Renwood Farms

2017 Soybean Variety News

USG 74A74RS Sets New Soybean Yield Record

If there was ever any doubt that today's USG soybean genetics can produce high yields, those doubts were laid to rest in 2015 and again in 2016. Georgia farmer Randy Dowdy produced a new Georgia irrigated soybean yield record of 121 bu. /acre in 2015 with USG 74A74RS. In 2016, Dowdy set a world irrigated soybean yield record of 171 bu. /acre, again with USG 74A74RS.

USG 74A74RS is a race-horse type of soybean variety brought to market by Renwood Farms. This variety is ideal for high yield fields and fields under irrigation. The photo at right shows 74A74RS growing in King William Co., VA in 2016 under irrigation. This field was planted in early June and averaged just over 78 bu. /acre.

Please note the medium plant height of this MG 4.7 soybean at just over 36" and the heavy fruit set from top to bottom. The very heavy "top-crop" (cluster at the very top) contributes tremendously to the high yields as do the numerous four-bean pods. This field was planted at 160,000 seeds/acre. USG 74A74RS is part of the MG4 choice of USG soybeans:

74A74RS: high yielding fields and fields with irrigation

74B83RS: tough fields and tough weather stress conditions

74D95RS: the only MG4 with root knot nematode resistance

74K95RSN: all purpose variety that produces high yields in good conditions and can handle some stress

Xtend™ Soybeans Are Here!

The EPA announced that it is registering XtendiMax™ with Vapor Grip™ Technology, a dicamba formulation which is specifically designed to control weeds in soybean crops genetically engineered to tolerate dicamba. This announcement clears the way for farmers to utilize dicamba in the Roundup Ready Xtend crop system in 2017. Some notes:

- XtendiMax™ cannot be tank-mixed with anything
- The only nozzle allowed at this time is the TeeJet TTI11004, used at a maximum pressure of 63 psi; minimum spray volume of 10 gpa and a maximum ground speed of 15 mph;
- Spray boom should be no more than 24 inches above target; and no aerial application: buffers are required

Growers should budget about $23 /acre more for this system compared to a RR2 system without resistant weeds. USG by Renwood Farms has several Xtend soybean varieties available for the 2017 season.

Managing Nematodes in Soybeans

Nematodes are microscopic soil worms that cause significant crop yield losses. There are several types of nematodes. Some infect soybeans and not corn, some infect corn but not soybeans and some infect both corn and soybeans.

Some nematodes live inside the roots and some live on the outside. They reduce yields by feeding and removing nutrients but also by allowing fungal pathogens to enter the plant through the wounds they create.

Among the several factors used to manage nematode damage, there are two seed components: selecting genetic resistance in your seed and rotating nematicide seed treatments. Renwood Farms offers multiple genetic sources of nematode resistance and uses two different nematicide seed treatments, Votivo® and Clariva™ so growers can rotate treatments to avoid resistance.

Ignoring nematode pressure simply allows populations to build to unmanageable levels.

The two most common types of nematodes in soybeans are the Root Knot Nematode (RKN shown left) and several types of Soybean Cyst Nematode (SCN, shown right).

More Soybean Seed Options for Farmers

Growers purchasing Glyphosate Tolerant (GT) soybeans will no longer have to pay the Monsanto tech fee, resulting in a lower purchase price for certain USG soybean varieties. The average price reduction is $18 per unit for these GT varieties in 2017.

USG 74B58: This large-seeded, STS, medium-short, tawny bean has high yield potential with resistance to SDS, frogeye, stem canker and SCN 3 and 14. Very easy to harvest.

USG 7495nRS: Reliable bean with STS trait. Bushy stature with medium tall plant height. Good resistance to SDS and SCN 3 and 14. Has performed very well as a double-cropped bean for many years.

USG 7553nRS: For many years, the standard in a MG5 STS soybean. A tough bean that will pleasantly surprise growers with impressive yields in a good year. Remarkable shatter resistance with a substantial disease package

Ellis is a conventional release (**non-Roundup Ready**) soybean with a strong disease package including resistance to stem canker, cercospora, and frogeye. **Ellis** placed first in the VA Tech 2015 OVT full-season trials averaging better than 64 bushels per acre.

Renwood Farms Featured USG Varieties for 2017

Variety	Traits	RM	Notes
74A74RS	RR2, STS, N	4.7	This 2014 release is a high-yielding STS bean with some resistance to **Root-Knot Nematode**. Top yield in Renwood Farms 2014 Variety Trial at 96.8 bu. /acre. With excellent resistance to stem canker and above-average resistance to Sudden Death Syndrome (SDS).
74B83RS	RR2, STS,N	4.8	Top yield in 2014 VT OVT trials. Excellent high-yielding MG4 tawny soybean. Strong resistance to cercospora, stem canker, SDS plus SCN 3 and 14. Good shatter resistance.
74D95RS	RR2, STS, N	4.9	A high-yielding MG4 soybean with resistance to **Root-Knot Nematode**! Excellent resistance to stem canker with above-average resistance to frogeye and SDS. Produced 84.7 bu. /acre in irrigated Renwood Farms 2014 Variety Trial.
74K95RSN	RR2, STS, N	4.9	Top–yielding MG4 in VA Tech 2016 OVT Trials with excellent emergence and shatter resistance. Moderate resistance to frogeye, stem canker and SDS makes this a good choice for full-season and early double-crop. A medium-tall, determinate, semi-bushy growth habit makes it easy to harvest. Also resistant to R3 and R14 soybean cyst nematode
75B75R	RR2, RKN	5.7	**New for 2017**! A MG 5.7 soybean variety with resistance to RKN. Strong resistance to Frogeye Leaf Spot, SDS and stem canker. A tawny bean with outstanding emergence with good tolerance to metribuzin for another weed control option
75J90R	N, RR2	5.9	Top yield in NCSU OVT 3-year trials; resistant to **Root-Knot Nematode** and SCN Race 3: moderately resistant to SCN Race 14. Excellent resistance to stem canker and very good resistance to cercospora and frogeye: handles stress on light soils, produces very good yields on good soils.
75G95LS	LL, STS	5.9	**New for 2017**! A Liberty-Link/ STS tolerant soybean. Strong resistance to stem canker and SDS makes this variety a solid choice for full-season production. Very strong emergence rating and resistant to frogeye.
76S22R	N, RR2	6.2	A **Root-Knot Nematode** resistant soybean designed for the lighter soils of VA and NC. Above average yields in NC State 2014 OVT in both May and June planting. A tawny bean with a medium height and semi-bushy growth type.
76S73R	RKN, RR2	6.7	The #1 soybean yield in NC State 2014 OVT. A semi-bushy tawny soybean with medium height and above-average resistance to cercospora. Has resistance to **Root-Knot Nematode**. Best in high-yield conditions

Also for 2017: Xtend Soybeans are here: USG 7426XTS (4.2), 7496XTS (4.9), 7506XTS (5.0), 7576XTS (5.7), 7686XTS (6.8), 7757XTS (7.5)

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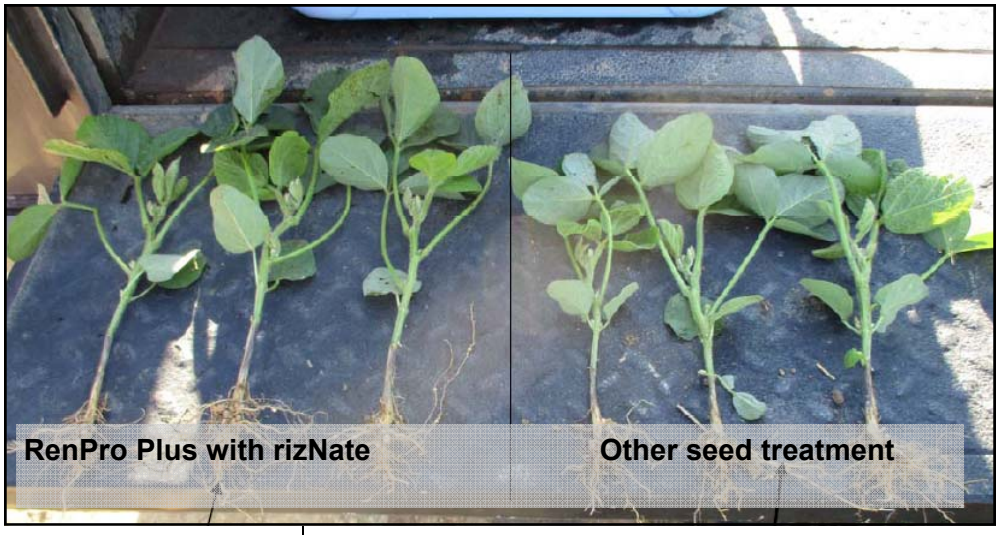
Call us with questions! Ask about prices and discounts for the best seed and seed treatments for your farm.

RenPro Soybean Seed Treatments from Renwood Farms



RenPro™ and ***RenPro Plus***™ soybean seed treatments promote rapid early growth by protecting roots from harmful pathogens. This aggressive early growth shades the ground to reduce weed competition and conserve soil moisture to produce higher yields.

RenPro™ soybean seed treatment contains **four fungicides** to help prevent pathogen resistance. These fungicides clean the seed coat and protect seedlings against diseases in cool, moist soils when planting early and diseases that stress plants in hot soils when planting in May and June.

RenPro Plus™ contains a **seed insecticide** in addition to the four fungicides. Adding a seed insecticide provides early-season protection from thrips and bean -leaf beetles which stunt plants. In double-crop beans, this treatment provides a growth stimulant effect for quick emergence and shading.

RenPro™ seed treatments contain **molybdenum**. Molybdenum is the single most limiting micronutrient in VA and NC soybean production. Low plant moly levels can reduce yields by 50%. Adding moly to the seed treatment is the least expensive way to correct this problem.

rizNate® is an encapsulated seed inoculant providing bacteria that produce nitrogen-fixing nodules on soybean roots and also contains a balance of several other free-living micro-organisms. ***rizNate***® is a biological inoculant powered by microbes that are applied to seed to biologically protect, stimulate, and enhance the seed's growth genetics.

This means better seed protection from pathogens outside the seed while promoting growth inside the seed by allowing the seed to efficiently absorb more nutrients to support a healthy growing environment for seed germination and seedling development. ***rizNate***® can be added with all ***RenPro***™ seed treatments.

Votivo® **or Clariva**® are seed treatments used to reduce nematode populations by reducing infection damage during early growth. Rotating with each crop helps to avoid resistance. Either can be ordered with ***RenPro Plus***™ soybean seed treatment and ***rizNate***® inoculant.