

## Alabama Hessian Fly 2009-2011 Results of Replicated Tests in Belle Mina, AL

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**Variety tests:** Hessian fly populations were much lower in spring 2010 and spring 2011 than in spring 2009. Hessian flies had no impact on yield in 2010 and 2011. The tables below summarize the results of 3 years of Hessian fly variety tests. Oglethorpe, AGS 2010, Pioneer 26R61, and AGS 2026 had the fewest Hessian flies. Yields show that AGS 2026 yielded fairly well in both locations in all years. Yield performance of Oglethorpe was more variable.

Belle Mina, AL

Variety	Yield (bu/a)			Late Spring Hessian Fly Infestation Percent Infested Stems	
	2009	2010	2011	2009	2010
<b>AGS 2010</b>	<b>72.3</b> c	-	-	<b>1.04</b> b	-
<b>AGS 2026</b>	<b>80.4</b> ab	<b>59.8</b> a	<b>88.02</b> abc	<b>0.00</b> b	<b>0.0%</b> d
AGS 2035	-	50.3 b	81.93 abc	-	9.3% bc
AGS 2060	-	51.6 b	66.43 e	-	7.1% cd
Baldwin	-	-	78.06 cd	-	-
Coker 9553	-	-	71.83 de	-	-
Coker 9804	73.3 c	-	-	35.60 a	-
Magnolia	72.8 c	-	-	39.16 a	-
<b>Oglethorpe</b>	<b>83.7</b> a	<b>54.9</b> ab	<b>75.97</b> cd	<b>1.23</b> b	<b>0.0%</b> d
Pioneer 26R22	-	55.8 ab	88.84 ab	-	12.1% abc
<b>Pioneer_26R61</b>	<b>77.3</b> abc	-	-	<b>8.89</b> b	-
Progeny_117	73.7 c	-	-	32.00 a	-
SS 8404	76.4 bc	51.5 b	-	28.27 a	18.6% a
Terral 8861	-	-	90.31 a	-	-
USG 3120	-	-	80.82 bc	-	-
USG 3209	60.4 d	50.4 b	-	37.51 a	12.9% abc
USG 3251	-	-	88.79 ab	-	-
USG 3295	-	53.2 b	-	-	16.4% ab
USG 3555	-	59.9 a	-	-	13.6% abc

Plots were 5X20 feet. Yields adjusted to 13.5% 60 lb/bu. Tukey's LSD.  $P=0.05$ . Yellow highlights= tolerance to "Biotype L"

## Alabama Hessian Fly 2009-2011 Results of Replicated Tests in Prattville, AL

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Prattville, AL

Variety	Yield (bu/a)		Late Spring Hessian Fly Infestation Percent Infested Stems			
	2009	2010	2011	2010		
<b>AGS 2010</b>	<b>69.0</b> ab	-	-	-		
AGS 2020	48.3 bc	-	-	-		
<b>AGS 2026</b>	<b>60.0</b> abc	<b>56.9</b> abc	<b>82.53</b> a	<b>1.4%</b> c		
AGS 2035	-	63.5 a	-	10.0%	ab	
AGS 2060	-	53.8 c	76.61 bc	6.4%	bc	
Baldwin	-	-	78.81 abc	-		
Coker 9553	49.8 bc	56.1 abc	79.79 abc	10.0%	ab	
Georgia Gore	43.8 c	-	-	-		
<b>Oglethorpe</b>	<b>56.6</b> abc	<b>54.5</b> bc	<b>80.68</b> abc	<b>0.0%</b> c		
Pioneer 26R22	-	59.4 abc	83.47 a	13.9%	a	
<b>Pioneer_26R61</b>	<b>54.8</b> abc	-	-	-		
SS 8641	-	61.6 ab	-	9.4%	ab	
Terral 841	-	-	75.26 c	-		
Terral 8861	-	-	81.72 ab	-		
USG 3120	-	-	-	-		
USG 3209	41.7 c	59.0 abc	-	11.4%	ab	
USG 3251	-	-	83.07 a	-		
USG 3555	-	53.8 c	82.43 a	11.6%	ab	
USG 3592	69.9 a	-	-	-		

Plots were 5X20 feet. Yields adjusted to 13.5% 60 lb/bu. Tukey's LSD.  $P=0.05$ . Yellow highlights=tolerant to "Biotype L."