

2010

Suggested Soybean Variety list

Variety selection is one of the most critical decisions of all the components involved with growing a productive and profitable soybean crop. Selecting a variety capable of producing a high yielding, quality crop consistently across a range of environmental conditions is very important to the profitability and sustainability of each soybean crop. Factors such as soil type, irrigation capabilities, drainage, planting date, row pattern, harvest capabilities, and the production of other crops all influence the selection of the proper variety or in most cases varieties for each farm operation.

The following list was compiled to serve as a condensed list of varieties that perform consistently across a range of environments. Consistent performance across a range of environmental conditions is important to producing sustainable, productive, and profitable crops. This list was developed to provide you with a list of varieties that have shown to produce consistent yields. These choices were made based on performance in the MSU variety trials, long-term yield performance, and personal field observations. The selection of promising new varieties on the list was based almost entirely on yield performance in the 2008 and 2009 MSU variety trials. We encourage you to plant these “promising” new varieties on a limited scale to determine if they have a fit on your farm operation.

Environmental conditions are rarely the same from year to year or even within a single growing season. Thus it is important to diversify your variety selection each year by picking multiple varieties that will help to reduce risk and cover a range of environmental conditions often encountered each season.

The best variety trial is the one you conduct on your own farm under your management practices. Keep in mind it is important to not plant your entire crop to one variety but plant multiple varieties, and plant new varieties on a limited scale to determine if they have a fit on your farm operation within your management strategies. Keep in mind there is no such thing as a perfect variety. Every variety has some weaknesses. With that in mind, it is important to diversify your variety selection to find the “next to perfect” varieties for your individual farm operation.

Please attain a copy of the Mississippi Soybean Variety trials in its entirety to help aid you in the variety selection process. The variety trial publication can be found on the MSUcares website (www.msucares.com) or in your local county extension office.

If you have any questions or comments, please do not hesitate to contact your county extension office, MSU area agronomist, or your extension specialist.



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Roundup Ready Maturity Group III's

Hornbeck 3927	NK S39-A3	Armor 39-K4	Asgrow 3905	Asgrow 3906
Asgrow 3803**				

Roundup Ready Maturity Group IV's (Early)

Asgrow DKB46-51	DK 4560**	Asgrow 4403	Hornbeck 4527	NK S44-D5	Asgrow 4303**
Pioneer 94B73	Dynagro 33Y45	Pioneer 94Y20**	Asgrow 4605	Asgrow 4703	Terral 46R15
Schillinger 457					

Roundup Ready Maturity Group IV's (Late)

Asgrow DK4866	Hornbeck 4924	Asgrow 4903	Asgrow DP4888	Delta Grow 4970
Schillinger 495	Progeny 4906	Delta King 4968	Terral 47R18	Pioneer 94Y80**
Delta Grow 4975	Asgrow 4907**	Dyna-Gro 37P49	Morsoy 4824	Terral 49R17
Terral-REV 49R20**	Pioneer 94Y90**	NK S49-H7**	Pioneer 94M71 (dryland) ¹	

Roundup Ready Maturity Group V's (Early)

Pioneer 95M50	NK S56-D7	NK S54-M7**	Delta Grow 5555	AgVenture 51X5**
Asgrow DK5068	Hornbeck 5525	FFR 5663	Hornbeck 5226	Terral 55R15
Progeny 4949	Armor GP-533	Asgrow 5503**	AgVenture 50X6**	Delta King 52K6
Pioneer 95Y01**	Armor GP-500	Dyna-Gro 33B52	Progeny 5650	Asgrow 5606**
Dyna-Gro 35F55**	Pioneer 95Y30**	AgVenture 54X4**	Terral 54R10-REV**	

Roundup Ready Maturity Group V's (Late)

Terral 59R16	Progeny 5706	Dyna-Gro 33C59	Asgrow DP5808	Delta Grow 5970
Terral 57R16	Asgrow 5905			

Liberty Link varieties: Maturity Group IV's: Hornbeck Halo 4:94** Miami 949LL**

Conventional varieties

Maturity Group IV's

Hornbeck C4926
Hornbeck C4929**

Maturity Group V's (Early)

Hornbeck C5025 Jake
Hornbeck C5528** Hutcheson

Varieties are chosen based upon overall consistency, yield performance, field observations, results from variety trials, and/or ability to perform consistently across a wide range of environments.

¹ Handles dryland stress well. Does well in early planted, dryland environment.

** Indicates that a variety is a "Promising New Variety" and was selected based on excellent yield performance in Mississippi State University Variety Trials, but minimal field testing in production settings.

Reference guide for suggested varieties

Important: This guide was developed to serve as a reference in the variety selection process. Factors such as soil type, planting date, surface drainage, irrigation capabilities, row spacing, and harvest capacity influence selecting the proper varieties for each farm operation.

Soil type information: Every variety has a soil type or range of soil types it is best suited for in order to reach full yield potential. The “preferred” soil type for each “short-list” variety is listed in the table below. This is not to say that a given variety will not perform well on soil types other than the one(s) listed below. The soil type listed for each variety is simply the “preferred” soil type. Other factors in addition to soil type such as surface drainage, raised beds vs. flat planted, and crop rotation also influence variety performance in addition to soil type. Soil type information in the table below is compiled into the three following categories:

- loam = sand, sandy loam, and silt loam (i.e. cotton soil)
- mixed = clay loam, loamy clay, clay
- heavy clay = silty clay (gumbo clay)

The following practices should be considered to reduce the potential of certain varieties (i.e. growthy varieties suited for mixed to heavy clay) from lodging when planted on loamy soils:

- Plant earlier (early April vs. mid- to late-April or May helps to reduce excessive growth)
- Reduce the seeding rate (10 to 15% from the normal recommended rate)
- Avoid planting in single 38” or 40” rows. Plant in twin-row or narrow row system
- In general, earlier maturing varieties don’t produce as much vegetative growth as later maturing varieties.
- Plant a variety better adapted for loam soils if possible.

Plant color: Most varieties listed as having a light tawny plant color are more grayish in color than tawny (tannish-gray). For this reason, varieties listed as having a light-tawny plant color are listed as “light tawny / gray” in the table below. Tawny is a brownish to tannish color, with a red or brown tinge. A gray soybean plant is light to dark gray in color. Plant color is influenced by environmental conditions as well as genetic background of the variety.

Plant height / canopy width categories: Height and growth habit are related to the genetic background of every variety. However, factors such as soil type, planting date, row pattern, seeding rate, and irrigation also affect height and canopy width for every variety.

- Plant height: short, medium-short, medium, medium-tall, tall
shortest —————> tallest
- Canopy width: thin, medium, medium-bushy, bushy
slender - upright —————> bushy

STS varieties: If the box contains “STS” then the variety is tolerant of higher use rates of Synchrony XP herbicide. Keep in mind Synchrony XP herbicide can be applied to non-STS soybean, but at lower rates than for STS soybean varieties. An STS soybean variety should be planted when soybean is planted behind wheat if Finesse or Finesse grass and broadleaf herbicide is applied to wheat. If the box in the “STS” table column does not contain the abbreviation “STS” then the variety is a non-STS variety.

Variety	Best adapted soil type	Plant color	Plant height / canopy width	STS
Group III's				
Armor 39-K4	loam to heavy clay	tawny (red)	medium-tall / bushy	
Asgrow 3803**	loam to heavy clay	gray	tall / thin	
Asgrow 3905	loam to mixed	tawny (red)	medium / medium	
Asgrow 3906	loam to mixed	tawny (brown)	medium / medium	
Hornbeck 3927	loam to heavy clay	gray	medium / bushy	
NK S39-A3	loam to mixed	light tawny / gray	medium-tall / medium	
Group IV's early				
Asgrow 4403	loam	light tawny / gray	medium-tall / thin	
Asgrow 4605	loam to mixed	light tawny / gray	short / bushy	STS
Asgrow 4703	loam to mixed	light tawny / gray	medium / bushy	
Asgrow DKB 46-51	loam to heavy clay	tawny (red)	medium / medium	
DK 4560**	mixed to heavy clay	light tawny / gray	medium-tall / bushy	
Dynagro 33Y45	loam to mixed	gray	medium / bushy	STS
Hornbeck 4527	mixed to heavy clay	tawny (red)	medium-tall / bushy	
Pioneer 94Y20**	loam to mixed	light tawny / gray	tall / medium	
NK S44-D5	loam to mixed	tawny (brown)	medium / bushy	
Pioneer 94B73	loam to heavy clay	light tawny / gray	medium-tall / bushy	
Asgrow 4303**	loam	light tawny / gray	medium-tall / medium	
Schillinger 457	loam to heavy clay	tawny (brown)	tall / medium-bushy	
Terral 46R15	mixed to heavy clay	tawny (red)	medium-tall / bushy	
Group IV's late				
Asgrow 4907**	mixed to heavy clay	light tawny / gray	medium-tall / bushy	
Asgrow 4903	loam to heavy clay	tawny (brown)	medium / bushy	STS
Delta Grow 4970	loam to heavy clay	light tawny / gray	tall / bushy	
Delta Grow 4975	loam to heavy clay	light tawny / gray	medium-tall / bushy	
Asgrow DK 4866	loam to heavy clay	light-tawny / gray	medium-tall / bushy	STS
Delta King 4968	mixed to heavy clay	gray	medium-tall / bushy	
Asgrow DP 4888	mixed to heavy clay	tawny (red)	tall / bushy	STS
Dyna-Gro 37P49	mixed to heavy clay	tawny (brown)	medium-tall / medium	
Hornbeck 4924	loam to heavy clay	light-tawny / gray	tall / bushy	
Progeny 4906	loam to mixed	tawny (red)	medium-tall / bushy	
Schillinger 495	loam to heavy clay	light tawny / gray	tall / medium-bushy	
Morsoy 4824	loam to heavy clay	light tawny / gray	medium-tall / bushy	STS
Terral 47R18	mixed to heavy clay	tawny (red)	medium-tall / bushy	
Terral 49R17	mixed to heavy clay	tawny (brown)	tall / bushy	
Terral-REV 49R20**	mixed to heavy clay	light tawny / gray	medium-tall / bushy	
Pioneer 94Y90**	loam to mixed	light tawny / gray	tall / medium-thin	
Pioneer 94Y80**	mixed to heavy clay	light tawny / gray	medium-tall / bushy	
Pioneer 94M71	mixed to heavy clay	tawny (brown)	tall / bushy	
NK S49-H7**	mixed to heavy clay	tawny (red)	medium-tall / bushy	
Group V's early				
AgVenture 51X5**	loam to heavy clay	tawny (red)	tall / medium-bushy	STS
AgVenture 54X4**	mixed to heavy clay	tawny (red)	medium-tall / bushy	
AgVenture 50X6**	mixed to heavy clay	gray	medium-tall / medium	
Armor GP-500	loam to mixed	tawny (red)	medium / bushy	
Armor GP-533	loam to clay	tawny (red)	medium / bushy	
Delta Grow 5555	loam to mixed clay	gray	medium / bushy	
Asgrow DK5068	mixed to heavy clay	gray	tall / bushy	
Delta King 52K6	loam to clay	tawny (red)	medium / bushy	
Asgrow 5503**	loam to heavy clay	tawny (red)	medium-tall / bushy	
Asgrow 5606**	mixed to heavy clay	tawny (red)	medium-tall / bushy	

Variety	Best adapted soil type	Plant color	Plant height / canopy width	STS
Pioneer 95Y01**	loam to heavy clay	tawny (red)	tall / bushy	
Dyna-Gro 33B52	mixed to heavy clay	gray	medium / bushy	
Pioneer 95Y30**	heavy clay	gray	medium-tall / bushy	
Dyna-Gro 35F55**	mixed to heavy clay	gray	medium / bushy	
FFR 5663	loam to mixed	tawny (red)	medium / bushy	
Hornbeck 5226	loam to heavy clay	tawny (red)	medium-tall / bushy	
Hornbeck 5525	loam to heavy clay	tawny (red)	medium-tall / bushy	
NK S54-M7**	loam to heavy clay	tawny (red)	tall / bushy	
NK S56-D7	loam to heavy clay	tawny (red)	medium-tall / medium-bushy	
Pioneer 95M50	loam to heavy clay	tawny (red)	medium / bushy	STS
Progeny 4949	mixed to heavy clay	tawny (brown)	tall / bushy	
Progeny 5650	mixed to heavy clay	gray	medium-tall / bushy	
Terral 55R15	heavy clay	gray	tall / bushy	
Terral 54R10-REV**	loam to mixed	gray	medium-tall / bushy	
Group V's late				
Asgrow 5905	loam to heavy clay	gray	medium-tall / bushy	
Delta Grow 5970	mixed to heavy clay	gray	tall / bushy	
DPL 5808	mixed to heavy clay	tawny (brown)	medium-tall / bushy	
Dyna-Gro 33C59	mixed to heavy clay	gray		
Progeny 5706	loam to mixed	gray	medium-tall / bushy	
Terral 57R16	mixed to heavy clay	tawny (red)	medium-tall / bushy	
Terral 59R16	loam to heavy clay	gray	medium / bushy	
Liberty Link				
Hornbeck Halo 4:94**	loam to heavy clay	light tawny / gray	medium-tall / bushy	
Miami 949LL**	mixed to heavy clay	gray	medium-tall / bushy	
Conventional IV's				
Hornbeck C4926	loam to heavy clay	gray	tall / bushy	
Hornbeck C4929**	loam to heavy clay	tawny (brown)	tall / bushy	
Conventional V's				
Hornbeck C5025	heavy clay	gray	tall / bushy	
Hutcheson	loam to heavy clay	gray	medium / bushy	
Jake	loam to heavy clay	tawny (red)	medium / bushy	
Hornbeck C5528**	loam to heavy clay	tawny (brown)	medium / bushy	