

2011

Soybean Variety Short 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.



2011 Soybean Variety Short List

Roundup Ready Maturity Group III's

Hornbeck 3927 NK S39-A3 Asgrow 3803 Pioneer 93Y92**

Roundup Ready Maturity Group IV's (Early)

Asgrow 4403 NK S44-D5 Asgrow 4303 Progeny 4606** Pioneer 94B73
 Asgrow 4605 Armor 42-M1** Asgrow 4531** Pioneer 94Y40** REV TM 44R22**
 Dyna-Gro 34RY46** Asgrow DKB 46-51

Roundup Ready Maturity Group IV's (Late)

Asgrow DK4866 Hornbeck 4924 Asgrow 4903 Morsoy 4824 Delta King 4744s**
 Progeny 4906 Pioneer 94Y80 Pioneer 94Y90 Asgrow 4907 AgVenture 48A8RR**
 NK S49-A5** Dyna-Gro 37P49 Asgrow 4730** Terral-REV 49R22**

Roundup Ready Maturity Group V's (Early)

Armor GP-500 AgVenture 51X5 Asgrow DK5068 Terral 55R15 Hornbeck RY5220**
 Progeny 4949 Asgrow 5503 Pioneer 95Y01 NK S54-M7 Dyna-Gro 33B52
 Progeny 5650 Asgrow 5606 AgVenture 54X4 Terral 54R10-REV** Dyna-Gro 37RY52**

Roundup Ready Maturity Group V's (Late)

Terral 59R16 Progeny 5706 Dyna-Gro 33C59 Delta Grow 5970 Asgrow 5831**

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)

Progeny 5770** Jake
 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.

** 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.



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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				
Asgrow 3803	loam to heavy clay	gray	tall / thin	
Hornbeck 3927	loam to heavy clay	gray	medium / bushy	
NK S39-A3	loam to mixed	light tawny / gray	medium-tall / medium	
Pioneer 93Y92**	loam to mixed	light tawny	medium-tall	
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 4303	loam to mixed	light tawny	short / bushy	
Asgrow DKB 46-51	loam to heavy clay	tawny (red)	medium / medium	
Asgrow 4531**	loam to mixed	light tawny	medium-tall /bushy	STS
Armor 42-M1**	loam to mixed	tawny (brown)	medium/bushy	
Dyna-gro 34RY46**	loam	tawny (brown)	medium-tall /bushy	STS
Pioneer 94Y40**	loam to mixed	light tawny	medium-tall /bushy	
Pioneer 94B73	loam to heavy clay	light tawny / gray	medium-tall / bushy	
Progeny 4606**	loam to mixed	light tawny	medium / medium	STS
REV TM 44R22**	loam to mixed	light tawny	medium / medium	
Group IV's late				
AgVenture 48A8RR**	loam to heavy clay	light tawny	medium-tall /bushy	
Asgrow 4907	mixed to heavy clay	light tawny / gray	medium-tall / bushy	
Asgrow 4730**	loam to heavy clay	light tawny	medium / bushy	STS
Asgrow 4903	loam to heavy clay	tawny (brown)	medium / bushy	STS
Asgrow DK 4866	loam to heavy clay	light-tawny / gray	medium-tall / bushy	STS
Delta King 4744s**	loam to heavy clay	light tawny	medium-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	
Morsoy 4824	loam to heavy clay	light tawny / gray	medium-tall / bushy	STS
Terral-REV 49R22**	mixed to heavy clay	light tawny	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	
NK S49-A5**	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	
Armor GP-500	loam to mixed	tawny (red)	medium / bushy	
Asgrow DK5068	mixed to heavy clay	gray	tall / bushy	
Asgrow 5503	loam to mixed	tawny (red)	medium-tall / bushy	
Asgrow 5606	mixed to heavy clay	tawny (red)	tall / bushy	
Hornbeck RY5220**	loam to heavy clay	light tawny / gray	medium-tall / bushy	
Pioneer 95Y01	loam to heavy clay	tawny (red)	tall / bushy	
Dyna-Gro 37RY52	loam to heavy clay	gray	medium-tall / bushy	
Dyna-Gro 33B52	mixed to heavy clay	gray	medium / bushy	
NK S54-M7	loam to heavy clay	tawny (red)	tall / bushy	
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 5831**	loam to mixed	tawny (brown)	medium-tall / bushy	
Delta Grow 5970	mixed to heavy clay	gray	tall / bushy	
Dyna-Gro 33C59	mixed to heavy clay	gray	tall / bushy	

Variety	Best adapted soil type	Plant color	Plant height / canopy width	STS
Progeny 5706	loam to mixed	gray	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				
Progeny 5770**				
Hutcheson	loam to heavy clay	gray	medium / bushy	
Jake	loam to heavy clay	tawny (red)	medium / bushy	





Cross-reference guide for common soybean varieties - 2011

Important: Two varieties that genetically are the same may not perform the same side by side in the field due to differences in environmental conditions and management practices among seed increase production fields. How the seed is handled and processed between the time of harvesting in a seed increase field and planting in a grower's field also influences overall seed quality, which in turn can affect the performance of two varieties that genetically are the same.

Group III varieties			
Variety of interest	Same varieties as variety of interest		
Croplan 4013	Delta Grow 3905	Morsoy 3883	
Delta Grow 3905	Croplan 4013	Morsoy 3883	
DPL 3861	Dyna-Gro 33A37		
Dyna-Gro 33A37	DPL 3861		
Morsoy 3883	Delta Grow 3905	Croplan 4013	
Group IV varieties			
Variety of interest	Same varieties as variety of interest		
Advanta 4512	Dekalb 44-51/ Morsoy RT4480	Delta King 4461/MPV 4404	DPL 4331/ Dyna-Gro 3443 USG 7440
Armor 47-G7	Crow's C4815R/ Dekalb 46-51	Delta King 4763/ Morsoy 4731	MPV4705/ Neco 2484
Croplan 4207	Stine 4204-4		
Croplan 4398	Stine 4392-4		
Croplan 4444	Advanta 4512/ Dekalb 44-51	MPV 4404/Morsoy RT4480	DPL 4331/ Dyna-Gro 3443 USG 7440
Croplan 4455	Dyna-Gro 37A44	Morsoy RT 4485	
Croplan 4648	Stine 4502-4		
Croplan 4757	Merschman 747	Morsoy 4706	Stine 4782-4
Croplan 4842	DPL 4724	Dyna-Gro 3481/ Garst 4612	Delta Grow 4860
Croplan 4848	Crow's C48009	Garst D484RR (Advanta)	
Croplan 4877	Legacy LS47-57	Progeny 4807	Terral Rev 49R20 / Morsoy 4707
Croplan 4955	Legacy LS49-57		
Croplan LC4978	Hornbeck Halo 4:94	These are Liberty Link varieties and not Roundup Ready varieties	
Croplan 4992	Morsoy RT4902		
Croplan 4998	Channel 5351		
Crow's C48009	Garst D484RR (Advanta)	Croplan 4848	
Crow's C4815R	Armor 47-G7/ Dekalb 46-51	Morsoy 4731	MPV4705/ Neco 2484
Dekalb 44-51	Advanta 4512/ Croplan 4444	DPL 4331/Morsoy RT4480	Dyna-Gro 3443/ MPV 4404 USG 7440
Dekalb 46-51	Armor 47-G7/ Crow's C4815R	Morsoy 4731	MPV4705/ Neco 2484
Delta Grow 4150	Dyna-Gro 35B40		
Delta Grow 4460	Delta Grow 4840 / Stine 4302-4	Dyna-Gro 37F46 / Merschman 642	Delta Grow 4660
Delta Grow 4660	Delta Grow 4840 / Stine 4302-4	Dyna-Gro 37F46 / Merschman 642	Delta Grow 4460
Delta Grow 4770	Morsoy RT4806	Progeny 4706	
Delta Grow 4840	Dyna-Gro 37F46 / Merschman 642	Stine 4302-4/ Delta Grow 4460	Delta Grow 4660
Delta Grow 4975LA	Progeny 4906	Dyna-Gro 37P49	

Group IV varieties (continued)

Variety of interest	Same varieties as variety of interest		
Delta Grow 4770	Morsoy RT4806	Progeny 4706	
Delta Grow 4860	DPL 4724/ Dyna-Gro 3481	Croplan 4842	Garst 4612
Delta Grow 4870	Morsoy RT4888		
Delta King 4866	Morsoy RT4824		
DPL 4331	Advanta 4512/ Croplan 4444	Dekalb 44-51/ Morsoy RT4480	Dyna-Gro 3443/ MPV 4404 USG 7440
DPL 4724	Delta Grow 4860/ Dyna-Gro 3481	Croplan 4842	Garst 4612
Dyna-Gro 3443	Advanta 4512/ Croplan 4444	Dekalb 44-51/ Morsoy RT4480	DPL 4331/ MPV 4404 USG 7440
Dyna-Gro 3481	DPL 4724/ Delta Grow 4860	Croplan 4842	Garst 4612
Dyna-Gro 35B40	Delta Grow 4150		
Dyna-Gro 35Z49	Hornbeck 4924		
Dyna-Gro 36M49	Delta Grow 4840	Stine S4842-4	
Dyna-Gro 36Y48	Delta Grow 5160	MPV 4907	Morsoy RT4955
Dyna-Gro 37A44	Croplan 4455	Morsoy RT 4485	
Dyna-Gro 37F46	Delta Grow 4840 / Delta Grow 4460	Merschman 642 / Delta Grow 4660	Stine 4302-4/
Dyna-Gro 37P49	Delta Grow 4975LA	Progeny 4906	
Garst D484RR (Advanta)	Crow's C48009	Croplan 4848	
Garst 4512 (Advanta)	Croplan 4444/ Dekalb 44-51	Delta King 4461/ MPV 4404 Morsoy RT4480	DPL 4331/ Dyna-Gro 3443 USG 7440
Garst 4612	DPL 4724/ Dyna-Gro 3481	Croplan 4842	Delta Grow 4860
Hornbeck 4924	Dyna-Gro 35Z49		
Hornbeck Halo 4:94	Croplan LC4978	These are Liberty Link varieties and not Roundup Ready varieties	
Legacy LS47-57	Progeny 4807	Terral Rev 49R20	Morsoy 4707 / Croplan 4877
Legacy LS49-57	Croplan 4955		
Merschman 642RR	Delta Grow 4840 / Dyna-Gro 37F46	Stine 4302-4 / Delta Grow 4460	Delta Grow 4660
Merschman 742RR	Stine 4282-4		
Merschman 747	Croplan 4757	Morsoy 4706	Stine 4782-4
Morsoy RT4480	Advanta 4512/ Croplan 4444	Dekalb 44-51/MPV 4404	DPL 4331/ Dyna-Gro 3443 USG 7440
Morsoy RT 4485	Croplan 4455	Dyna-Gro 37A44	
Morsoy 4706	Croplan 4757	Merschman 747	Stine 4782-4
Morsoy 4707	Progeny 4807	Terral Rev 49R20	Croplan 4877 / Legacy LS47-57
Morsoy 4731	Armor 47-G7/ Crow's C4815R	Dekalb 46-51	MPV4705/ Neco 2484
Morsoy RT4806	Delta Grow 4770	Progeny 4706	
Morsoy RT4824	Delta King 4866		
Morsoy RT4888	Delta Grow 4870		
Morsoy RT4902	Croplan 4992		
Morsoy RT4955	Dyna-Gro 36Y48	MPV 4907	Delta Grow 5160
MPV 4404	Advanta 4512/ Croplan 4444	Dekalb 44-51/ Morsoy RT4480	DPL 4331/ Dyna-Gro 3443 USG 7440
MPV4705	Armor 47-G7/ Crow's C4815R	Dekalb 46-51	Morsoy 4731/ Neco 2484
MPV 4905	Stine 5142-4		
MPV 4907	Dyna-Gro 36Y48	Delta Grow 5160	Morsoy RT4955
Neco 2484	Armor 47-G7/ Crow's C4815R	Dekalb 46-51	Morsoy 4731 / MPV4705
Progeny 4206	Stine 4182-4		
Progeny 4706	Delta Grow 4770	Morsoy RT4806	

Group IV varieties (continued)

Variety of interest	Same varieties as variety of interest		
Progeny 4807	Terral Rev 49R20	Croplan 4877	Legacy LS47-57 / Morsoy 4707
Progeny 4906	Delta Grow 4975LA	Dyna-Gro 37P49	
Stine 4020-4	Croplan 4207		
Stine 4182-4	Progeny 4206		
Stine 4282-4	Merschman 742RR		
Stine 4392-4	Croplan 4398		
Stine 4302-4	Delta Grow 4840 / Delta Grow 4460	Dyna-Gro 37F46 / Merschman 642	Delta Grow 4660
Stine 4502-4	Croplan 4648		
Stine 4782-4	Croplan 4757	Merschman 747	Morsoy 4706
Stine 4842-4	Dyna-Gro 36M49	Delta Grow 4840	
Terral Rev 49R20	Progeny 4807	Croplan 4877	Legacy LS47-57 / Morsoy 4707
USG 7440	Advanta 4512/ Croplan 4444	Dekalb 44-51/MPV 4404	DPL 4331/ Morsoy RT4480 Dyna-Gro 3443

Group V varieties

Variety of interest	Same varieties as variety of interest		
Advanta 5212	Croplan 5332	FFR 5225	
Channel 5351	Croplan 4998		
Croplan 5003	FFR 5033		
Croplan 5007	Delta Grow 5300		
Croplan 5222	Crow's R5212	Crow's C5215R	Dekalb DKB53-51
Croplan 5252	Crow's C5118R		
Croplan 5332	Advanta 5212	FFR 5225	
Croplan 5437	Morsoy RT5407	Stine 5482-4	
Croplan 5454	Dekalb 54-51	Hartz 5444	Morsoy RT 5252N
Croplan 5555	Crow's R5502		
Croplan 5892	Garst 5812	Morsoy RT5999	
Croplan 5955	Delta Grow 5830		
Croplan 5972	Delta Grow 5960	USG7582	Garst 5924
Crow's C5118R	Croplan 5252		
Crow's R5212	Crow's C5212R	Croplan 5222	Dekalb DKB53-51
Crow's C5215R	Crow's R5212	Croplan 5222	Dekalb DKB53-51
Crow's R5502	Croplan 5555		
Dekalb DKB53-51	Crow's R5212	Crow's C5215R	Croplan 5222
Dekalb 54-51	Croplan 5454	Hartz 5444	Morsoy RT 5252N
Dekalb 57-51	Delta Grow 5650	Hartz 5887	
Delta Grow 5160	Dyna-Gro 36Y48	MPV 4907	Morsoy RT4955
Delta Grow 5280	Delta Grow 5450		
Delta Grow 5300	Croplan 5007		
Delta Grow 5450	Delta Grow 5280		
Delta Grow 5650	Dekalb 57-51	Hartz 5887	
Delta Grow 5830	Croplan 5955		
Delta Grow 5960	Croplan 5972	Garst 5924	USG7582
FFR 5033	Croplan 5003		
FFR 5225	Advanta 5212	Croplan 5332	Hornbeck 5422
Garst 5212 (Advanta)	Croplan 5332	FFR 5225	Hornbeck 5422

Group V varieties (continued)			
Variety of interest	Same varieties as variety of interest		
Garst 5656	MPV 5505	Neco RR2544NSTS	
Garst 5812	Croplan 5892	Morsoy RT5999	
Garst 5924	Croplan 5972	Delta Grow 5960	USG7582
Hartz 5444	Croplan 5454	Morsoy RT 5252N	Dekalb 54-51
Hartz 5887	Delta Grow 5650	Dekalb 57-51	
Legacy LS55-57	Progeny 5308		
Legacy 55-56	Morsoy RT5506		
Morsoy RT 5252N	Croplan 5454	Hartz 5444	Dekalb 54-51
Morsoy RT5407	Croplan 5437	Stine 5482-4	
Morsoy RT5506	Legacy 55-56		
Morsoy RT5906	Progeny 5706		
Morsoy RT5999	Croplan 5892	Garst 5812	
MPV 5505	Garst 5656	Neco RR2544NSTS	
Neco RR2544N	Garst 5656	MPV 5505	
Progeny 5308	Legacy LS55-57		
Progeny 5706	Morsoy RT5906		
Stine 5142-4	MPV 4905		
Stine 5482-4	Croplan 5437	Morsoy RT5407	
USG7582	Croplan 5972	Delta Grow 5960	Garst 5924

Information used to develop this listing was obtained from multiple sources including university and seed company resources. This information was collected at random from regulatory samples, thus not all varieties that are the same as other varieties may be listed. In addition, some varieties listed are no longer sold commercially.

Information contained within this publication was compiled by Trey Koger, Soybean Extension Specialist, Mississippi State University Extension Service, Mississippi State, MS. Please contact Trey if you have any questions or comments (tkoger@drec.msstate.edu or 662-207-1604)