

## Recommended Wheat Varieties for Fall Planting, 2009

One of the most important decisions that growers 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 their production area. Growers should choose several varieties to plant to reduce risk and improve their chances of success every season. The following information is provided to understand the differences in each of the varieties that are recommended in Georgia. Table 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. Although this variety is resistant to hessian fly, AGS 2000 may respond to an insecticide since several new races of hessian fly are prevalent. **Due to pest pressure and loss of yield competitiveness, this variety will be dropped in 2010.**

**AGS 2031** has excellent yield and good test weight. It has a high 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. It will lodge with high N rates. **This variety will be dropped from our recommendation list in 2010.**

**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 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.

**AGS 2035** is a new recommended variety for the 2009-2010 season. It was developed by the University of Georgia and has good leaf and stripe rust resistance, good test weight and yield, moderate hessian fly resistance but is susceptible to powdery mildew. It is medium maturing with good soil borne virus resistance.

**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 if managed with pesticides. **This variety will be dropped in 2010.**

**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 and will be dropped from the recommendation list in 2010.**

**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. 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 and is recommended for North Georgia only.**

**Magnolia** is a variety that is well suited for North Georgia. It has good yield, test weight and straw strength but is susceptible to hessian fly, leaf rust and powdery mildew but is resistant to stripe rust. It is recommended that an insecticide and fungicide be used with this variety.

**Dyna-Gro Seed:**

**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.

**Baldwin** is a UGA release that has good hessian fly resistance, good leaf and stripe rust resistance, good yield, test weight and soil borne virus resistance. It is moderately resistant to powdery mildew. It is medium late in maturity with a moderate vernalization requirement.

**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. **This variety will be dropped from the recommendation list in 2010.**

#### **Southern States Seeds:**

**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.

**SS 8308** has a very long vernalization requirement and is recommended for North Georgia only. It's pest resistance is fair to poor but performs well in north Georgia. Fungicides and at plant insecticides are recommended for use when planting this variety.

#### **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.

**Jamestown** is a new variety with good yield but moderate susceptible to leaf rust, good resistance to powdery mildew and stripe rust. It is susceptible to hessian fly. It is recommended that this variety be treated with an at-plant insecticide.

**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 <sup>1</sup>	Resistance											Awned
		Leaf Rust	Stripe Rust	Glume Blotch	Powdery Mildew	BYD	SBWM	Hessian Fly	Test Weight	Maturity	Straw Strength	Vernal Req	
AGS 2000	S	fair	poor	fair	poor	fair	poor	good	good	medium	fair	short	Yes
AGS 2031	S	good	good	good	fair	fair	good	poor	good	medium	good	medium	No
AGS 2010	C	good	good	good	good	fair	good	good	good	medium	fair	med.long	No
AGS 2060	S	good	good	fair	fair	fair	good	good	good	early	fair	short	Yes
AGS 2020	S	good	good	good	good	fair	good	fair	good	early med	good	short	Yes
AGS 2026	S	good	good	good	good	fair	good	good	good	medium	fair	medium	No
AGS 2035	S	good	good	fair	fair	fair	good	good	good	medium	good	medium	Yes
Fleming	C	good	good	fair	good	poor	poor	fair	good	early	fair	Very short	Yes
Baldwin	C	good	good	good	fair	fair	good	good	good	med. Late	good	medium	Yes
Pioneer 26R61	S	fair	good	fair	poor	fair	good	good	good	medium	good	medium	Yes
Roberts**	P.M.	poor	very poor	good	good	fair	good	poor	good	late	fair	long	No
SS 8641	S	good	good	fair	good	fair	good	good	good	medium	fair	med long	No
USG 3209	S	fair	good	fair	good	fair	good	poor	fair	medium	good	medium	No
USG 3592	P,M	good	poor	good	good	fair	good	fair	good	medium	fair	medium long	No
USG 3295	S	good	good	fair	good	fair	good	poor	good	medium	good	medium	No
Oglethorpe	S	good	good	good	fair	fair	good	good	good	medium	fair	medium	No
Coker 9553	P,M	good	good	fair	good	fair	fair	poor	good	early	good	medium long	Yes
Dominion	P,M	good	good	good	good	fair	good	poor	good	late	good	long	No
Jamestown	P,M	poor	good	fair	good	fair	good	poor	good	medium	good	medium	No
Magnolia	P, M	poor	good	fair	poor	fair	--	fair	good	medium	good	medium	Yes
SS 8308	P, M	poor	fair	good	fair	fair	good	good	good	medium	good	long	yes

\*\*Recommended for use as forage only. 1. S=statewide, C=coastal plains only, P,M= piedmont and mountains

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.georgiagrains.com>

**Table 2. Yield and test weights of certain varieties tested at Tifton, Plains and Midville, Georgia, 2008**

Brand/Variety	Tifton				Plains				Midville			
	3-Yr Avg	2-Yr Avg	2009		3-Yr Avg	2-Yr Avg	2009		3-Yr Avg	2-Yr Avg	2009	
	-----bu/Ac-----			---lb/bu---	-----bu/Ac-----			---lb/bu---	-----bu/Ac-----			---lb/bu---
AGS 2035	91.7	89.0	79.3	57.1	94.7	89.2	72.9	56.5	60.9	59.2	69.3	56.3
Pioneer 26R31	87.3	85.6	78.6	52.9	85.4	71.1	46.0	46.6	44.7	36.8	32.7	51.2
Dyna-Gro Baldwin	86.7	87.0	85.2	57.5	92.2	85.8	71.2	56.6	56.6	57.2	65.9	56.5
Jamestown	86.1	81.6	75.4	57.5	94.1	81.9	63.2	56.4	62.7	63.3	77.1	60.0
AGS 2026	86.0	86.5	79.2	57.1	87.6	81.1	65.1	55.6	52.0	43.3	48.8	52.2
AGS 2020	84.6	82.5	79.6	54.9	94.9	82.3	60.2	52.9	65.5	62.7	74.8	57.2
Oglethorpe	84.0	83.3	74.7	55.8	91.0	82.8	62.3	54.5	47.9	43.0	49.7	54.1
SS8641	80.3	81.8	79.1	57.3	91.4	85.0	73.5	57.6	41.9	39.9	43.2	53.5
AGS 2031	77.7	77.7	72.6	54.1	85.6	77.9	61.7	55.5	52.9	53.2	62.9	52.9
Pioneer 26R61	77.5	77.8	67.7	56.6	85.7	79.8	64.0	56.5	52.5	48.5	52.6	54.4
AGS 2060	76.6	76.9	63.1	56.3	91.6	89.4	78.4	56.7	56.0	57.9	64.9	58.5
Magnolia	73.9	71.9	66.6	56.2	83.9	78.6	61.4	54.2	53.0	50.9	57.1	53.9
USG 3295	73.8	75.6	73.0	54.0	85.4	79.1	65.3	55.7	51.4	49.6	58.5	53.9
Fleming	67.8	60.6	49.7	51.7	89.8	83.7	68.8	54.6	53.0	48.9	55.4	56.9
Coker 9553	66.9	64.7	50.9	55.8	80.9	75.1	56.5	56.9	55.4	55.3	62.7	59.6
Panola	66.3	62.4	53.7	53.8	80.1	71.2	53.5	52.9	51.3	52.3	58.4	53.8
USG 3209	62.0	52.8	37.3	52.1	83.1	72.4	44.6	52.5	52.3	49.6	54.7	56.1
SS8308	61.3	55.5	49.3	52.1	77.9	71.5	56.6	55.6	54.6	55.4	64.4	55.9
<b>Average</b>	<b>76.7</b>	<b>72.6</b>	<b>64.9</b>	<b>54.3</b>	<b>87.6</b>	<b>77.7</b>	<b>60.0</b>	<b>53.9</b>	<b>53.2</b>	<b>49.7</b>	<b>55.9</b>	<b>54.1</b>
<b>LSD @ 10%</b>	<b>4.8</b>	<b>5.4</b>	<b>8.1</b>	<b>1.2</b>	<b>4.1</b>	<b>4.6</b>	<b>6.5</b>	<b>1.0</b>	<b>5.7</b>	<b>7.6</b>	<b>12.0</b>	<b>1.8</b>

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

	Griffin				Calhoun			
	3-Yr Avg	2-Yr Avg	2009		3-Yr Avg	2-Yr Avg	2009	
			Yield	Test Wt.			Yield	Test Wt.
SS8641	---	96.4	80.1	58.0	---	75.5	67.8	57.3
SS8308	---	93.7	85.1	58.6	---	75.2	74.2	60.0
USG3295	---	93.4	89.8	59.5	---	75.1	73.7	57.6
Magnolia	---	91.6	81.0	57.0	---	85.1	78.2	57.8
Panola	---	90.2	75.4	57.2	---	82.6	85.4	59.7
AGS 2031	---	89.4	81.8	59.1	---	81.0	76.5	58.0
USG 3209	---	87.7	65.6	57.4	---	67.2	67.8	55.0
AGS 2020	---	86.0	79.1	57.5	---	66.3	68.4	55.6
AGS 2060	---	85.6	81.2	60.3	---	78.7	66.6	56.3
Coker 9553	---	84.6	73.1	60.5	---	79.5	83.6	60.8
AGS 2026	---	79.7	55.2	57.5	---	69.1	69.4	54.9
Dyna-Gro Baldwin	---	78.8	59.5	56.5	---	71.9	61.6	50.7
Jamestown	---	78.1	52.7	60.0	---	71.0	64.8	56.9
Oglethorpe	---	77.9	49.4	56.5	---	68.2	67.0	57.0
USG 3592	---	76.7	58.9	56.8	---	63.1	61.1	57.6
Pioneer 26R61	---	75.7	60.9	58.6	---	63.2	62.5	56.8
SS8404	---	69.5	39.4	53.8	---	57.2	53.8	56.7
<b>Average</b>	---	83.3	72.0	57.9	---	70.9	71.3	56.8
<b>LSD</b>	---	N.S.	8.9	2.3	---	7.8	9.1	1.4

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