

Recommended Wheat Varieties for Fall Planting, 2008

One of the most important decisions that you can make in growing wheat is choosing the right variety or varieties to plant. Many differences exist among the varieties and therefore it is important to assess what characteristics are most important for your production area. Choose several varieties to plant to reduce risk and improve your chance of success every season. The following information is provided to understand the differences in each of the varieties that are recommended in Georgia. Tables 1-4 are included, to provide comparative information on wheat.

AgSouth Genetics (AGS)

AGS 2000 is considered one of two standard wheat varieties grown in Georgia. The other is Pioneer 26R61. AGS 2000 requires the use of a fungicide to maximize yields but is resistant to Hessian fly. It is widely adapted to many different environments and remains very competitive.

AGS 2031 is a new variety that has excellent yield and good test weight. It has the highest three year average across the Tifton, Plains and Midville locations. It has excellent leaf rust resistance ratings however **it is susceptible to Hessian fly** and must be treated with an at-plant insecticide. In addition it is rated moderately susceptible to powdery mildew. This variety has the excellent straw strength.

AGS 2060 is one of a handful of early maturing varieties with excellent yield potential. It has very good leaf and stripe rust resistance, fair powdery mildew resistance and very good Hessian fly resistance and test weight. It has a short vernalization requirement and matures earlier than AGS 2000 or 2031. It will lodge with high N rates.

AGS 2010 is an early maturing variety that has a longer vernalization requirement than AGS 2000 and therefore should only be planted within the recommended planting period. Its yield is equal to Fleming, another early maturing variety. AGS 2010 has very good disease and Hessian fly resistance. It will lodge with high N rates.

AGS 2020 is a new AGS variety recommended for Georgia. It is approximately four days earlier than AGS 2000 and has excellent disease resistance, yield, test weight and straw strength. It also has very good soil borne mosaic virus resistance. AGS 2020 has only **fair tolerance to Hessian fly** and therefore should be treated with an at-plant insecticide.

AGS 2026 is a new AGS variety recommended for Georgia. While this variety has slightly less straw strength than AGS 2020, it is an excellent variety with very good disease resistance and Hessian fly resistance. In addition, it is one of a very few varieties with Biotype L Hessian fly resistance. It has good soil borne mosaic virus resistance. This variety requires more vernalization than AGS 2000.

UniSouth Genetics (USG)

USG 3209 has been sold in Georgia for several years. It demonstrates some susceptibility to certain biotypes of Hessian fly and therefore should be treated with an at-plant insecticide. It is an early maturing variety and well suited for the upper coastal plains. This variety responds well to a fungicide. It has very good yield.

USG 3295 is equal in yield to AGS 2000. It is similar in maturity but has better disease resistance and unfortunately **is susceptible to current biotypes of Hessian fly** and therefore must be treated with an insecticide.

USG 3592 in Georgia is earlier than USG 3295 and yields slightly less than 3295 but similar to Fleming. It is susceptible to stripe rust but resistant to leaf rust and powdery mildew. It has some resistance to certain biotypes of Hessian fly. It will lodge with high N rates. **It is recommended for north Georgia only.**

Pioneer

Pioneer 26R61 is considered one of two standard wheat varieties grown in Georgia. The other is AGS 2000. Pioneer 26R61 still has good resistance to stripe rust and soil borne mosaic virus but is susceptible to most other wheat diseases (mildew, leaf rust, glume blotch) and therefore responds well to a fungicide treatment. It has good yield and test weight. Its four year average yield is equaled to AGS 2000. Currently, it is the only Pioneer line recommended for Georgia

Syngenta Seeds

Coker 9553 is a medium maturing variety with yield equal to Pioneer 26R61 and AGS 2000. It is slightly susceptible to leaf rust and glume blotch and therefore responds well to a fungicide. **It is susceptible to Hessian fly.**

AgriPro Panola has slightly less yield than Coker 9553 but has better disease resistance. It matures a few days later than Coker 9553 and is **similarly susceptible to Hessian fly except for Race O**. Panola will be dropped from the recommended list in 2009.

Crop Protection Services (Vigoro Seeds)

McIntosh is similar in yield to Fleming and USG 3592. It has good rust, powdery mildew and soil borne mosaic virus resistance. It has a long vernalization requirement similar to Coker 9553 and SS 520 and should be planted in the early portion of recommended planting periods only. **It is recommended for north Georgia only.**

Oglethorpe has above average yield in both north and south Georgia. It has good resistance to leaf and stripe rust but only fair tolerance to powdery mildew. This variety

has Biotype L Hessian fly resistance. Care should be taken with nitrogen applications as it only has fair straw strength.

Dominion is recommended for **north Georgia only**. It has very good powdery mildew resistance and yield but **is susceptible to Hessian fly** and should be treated with an insecticide.

Southern States

Southern States (SS) 8641 is a good yielding wheat with excellent disease and Hessian fly resistance. It has good straw strength and test weight. It matures later than AGS 2000 and Pioneer 26R61 and should not be planted past the recommended planting window in Georgia.

Public varieties:

Fleming is the earliest maturing wheat in Georgia. It has very little vernalization requirement and, therefore, should be planted in the later ¼ portion of the recommended planting period. In late plantings in Georgia (after recommended planting periods), Fleming provides some of the highest yields of all the varieties tested. **Caution:** Fleming has a physiological spotting that is easily mistaken for leaf disease. All lesions should be carefully examined to make sure a proper diagnosis is made when considering a fungicide.

Roberts is one of the oldest public varieties still recommended however it is recommended for **forage production only**. It has good resistance to glume blotch but is susceptible to all other foliar diseases and requires a fungicide for adequate seed production. It is a late maturing variety that has a long vernalization requirement.

Table 1. Characteristics of Recommended Varieties of Wheat

| Variety | Planting Area ¹ | Resistance | | | | | | | Test Weight | Maturity | Straw Strength | Vernal Req |
|---------------|----------------------------|------------|-------------|--------------|----------------|------|-------------------|-------------|-------------|-----------|----------------|-------------|
| | | Leaf Rust | Stripe Rust | Glume Blotch | Powdery Mildew | BYD | SBWM ² | Hessian Fly | | | | |
| AGS 2000 | S | fair | poor | fair | fair | fair | poor | good | good | medium | fair | short |
| AGS 2031 | S | good | good | good | fair | fair | good | poor | good | medium | good | medium |
| AGS 2010 | C | good | good | good | good | fair | good | good | good | medium | fair | med.long |
| AGS 2060 | S | good | good | fair | fair | fair | good | good | good | early | fair | short |
| AGS 2020 | S | good | good | good | good | fair | good | fair | good | early med | good | short |
| AGS 2026 | S | good | good | good | good | fair | good | good | good | medium | fair | medium |
| Fleming | C | good | good | fair | good | poor | poor | fair | good | early | fair | Very short |
| McIntosh | P,M | good | good | fair | good | fair | good | poor | good | med.late | fair | med.long |
| Panola | C | fair | good | fair | fair | fair | good | poor | good | med.late | good | med.long |
| Pioneer 26R61 | S | fair | good | fair | fair | fair | good | good | good | medium | good | medium |
| Roberts** | P.M. | poor | very poor | good | good | fair | good | poor | good | late | fair | long |
| SS 8641 | S | good | good | fair | good | fair | good | good | good | medium | fair | med long |
| USG 3209 | S | fair | good | fair | good | fair | good | poor | fair | medium | good | medium |
| USG 3592 | P,M | good | poor | good | good | fair | good | fair | good | medium | fair | medium long |
| USG 3295 | S | good | good | fair | good | fair | good | poor | good | medium | good | medium |
| Ogelthorpe | S | good | good | good | fair | fair | good | good | good | medium | fair | medium |
| Coker 9553 | S | good | good | fair | good | fair | fair | poor | good | early | good | medium long |
| Dominion | P,M | good | good | good | good | fair | good | poor | good | late | good | long |
| | | | | | | | | | | | | |

**Recommended for use as forage only

Table 2. Yield and test weights of certain varieties tested at Tifton, Plains and Midville, Georgia, 2006

| Brand/Variety | Tifton | | | | Plains | | | | Midville | | | |
|------------------|-----------------|-------------|------------|-------------|-----------------|-------------|------------|-------------|-----------------|-------------|------------|-------------|
| | 3-Yr Avg | 2-Yr Avg | 2008 | | 3-Yr Avg | 2-Yr Avg | 2008 | | 3-Yr Avg | 2-Yr Avg | 2008 | |
| | -----bu/Ac----- | | | ---lb/bu--- | -----bu/Ac----- | | | ---lb/bu--- | -----bu/Ac----- | | | ---lb/bu--- |
| Pioneer 26R31 | 92.6 | 91.6 | 92.6 | 57.8 | 86.3 | 105.1 | 96.2 | 59.5 | 55.8 | 50.7 | 40.9 | 55.7 |
| AGS 2026 | 91.9 | 89.5 | 93.9 | 59.4 | 94.4 | 98.8 | 97.2 | 60.3 | 57.0 | 53.6 | 37.8 | 56.5 |
| AGS 2020 | 87.3 | 87.2 | 85.3 | 60.5 | 102.9 | 112.2 | 104.5 | 60.9 | 64.8 | 60.8 | 50.6 | 57.8 |
| AGS 2060 | 84.4 | 83.4 | 90.8 | 60.3 | 95.1 | 98.2 | 100.4 | 63.7 | 54.4 | 51.6 | 50.9 | 58.1 |
| AGS 2031 | 82.9 | 80.2 | 82.9 | 59.1 | 94.8 | 97.5 | 94.1 | 61.1 | 54.1 | 48.0 | 43.5 | 57.4 |
| Pioneer 26R61 | 82.8 | 82.5 | 88.0 | 60.6 | 93.5 | 96.6 | 95.5 | 61.6 | 54.3 | 52.5 | 44.3 | 58.5 |
| SS8641 | 81.6 | 80.9 | 84.5 | 59.0 | 98.6 | 100.3 | 96.6 | 57.9 | 46.1 | 41.3 | 36.6 | 57.1 |
| AGS 2010 | 80.4 | 79.7 | 79.5 | 61.4 | 89.0 | 93.7 | 89.9 | 61.9 | 50.2 | 46.4 | 37.4 | 58.4 |
| Fleming | 80.2 | 76.9 | 71.5 | 58.8 | 89.8 | 100.2 | 98.5 | 62.1 | 54.8 | 51.8 | 42.5 | 58.1 |
| USG 3295 | 79.7 | 74.2 | 78.1 | 59.6 | 91.5 | 95.4 | 92.9 | 61.3 | 52.7 | 47.8 | 40.7 | 57.0 |
| Coker 9553 | 79.3 | 75.0 | 78.6 | 61.3 | 93.3 | 93.1 | 93.6 | 63.7 | 52.6 | 51.8 | 47.8 | 58.8 |
| USG 3209 | 78.1 | 74.3 | 68.4 | 57.9 | 97.6 | 102.4 | 100.3 | 60.9 | 55.4 | 51.0 | 44.4 | 57.6 |
| Mcintosh | 77.8 | 77.4 | 73.1 | 60.1 | 87.2 | 86.3 | 77.1 | 60.5 | 43.6 | 37.5 | 29.7 | 59.2 |
| Dominion | 77.8 | 73.7 | 73.1 | 56.9 | 90.3 | 91.9 | 90.7 | 60.5 | 49.5 | 45.3 | 39.6 | 56.8 |
| Panola | 76.4 | 72.5 | 71.0 | 58.1 | 91.5 | 93.4 | 88.9 | 60.0 | 51.4 | 47.7 | 46.1 | 56.9 |
| Pioneer 26R87 | 75.0 | 66.0 | 68.8 | 61.3 | 95.8 | 95.5 | 92.0 | 64.2 | 49.8 | 45.7 | 40.6 | 59.6 |
| Pioneer 26R12 | 74.5 | 69.7 | 73.5 | 60.0 | 79.0 | 88.5 | 89.8 | 63.3 | 49.8 | 46.5 | 42.7 | 58.3 |
| SS8308 | 73.6 | 67.2 | 61.8 | 57.4 | 83.1 | 88.6 | 86.5 | 61.7 | 54.0 | 49.7 | 46.4 | 58.2 |
| USG 3592 | 72.7 | 66.9 | 66.4 | 59.6 | 80.7 | 92.4 | 89.3 | 61.8 | 54.5 | 48.2 | 47.7 | 58.5 |
| SS520 | 68.6 | 59.8 | 54.0 | 56.4 | 80.2 | 97.1 | 98.3 | 59.3 | 49.2 | 45.8 | 33.4 | 55.8 |
| Chesapeake | 66.3 | 63.2 | 54.3 | 58.6 | 74.4 | 90.7 | 86.8 | 61.6 | 49.5 | 45.6 | 35.0 | 58.1 |
| Jamestown | ---- | 91.5 | 87.8 | 61.7 | ---- | 109.5 | 100.5 | 63.4 | ---- | 55.5 | 49.5 | 58.1 |
| Coker 9700 | ---- | 89.5 | 85.5 | 61.5 | ---- | 101.7 | 100.8 | 62.4 | ---- | 49.3 | 35.3 | 57.3 |
| Magnolia | ---- | 77.5 | 77.2 | 57.5 | ---- | 95.2 | 95.9 | 59.8 | ---- | 51.0 | 44.7 | 56.5 |
| SS8404 | ---- | 71.7 | 71.4 | 58.4 | ---- | 97.1 | 93.6 | 62.5 | ---- | 45.9 | 39.4 | 58.8 |
| LSD @ 10% | 4.3 | 5.5 | 7.5 | 5.8 | 4.8 | 5.4 | 6.7 | 1.1 | 3.8 | 5.3 | 7.1 | 0.9 |

Table 3. Yield and test weights of certain varieties tested at Griffin and Calhoun, Georgia¹

| | Griffin | | | | Calhoun | | | |
|------------------------|-------------|-------------|------------|------------|-------------|-------------|------------|------------|
| | 3-Yr Avg | 2-Yr Avg | 2008 | | 3-Yr Avg | 2-Yr Avg | 2008 | |
| | | | Yield | Test Wt. | | | Yield | Test Wt. |
| USG 3295 | ---- | ---- | 96.9 | 62.8 | ---- | ---- | 76.6 | 60.1 |
| AGS 2031 | ---- | ---- | 96.9 | 62.2 | ---- | ---- | 85.5 | 60.6 |
| Pioneer 26R12 | ---- | ---- | 99.6 | 62.6 | ---- | ---- | 72.2 | 57.3 |
| Dominion | ---- | ---- | 96.2 | 61.8 | ---- | ---- | 83.0 | 60.0 |
| SS8308 | ---- | ---- | 102.3 | 61.8 | ---- | ---- | 76.2 | 62.0 |
| SS520 | ---- | ---- | 81.6 | 59.4 | ---- | ---- | ---- | ---- |
| McIntosh | ---- | ---- | 89.7 | 62.5 | ---- | ---- | 73.5 | 61.1 |
| USG 3592 | ---- | ---- | 94.5 | 62.2 | ---- | ---- | 65.1 | 56.3 |
| SS 8641 | ---- | ---- | 112.8 | 62.8 | ---- | ---- | 83.2 | 60.1 |
| AGS 2010 | ---- | ---- | 92.8 | 62.8 | ---- | ---- | 65.1 | 59.6 |
| USG 3209 | ---- | ---- | 109.8 | 62.4 | ---- | ---- | 66.9 | 59.5 |
| Coker 9553 | ---- | ---- | 96.0 | 63.3 | ---- | ---- | 75.3 | 59.5 |
| AGS 2060 | ---- | ---- | 90.0 | 63.1 | ---- | ---- | 90.7 | 61.6 |
| Pioneer 26R61 | ---- | ---- | 90.5 | 63.1 | ---- | ---- | 63.8 | 60.3 |
| Pioneer 26R31 | ---- | ---- | 94.5 | 60.9 | ---- | ---- | 62.3 | 58.1 |
| Fleming | ---- | ---- | 88.6 | 62.8 | ---- | ---- | 53.5 | 55.6 |
| Panola | ---- | ---- | 104.9 | 61.0 | ---- | ---- | 79.9 | 58.6 |
| AGS 2026 | ---- | ---- | 104.2 | 61.8 | ---- | ---- | 69.2 | 58.6 |
| Jamestown | ---- | ---- | 103.5 | 64.2 | ---- | ---- | 77.1 | 60.1 |
| Magnolia | ---- | ---- | 102.2 | 61.9 | ---- | ---- | 91.9 | 60.8 |
| SS8404 | ---- | ---- | 99.7 | 63.2 | ---- | ---- | 60.6 | 61.7 |
| Progeny 122 | ---- | ---- | 96.2 | 62.0 | ---- | ---- | ---- | ---- |
| Chesapeake | ---- | ---- | 93.2 | 61.6 | ---- | ---- | 48.8 | 57.6 |
| AGS 2020 | ---- | ---- | 92.9 | 62.3 | ---- | ---- | 64.2 | 59.1 |
| AGS 2055 | ---- | ---- | 89.9 | 59.2 | ---- | ---- | ---- | ---- |
| Coker 9700 | ---- | ---- | 89.3 | 63.5 | ---- | ---- | 70.8 | 60.6 |
| Pioneer 26R87 | ---- | ---- | 85.8 | 64.2 | ---- | ---- | 75.1 | 61.6 |
| LSD @ 10% Level | ---- | ---- | 4.4 | 0.4 | ---- | ---- | 5.2 | 0.6 |

Please be aware of all rules and regulations regarding certified seed and patented or PVP varieties.

Consider using varieties tagged with an official certification tag. Certified seed ensures the highest quality seed available with good germination and freedom from noxious weeds. Contact the Georgia Crop Improvement Association regarding any questions with certified seed at 706-542-2351.

The University of Georgia Grain Crops web page can be found at the following url:
<http://www.caes.uga.edu/commodities/fieldcrops/gagrains/index.html>