.9                                 |
| Moss                     | Millennium BMR           | 3.4                      | 14.3        | 84                    | 24                 | 5.2                                 |
| Pennington               | Summergrazer III         | 3.4                      | 10.9        | 86                    | 31                 | 4.9                                 |
| AgraTech                 | 8208F BMR                | 3.2                      | 11.5        | 82                    | 28                 | .                                   |
| FL                       | Fla. 05MGBN-7            | 2.9                      | 10.2        | 64                    | 28                 | .                                   |
| Average                  |                          | 4.8 <sup>1</sup>         | 20.0        | 93                    | 25                 | 5.7                                 |
| LSD at 10% Level         |                          | 1.4                      | 5.1         | 12.0                  | 2                  | N.S. <sup>2</sup>                   |
| Std. Err. of Entry Mean  |                          | 0.6                      | 2.1         | 5.0                   | 1                  | 0.4                                 |

1. CV = 23.3% and df for EMS = 27.

2. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: May 26, 2006.

Harvested: September 18, 2006

Seeding Rate: 150,000 seed/acre in 30" rows.

Soil Type: Cecil clay loam.

Soil Test: P = Medium, K = High, and pH = 6.0.

Fertilization: Preplant: 28 lb N, 56 lb P<sub>2</sub>O<sub>5</sub>, and 84 lb K<sub>2</sub>O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Soybean.

Management: Chisel plowed, disked, and rototilled; Aatrex and one cultivation used for weed control.

Test conducted by P. A. Rose.