

# SORGHUM FOR SILAGE

## Statewide Summary: Sorghum Silage Performance, Georgia, 2018

| Company or<br>Brand Name                     | Hybrid or<br>Variety Name | Tifton     |            |             | Athens     |            |            | Statewide  |            |            |
|--|---------------------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|
|  |                           | Primary    | Ratoon     | Total       | Primary    | Ratoon     | Total      | Primary    | Ratoon     | Total      |
| ----- dry matter yield - tons per acre ----- |                           |            |            |             |            |            |            |            |            |            |
| Alta Seeds                                   | ADV XF033                 | 5.8        | <b>4.3</b> | <b>10.0</b> | <b>7.4</b> | <b>1.0</b> | <b>8.4</b> | <b>6.6</b> | <b>2.6</b> | <b>9.2</b> |
| Alta Seeds                                   | ADV XF372                 | 4.2        | 2.7        | 7.0         | 6.1        | <b>1.0</b> | 7.0        | 5.1        | <b>1.9</b> | 7.0        |
| Alta Seeds                                   | AF7401                    | 4.5        | 3.4        | 7.9         | 6.0        | <b>0.8</b> | 6.8        | 5.2        | <b>2.1</b> | 7.3        |
| Alta Seeds                                   | AF8301                    | 5.1        | 2.2        | 7.2         | 6.7        | <b>0.7</b> | <b>7.4</b> | 5.7        | 1.5        | 7.3        |
| Desert Sun                                   | Sweet Caroline            | 4.6        | 2.8        | 7.4         | 6.5        | <b>0.7</b> | 7.2        | 5.5        | <b>1.8</b> | 7.3        |
| Dyna-Gro                                     | 705F                      | 5.0        | 3.1        | 8.1         | .          | .          | .          | .          | .          | .          |
| Dyna-Gro                                     | F73FS10                   | 5.2        | <b>4.4</b> | 9.6         | .          | .          | .          | .          | .          | .          |
| Dyna-Gro                                     | F74FS23 BMR               | 4.2        | 2.9        | 7.1         | .          | .          | .          | .          | .          | .          |
| Dyna-Gro                                     | F76FS77 BMR               | 3.3        | 0.4        | 3.7         | .          | .          | .          | .          | .          | .          |
| Dyna-Gro                                     | FX18811                   | <b>6.4</b> | <b>4.3</b> | <b>10.7</b> | <b>7.8</b> | 0.6        | <b>8.4</b> | <b>7.0</b> | <b>2.4</b> | <b>9.7</b> |
| Dyna-Gro                                     | FX18851 BMR               | 3.2        | 0.6        | 3.7         | 6.0        | 0.6        | 6.6        | 4.6        | 0.6        | 5.2        |
| Gayland Ward                                 | Super Sugar (DM)          | 5.0        | 3.2        | 8.2         | <b>7.2</b> | <b>1.0</b> | <b>8.2</b> | <b>6.1</b> | <b>2.1</b> | 8.2        |
| Gayland Ward                                 | Sweet Forever BMR         | 4.4        | 1.5        | 5.9         | 5.7        | <b>0.9</b> | 6.6        | 5.1        | 1.2        | 6.3        |
| Gayland Ward                                 | Sweet Six                 | 4.5        | 2.1        | 6.6         | 5.8        | <b>0.8</b> | 6.5        | 5.1        | 1.4        | 6.6        |
| Moss Seed                                    | 4Ever Green               | 3.8        | 0.1        | 3.9         | <b>7.3</b> | 0.6        | <b>7.9</b> | 5.5        | 0.3        | 5.9        |
| Scott Seed                                   | X50610                    | 3.2        | 0.6        | 3.8         | 5.6        | 0.6        | 6.2        | 4.4        | 0.6        | 5.0        |
| Scott Seed                                   | X5063                     | 3.4        | 0.8        | 4.1         | 4.9        | <b>0.9</b> | 5.7        | 4.1        | 0.8        | 4.9        |
| Scott Seed                                   | X50644                    | 2.2        | 0.0        | 2.2         | 4.5        | 0.5        | 5.0        | 3.3        | 0.2        | 3.6        |
| Scott Seed                                   | X51423                    | 3.9        | 2.4        | 6.3         | 6.5        | <b>1.0</b> | <b>7.5</b> | 5.2        | 1.7        | 6.9        |
| Sorghum Partners                             | NK300                     | 5.1        | 3.5        | 8.6         | .          | .          | .          | .          | .          | .          |
| Sorghum Partners                             | SP4555 (SGxS)             | 3.6        | 1.4        | 5.0         | .          | .          | .          | .          | .          | .          |
| Sorghum Partners                             | SS304 (FS)                | <b>6.2</b> | 3.4        | 9.7         | .          | .          | .          | .          | .          | .          |
| Average                                      |                           | 4.4        | 2.3        | 6.7         | 6.3        | 0.8        | 7.0        | 5.2        | 1.4        | 6.6        |
| LSD at 10% Level                             |                           | 0.6        | 0.7        | 1.0         | 1.0        | 0.3        | 1.1        | 1.1        | 0.9        | 1.1        |
| Std. Err. of Entry Mean                      |                           | 0.2        | 0.3        | 0.4         | 0.4        | 0.1        | 0.5        | 0.5        | 0.4        | 0.5        |

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

**Tifton, Georgia:**  
**Sorghum Silage Performance, 2018, Nonirrigated**

| Company or<br>Brand Name | Hybrid or<br>Variety Name | 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       |                       |                    |                                     |
| <b>Primary Crop</b>      |                           |                              |             |                       |                    |                                     |
| Dyna-Gro                 | FX18811                   | <b>6.4</b>                   | <b>18.4</b> | 123                   | 21                 | .                                   |
| Sorghum Partners         | SS304 (FS)                | <b>6.2</b>                   | <b>17.8</b> | 113                   | 23                 | .                                   |
| Alta Seeds               | ADV XF033                 | 5.8                          | 16.5        | 92                    | 23                 | .                                   |
| Dyna-Gro                 | F73FS10                   | 5.2                          | 14.9        | 101                   | 26                 | <b>5.8</b>                          |
| Sorghum Partners         | NK300                     | 5.1                          | 14.5        | 87                    | 22                 | 4.6                                 |
| Alta Seeds               | AF8301                    | 5.1                          | 14.4        | 88                    | 23                 | .                                   |
| Dyna-Gro                 | 705F                      | 5.0                          | 14.4        | 88                    | 23                 | 5.0                                 |
| Gayland Ward             | Super Sugar (DM)          | 5.0                          | 14.2        | 115                   | 22                 | .                                   |
| Desert Sun               | Sweet Caroline            | 4.6                          | 13.0        | 90                    | 20                 | .                                   |
| Alta Seeds               | AF7401                    | 4.5                          | 12.8        | 75                    | 20                 | 4.6                                 |
| Gayland Ward             | Sweet Six                 | 4.5                          | 12.8        | 111                   | 33                 | .                                   |
| Gayland Ward             | Sweet Forever BMR         | 4.4                          | 12.6        | 114                   | 28                 | .                                   |
| Alta Seeds               | ADV XF372                 | 4.2                          | 12.0        | 69                    | 20                 | .                                   |
| Dyna-Gro                 | F74FS23 BMR               | 4.2                          | 12.1        | 111                   | 16                 | 4.5                                 |
| Scott Seed               | X51423                    | 3.9                          | 11.1        | 101                   | 17                 | .                                   |
| Moss Seed                | 4Ever Green               | 3.8                          | 10.7        | 80                    | 19                 | 3.7                                 |
| Sorghum Partners         | SP4555 (SGxS)             | 3.6                          | 10.2        | 111                   | 24                 | 3.8                                 |
| Scott Seed               | X5063                     | 3.4                          | 9.7         | 90                    | 23                 | .                                   |
| Dyna-Gro                 | F76FS77 BMR               | 3.3                          | 9.6         | 66                    | 20                 | 3.3                                 |
| Scott Seed               | X50610                    | 3.2                          | 9.0         | 58                    | 20                 | .                                   |
| Dyna-Gro                 | FX18851 BMR               | 3.2                          | 9.0         | 70                    | 21                 | .                                   |
| Scott Seed               | X50644                    | 2.2                          | 6.2         | 56                    | 18                 | .                                   |
| Average                  |                           | 4.4 <sup>1</sup>             | 12.5        | 91                    | 22                 | 4.4                                 |
| LSD at 10% Level         |                           | 0.6                          | 1.6         | 8                     | 1                  | 0.5                                 |
| Std. Err. of Entry Mean  |                           | 0.2                          | 0.7         | 3                     | 1                  | 0.2                                 |
|                          |                           |                              |             |                       |                    | Percent<br>Regrowth                 |
| <b>Ratoon Crop</b>       |                           |                              |             |                       |                    |                                     |
| Dyna-Gro                 | F73FS10                   | <b>4.4</b>                   | <b>12.6</b> | 92                    | 19                 | 100                                 |
| Dyna-Gro                 | FX18811                   | <b>4.3</b>                   | <b>12.2</b> | 80                    | 15                 | 100                                 |
| Alta Seeds               | ADV XF033                 | <b>4.3</b>                   | <b>12.1</b> | 71                    | 18                 | 100                                 |
| Sorghum Partners         | NK300                     | 3.5                          | 9.9         | 59                    | 18                 | 100                                 |
| Sorghum Partners         | SS304 (FS)                | 3.4                          | 9.8         | 82                    | 14                 | 100                                 |
| Alta Seeds               | AF7401                    | 3.4                          | 9.6         | 50                    | 17                 | 100                                 |
| Gayland Ward             | Super Sugar (DM)          | 3.2                          | 9.2         | 84                    | 16                 | 100                                 |
| Dyna-Gro                 | 705F                      | 3.1                          | 8.7         | 62                    | 18                 | 93                                  |
| Dyna-Gro                 | F74FS23 BMR               | 2.9                          | 8.2         | 70                    | 13                 | 95                                  |
| Desert Sun               | Sweet Caroline            | 2.8                          | 8.1         | 56                    | 18                 | 93                                  |
| Alta Seeds               | ADV XF372                 | 2.7                          | 7.8         | 47                    | 18                 | 91                                  |
| Scott Seed               | X51423                    | 2.4                          | 7.0         | 66                    | 14                 | 95                                  |
| Alta Seeds               | AF8301                    | 2.2                          | 6.3         | 58                    | 18                 | 63                                  |
| Gayland Ward             | Sweet Six                 | 2.1                          | 6.0         | 85                    | 18                 | 70                                  |
| Gayland Ward             | Sweet Forever BMR         | 1.5                          | 4.3         | 74                    | 18                 | 45                                  |

**Tifton, Georgia:**  
**Sorghum Silage Performance, 2018, Nonirrigated**  
**(Continued)**

| Company or<br>Brand Name       | Hybrid or<br>Variety Name | Forage Yields         |       | Plant<br>Height | Dry<br>Matter | Percent<br>Regrowth |
|--------------------------------|---------------------------|-----------------------|-------|-----------------|---------------|---------------------|
|                                |                           | Dry                   | Green |                 |               |                     |
|                                |                           | ----- tons/acre ----- |       | in              | %             | %                   |
| <b>Ratoon Crop - continued</b> |                           |                       |       |                 |               |                     |
| Sorghum Partners               | SP4555 (SGxS)             | 1.4                   | 4.0   | 65              | 16            | 40                  |
| Scott Seed                     | X5063                     | 0.8                   | 2.1   | 66              | 17            | 18                  |
| Scott Seed                     | X50610                    | 0.6                   | 1.8   | 43              | 17            | 19                  |
| Dyna-Gro                       | FX18851 BMR               | 0.6                   | 1.6   | 46              | 17            | 21                  |
| Dyna-Gro                       | F76FS77 BMR               | 0.4                   | 1.1   | 48              | 16            | 8                   |
| Moss Seed                      | 4Ever Green               | 0.1                   | 0.3   | 42              | 16            | 1                   |
| Scott Seed                     | X50644                    | 0.0                   | 0.0   | .               | .             | 0                   |
| Average                        |                           | 2.3 <sup>2</sup>      | 6.5   | 64.0            | 16            | 66                  |
| LSD at 10% Level               |                           | 0.7                   | 2.0   | 9               | 1             | -                   |
| Std. Err. of Entry Means       |                           | 0.3                   | 0.9   | 3               | 1             | 7.2                 |

1. CV = 11.2% and df for EMS = 63.

2. CV = 26.4% and df for EMS = 63.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 24, 2018.

Harvested: July 13, 2018, with 2,104 Growing Degree Units since planting. Test harvested early due to SCA infestation.

August 28, 2018, with 1,332 GDUs since prior cutting.

Seeding Rate: 100,000 seed/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.9.

Fertilization: Preplant: 50 lb N, 50 lb P<sub>2</sub>O<sub>5</sub>, and 100 lb K<sub>2</sub>O/acre. Sidedress: 60 lb N/acre.

Previous Crop: Corn.

Management: Conventional tillage; Atrazine and Dual Magnum used for weed control; Telone II used for nematode control.

Test conducted by R. Brooke, K. Cawley, M. Cofield and D. Dunn.

## Athens, Georgia: Sorghum Silage Performance, 2018, Nonirrigated

| Company or<br>Brand Name | Hybrid or<br>Variety Name | Forage Yields                |             | Plant<br>Height<br>in | Dry<br>Matter<br>% | 2-Yr. Avg<br>Dry Yield <sup>1</sup><br>tons/acre |
|--------------------------|---------------------------|------------------------------|-------------|-----------------------|--------------------|--|
|                          |                           | Dry<br>----- tons/acre ----- | Green       |                       |                    |  |
| <b>Primary Crop</b>      |                           |                              |             |                       |                    |  |
| Dyna-Gro                 | FX18811                   | <b>7.8</b>                   | <b>22.3</b> | 140                   | 22                 | .  |
| Alta Seeds               | ADV XF033                 | <b>7.4</b>                   | <b>21.3</b> | 86                    | 25                 | .  |
| Moss Seed                | 4Ever Green               | <b>7.3</b>                   | <b>20.7</b> | 120                   | 19                 | <b>6.0</b>                                       |
| Gayland Ward             | Super Sugar (DM)          | <b>7.2</b>                   | <b>20.7</b> | 116                   | 26                 | .  |
| Alta Seeds               | AF8301                    | 6.7                          | 19.0        | 82                    | 26                 | .  |
| Scott Seed               | X51423                    | 6.5                          | 18.6        | 114                   | 23                 | .  |
| Desert Sun               | Sweet Caroline            | 6.5                          | 18.6        | 93                    | 24                 | .  |
| Alta Seeds               | ADV XF372                 | 6.1                          | 17.3        | 77                    | 22                 | .  |
| Alta Seeds               | AF7401                    | 6.0                          | 17.1        | 80                    | 22                 | <b>5.4</b>                                       |
| Dyna-Gro                 | FX18851 BMR               | 6.0                          | 17.1        | 87                    | 22                 | .  |
| Gayland Ward             | Sweet Six                 | 5.8                          | 16.6        | 122                   | 30                 | .  |
| Gayland Ward             | Sweet Forever BMR         | 5.7                          | 16.4        | 110                   | 29                 | .  |
| Scott Seed               | X50610                    | 5.6                          | 16.0        | 79                    | 22                 | .  |
| Scott Seed               | X5063                     | 4.9                          | 13.9        | 90                    | 24                 | .  |
| Scott Seed               | X50644                    | 4.5                          | 12.9        | 96                    | 17                 | .  |
| Average                  |                           | 6.3 <sup>1</sup>             | 17.9        | 99                    | 23                 | 5.7  |
| LSD at 10% Level         |                           | 1.0                          | 2.9         | 10                    | 2                  | NS   |
| Std. Err. Of Entry Mean  |                           | 0.4                          | 1.2         | 4                     | 1                  | 0.5  |
|                          |                           |                              |             |                       |                    | Percent<br>Regrowth                              |
| <b>Ratoon Crop</b>       |                           |                              |             |                       |                    |  |
| Alta Seeds               | ADV XF372                 | <b>1.0</b>                   | <b>2.8</b>  | .                     | 21                 | 86   |
| Scott Seed               | X51423                    | <b>1.0</b>                   | <b>2.8</b>  | .                     | 22                 | 79   |
| Alta Seeds               | ADV XF033                 | <b>1.0</b>                   | <b>2.7</b>  | .                     | 22                 | 85   |
| Gayland Ward             | Super Sugar (DM)          | <b>1.0</b>                   | <b>2.7</b>  | .                     | 22                 | 85   |
| Gayland Ward             | Sweet Forever BMR         | <b>0.9</b>                   | <b>2.6</b>  | .                     | 23                 | 90   |
| Scott Seed               | X5063                     | <b>0.9</b>                   | <b>2.6</b>  | .                     | 22                 | 80   |
| Alta Seeds               | AF7401                    | <b>0.8</b>                   | <b>2.3</b>  | .                     | 24                 | 83   |
| Gayland Ward             | Sweet Six                 | <b>0.8</b>                   | <b>2.1</b>  | .                     | 22                 | 78   |
| Alta Seeds               | AF8301                    | <b>0.7</b>                   | <b>2.1</b>  | .                     | 24                 | 79   |
| Desert Sun               | Sweet Caroline            | <b>0.7</b>                   | <b>2.0</b>  | .                     | 22                 | 79   |
| Dyna-Gro                 | FX18851 BMR               | 0.6                          | 1.8         | .                     | 21                 | 80   |
| Dyna-Gro                 | FX18811                   | 0.6                          | 1.7         | .                     | 23                 | 76   |
| Moss Seed                | 4Ever Green               | 0.6                          | 1.7         | .                     | 20                 | 63   |
| Scott Seed               | X50610                    | 0.6                          | 1.7         | .                     | 23                 | 80   |
| Scott Seed               | X50644                    | 0.5                          | 1.4         | .                     | 21                 | 61   |
| Average                  |                           | 0.8 <sup>2</sup>             | 2.2         | -                     | 22                 | 79   |
| LSD at 10% Level         |                           | 0.3                          | 0.8         | -                     | NS                 | 11   |
| Std. Err. Of Entry Mean  |                           | 0.1                          | 0.3         | -                     | 1                  | 5  |

**Athens, Georgia:**  
**Sorghum Silage Performance, 2018, Nonirrigated**  
**(Continued)**

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1. CV = 13.5% and df for EMS = 40.

2. CV = 31.6% and df for EMS = 42.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

"NS" indicates differences are statistically non-significant ( $p = 0.10$  probability level).

Planted: May 10, 2018.

Harvested: August 20, 2018, with 2,697 Growing Degree Units since planting.  
October 3, 2018, with 1,149 GDUs since prior cutting.

Seeding Rate: 100,000 seed/acre in 30" rows.

Soil Type: Wickham sandy loam.

Soil Test: P = Low, K = Low, and pH = 6.2.

Fertilization: Preplant: 22 lb N, 104 lb P<sub>2</sub>O<sub>5</sub>, and 120 lb K<sub>2</sub>O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Clover.

Management: Strip-tilled; Dual Magnum used for weed control; Lorsban and Sivanto used for insect control.

Test conducted by H. Jordan, G. Ware, B. Weldy, J. Cartey, C. Fox, J. Griffin, and K. Roach.

# SUMMER ANNUAL FORAGES

## Statewide Summary: Summer Annual Forages, Georgia, 2018

| Company or<br>Brand Name                       | Hybrid or<br>Variety Name | Tifton       | Athens       | Statewide    |
|--|---------------------------|--------------|--------------|--------------|
|  |                           | Total        | Total        | Total        |
| dry matter yield - lbs per acre                |                           |              |              |              |
| <b><u>Sorghum and Sorghum x Sudangrass</u></b> |                           |              |              |              |
| Alta Seeds                                     | ADV S6504 (SGxS)          | 13853        | <b>11645</b> | 12749        |
| Coffey Forage                                  | Surpass BMR dw (SGxS)     | 12666        | 8640         | 10653        |
| Coffey Forage                                  | Xtragraze ATxL BMR        | <b>14807</b> | <b>10829</b> | 12818        |
| Coffey Forage                                  | Xtragraze BMR             | <b>15137</b> | 8005         | 11571        |
| Desert Sun                                     | Latte (SGxS)              | <b>16536</b> | <b>12989</b> | <b>14763</b> |
| Dyna-Gro                                       | DannyBoy BMR              | 13346        | .            | .            |
| Dyna-Gro                                       | Fullgraze BMR             | 12445        | .            | .            |
| Dyna-Gro                                       | FX18835SS                 | <b>15988</b> | <b>12767</b> | <b>14378</b> |
| Dyna-Gro                                       | FX18843SS BMR             | 12956        | 10060        | 11508        |
| Gayland Ward                                   | 10218                     | 12292        | 7785         | 10039        |
| Moss Seed                                      | Mega Green BMR SGxS       | 10828        | 8152         | 9490         |
| Moss Seed                                      | Mega Green SGxS           | <b>16107</b> | 7116         | 11611        |
| Scott Seed                                     | X5062 (SGxS)              | 13571        | <b>11318</b> | 12445        |
| Scott Seed                                     | X50643 (SGxS)             | <b>14575</b> | <b>10987</b> | 12781        |
| Scott Seed                                     | X50651 (SGxS) (df)        | 11556        | 8378         | 9967         |
| Scott Seed                                     | X50652 (SGxS) (df)        | 11773        | 10199        | 10986        |
| Scott Seed                                     | X53543 (SGxS)             | <b>15028</b> | <b>12540</b> | <b>13784</b> |
| Sorghum Partners                               | Sordan79 (SGxS)           | 14025        | .            | .            |
| Sorghum Partners                               | SP4555 (SGxS)             | <b>15927</b> | .            | .            |
| Average  |                           | 13864        | 10094        | 11969        |
| LSD at 10% Level                               |                           | 2011         | 2720         | 1845         |
| Std. Err. of Entry Means                       |                           | 850          | 1144         | 786          |
| <b><u>Pearl Millet</u></b>                     |                           |              |              |              |
| Coffey Forage                                  | Epic BMR                  | 18786        | <b>6190</b>  | <b>12488</b> |
| Coffey Forage                                  | ExCeed II BMR             | 17111        | 5326         | <b>11218</b> |
| Dyna-Gro                                       | PearlMil                  | <b>21171</b> | 5530         | <b>13351</b> |
| Sorghum Partners                               | Millex 32                 | <b>20998</b> | <b>6550</b>  | <b>13774</b> |
| Average  |                           | 19516        | 5898         | 12708        |
| LSD at 10% Level                               |                           | 791          | 658          | NS           |
| Std. Err. of Entry Mean                        |                           | 305          | 254          | 2746         |

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

"NS" indicates differences are statistically non-significant ( $p = 0.10$  probability level).

## Tifton, Georgia: Summer Annual Forage Performance, 2018, Nonirrigated

| Company or<br>Brand Name                       | Hybrid Name<br>or Number | Clipping Dates |              | Season<br>Total    | 2-Year<br>Average |
|--|--------------------------|----------------|--------------|--------------------|-------------------|
|  |                          | 6-21-2018      | 8-9-2018     |                    |                   |
| ----- dry matter yield - pounds per acre ----- |                          |                |              |                    |                   |
| <b><u>Sorghum x Sudangrass</u></b>             |                          |                |              |                    |                   |
| Desert Sun                                     | Latte (SGxS)             | <b>8007</b>    | <b>8529</b>  | <b>16536</b>       | .                 |
| Moss Seed                                      | Mega Green SGxS          | 5967           | <b>10140</b> | <b>16107</b>       | <b>18722</b>      |
| Dyna-Gro                                       | FX18835SS                | <b>8302</b>    | 7687         | <b>15988</b>       | .                 |
| Sorghum Partners                               | SP4555 (SGxS)            | <b>8049</b>    | 7879         | <b>15927</b>       | <b>16369</b>      |
| Coffey Forage                                  | Xtragraze BMR            | <b>8958</b>    | 6179         | <b>15137</b>       | <b>16796</b>      |
| Scott Seed                                     | X53543 (SGxS)            | 7690           | 7339         | <b>15028</b>       | .                 |
| Coffey Forage                                  | Xtragraze ATxL BMR       | <b>8379</b>    | 6429         | <b>14807</b>       | .                 |
| Scott Seed                                     | X50643 (SGxS)            | 6898           | 7677         | <b>14575</b>       | .                 |
| Sorghum Partners                               | Sordan79 (SGxS)          | <b>8447</b>    | 5579         | 14025              | 15592             |
| Alta Seeds                                     | ADV S6504 (SGxS)         | 6872           | 6981         | 13853              | .                 |
| Scott Seed                                     | X5062 (SGxS)             | <b>8058</b>    | 5514         | 13571              | .                 |
| Dyna-Gro                                       | DannyBoy BMR             | <b>8380</b>    | 4967         | 13346              | 14076             |
| Dyna-Gro                                       | FX18843SS BMR            | 7380           | 5576         | 12956              | .                 |
| Coffey Forage                                  | Surpass BMR dw (SGxS)    | 7269           | 5397         | 12666              | 11967             |
| Dyna-Gro                                       | Fullgraze BMR            | 6210           | 6236         | 12445              | 14666             |
| Gayland Ward                                   | 10218                    | 6627           | 5665         | 12292              | .                 |
| Scott Seed                                     | X50652 (SGxS) (df)       | 5823           | 5950         | 11773              | .                 |
| Scott Seed                                     | X50651 (SGxS) (df)       | 5861           | 5696         | 11556              | .                 |
| Moss Seed                                      | Mega Green BMR SGxS      | 5991           | 4837         | 10828              | 10657             |
| Average  |                          | 7324           | 6540         | 13864 <sup>1</sup> | 14856             |
| LSD at 10% Level                               |                          | 1021           | 1942         | 2011               | 2634              |
| Std. Err. of Entry Means                       |                          | 431            | 820          | 850                | 1112              |
| <b><u>Pearl Millet</u></b>                     |                          |                |              |                    |                   |
| Dyna-Gro                                       | PearlMil                 | <b>11129</b>   | <b>10043</b> | <b>21171</b>       | .                 |
| Sorghum Partners                               | Millex 32                | <b>10615</b>   | <b>10383</b> | <b>20998</b>       | <b>16969</b>      |
| Coffey Forage                                  | Epic BMR                 | 9120           | 9666         | 18786              | 14942             |
| Coffey Forage                                  | ExCeed II BMR            | 8566           | 8546         | 17111              | .                 |
| Average  |                          | 9857           | 9659         | 19516 <sup>2</sup> | 15956             |
| LSD at 10% Level                               |                          | 738            | 490          | 791                | 835               |
| Std. Err. of Entry Mean                        |                          | 285            | 189          | 305                | 311               |

1. CV = 112.3% and df for EMS = 54.

2. CV = 3.1% and df for EMS = 9.

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

Planted: April 24, 2018.

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

Millet: 500,000 seed/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.9.

Fertilization: Preplant: 50 lb N, 50 lb P<sub>2</sub>O<sub>5</sub>, and 100 lb K<sub>2</sub>O/acre.

Sidedress: 60 lb N/acre, plus 50 lb N/acre after 1st harvest.

Previous Crop: Corn.

Management: Conventional tillage; Dual Magnum and Atrazine used for weed control;  
Telone II used for nematode control.

Test conducted by R. Brooke, K. Cawley, M. Cofield, and D. Dunn.

## Athens, Georgia: Summer Annual Forage Performance, 2018, Nonirrigated

| Company or<br>Brand Name                       | Hybrid or<br>Variety Name | Harvest Date |             |             | Season<br>Total    | 2-Year<br>Average |
|--|---------------------------|--------------|-------------|-------------|--------------------|-------------------|
|  |                           | 6/26/2018    | 7/23/2018   | 10/3/2018   |                    |                   |
| ----- dry matter yield - pounds per acre ----- |                           |              |             |             |                    |                   |
| <b><u>Sorghum and Sorghum x Sudangrass</u></b> |                           |              |             |             |                    |                   |
| Desert Sun                                     | Latte (SGxS)              | <b>3332</b>  | <b>3400</b> | <b>6258</b> | <b>12989</b>       | .                 |
| Dyna-Gro                                       | FX18835SS                 | <b>3049</b>  | <b>3305</b> | <b>6413</b> | <b>12767</b>       | .                 |
| Scott Seed                                     | X53543 (SGxS)             | <b>3188</b>  | 3049        | <b>6303</b> | <b>12540</b>       | .                 |
| Alta Seeds                                     | ADV S6504 (SGxS)          | <b>3165</b>  | <b>3171</b> | <b>5310</b> | <b>11645</b>       | .                 |
| Scott Seed                                     | X5062 (SGxS)              | <b>3196</b>  | <b>3480</b> | <b>4641</b> | <b>11318</b>       | .                 |
| Scott Seed                                     | X50643 (SGxS)             | 2856         | <b>3182</b> | <b>4950</b> | <b>10987</b>       | .                 |
| Coffey Forage                                  | Xtragraze ATxL BMR        | <b>3003</b>  | 2989        | <b>4837</b> | <b>10829</b>       | .                 |
| Scott Seed                                     | X50652 (SGxS) (df)        | 1877         | <b>3285</b> | <b>5038</b> | 10199              | .                 |
| Dyna-Gro                                       | FX18843SS BMR             | <b>3305</b>  | <b>3201</b> | 3553        | 10060              | .                 |
| Coffey Forage                                  | Surpass BMR dw (SGxS)     | 2910         | 2322        | 3408        | 8640               | <b>7718</b>       |
| Scott Seed                                     | X50651 (SGxS) (df)        | 2193         | 2770        | 3416        | 8378               | .                 |
| Moss Seed                                      | Mega Green BMR SGxS       | 2377         | <b>3252</b> | 2523        | 8152               | <b>7162</b>       |
| Coffey Forage                                  | Xtragraze BMR             | <b>3213</b>  | 2627        | 2166        | 8005               | <b>8168</b>       |
| Gayland Ward                                   | 10218                     | 2410         | 2557        | 2818        | 7785               | .                 |
| Moss Seed                                      | Mega Green SGxS           | 1587         | <b>3101</b> | 2428        | 7116               | <b>7419</b>       |
| Average  |                           | 2777         | 3046        | 4271        | 10094 <sup>1</sup> | 7617              |
| LSD at 10% Level                               |                           | 374          | 405         | 2466        | 596                | NS                |
| Std. Err. of Entry Mean                        |                           | 157          | 170         | 1037        | 1144               | 936               |
| <b><u>Pearl Millet</u></b>                     |                           |              |             |             |                    |                   |
| Sorghum Partners                               | Millex 32                 | <b>4064</b>  | 2486        | -           | <b>6550</b>        | .                 |
| Coffey Forage                                  | Epic BMR                  | 3139         | <b>3051</b> | -           | <b>6190</b>        | 7900              |
| Dyna-Gro                                       | PearlMil                  | 2876         | 2654        | -           | 5530               | .                 |
| Coffey Forage                                  | ExCeed II BMR             | 2673         | 2653        | -           | 5326               | .                 |
| Average  |                           | 3188         | 2711        | -           | 5898 <sup>2</sup>  | -                 |
| LSD at 10% Level                               |                           | 516          | 256         | -           | 658                | -                 |
| Std. Err. of Entry Mean                        |                           | 199          | 99          | -           | 254                | -                 |

1. CV = 22.7% and df for EMS = 42.

2. CV = 8.6% and df for EMS = 9.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

"NS" indicates differences are statistically non-significant ( $p = 0.10$  probability level).

Planted: May 11, 2018

Harvested: June 26, 2018, with 1,179 Growing Degree Units since planting.

July 23, 2018, with 741 GDUs since prior cutting.

October 3, 2018, with 1,149 GDUs since prior cutting.

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

Pearl Millet: 500,000 seed/acre in 30" rows.

Soil Type: Wickham sandy loam.

Soil Test: P = Low, K = Low, and pH = 6.2.

Fertilization: Preplant: 22 lb N, 104 lb P<sub>2</sub>O<sub>5</sub>, and 120 lb K<sub>2</sub>O/acre.

Sidedress: 50 lb N/acre, plus 50 lb N/acre after 1st and 2nd harvests.

Previous Crop: Clover.

Management: Strip tilled for planting.

Sorghum x Sudangrass: Dual Magnum used for weed control, Sivanto and Lorsban for insect control.

Pearl Millet: Lorsban used for insect control

Note: Pearl millet did not produce any regrowth following the 2nd cutting.

Test conducted by H. Jordan and G. Ware.