Renwood Farms

2016 Soybean Variety News

Weather and Disease Impact on Seed Selection

Renwood Farms offers multiple disease prevention packages (varieties and seed treatments) for soybeans because we understand the challenges farmers in this region face. Our goal is to help you reach the highest yields possible year after year.

In 2015, many soybean fields were infected with Cercospora Purple Seed Stain and Phomopsis Seed Decay. While weather influenced much of the trouble, strategies developed now will help limit damage to soybean crops as we move forward into 2016.

Cercospora is a full-season soybean disease**.** Susceptible MG4 varieties planted in May have the highest chance of injury. Infections occur between R3 and R6. Damage increases with daily periods of eight or more hours of leaf wetness.

To limit damage:

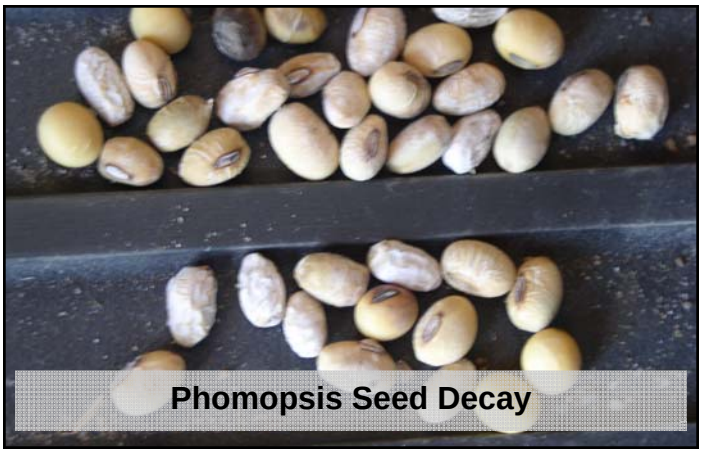
1. Apply a seed treatment to clean fungal pathogens off the seed coat.
2. Plant resistant varieties such as USG 74B83R (MG 4.8) and USG 75J90R (MG 5.9).
3. Plant a late MG5 or an early MG6 variety when planting in May and an early MG5 in early June.
4. Apply fungicides at R3 and R5 to reduce the impact of cercospora. Note that no fungicide is rated higher than “fair” against cercospora.
5. Use two foliar applications (2 qts. each) of complex-chelated iron (ex: mannitol, citric acid) to reduce cercospora damage on soybeans. Synthetic iron chelates (ex: EDTA) have had no effect on cercospora infections.

Phomopsis Seed Decay is grouped with pod and stem blight and stem canker because all three are usually found together. Foliar fungicides can limit injury from this group when applied from R3 to R5 but foliar fungicides are unlikely to eliminate any of these diseases. Low or deficient plant potassium levels allow for more damage.

To limit damage:

1. Apply a seed treatment to clean fungal pathogens off the seed coat.

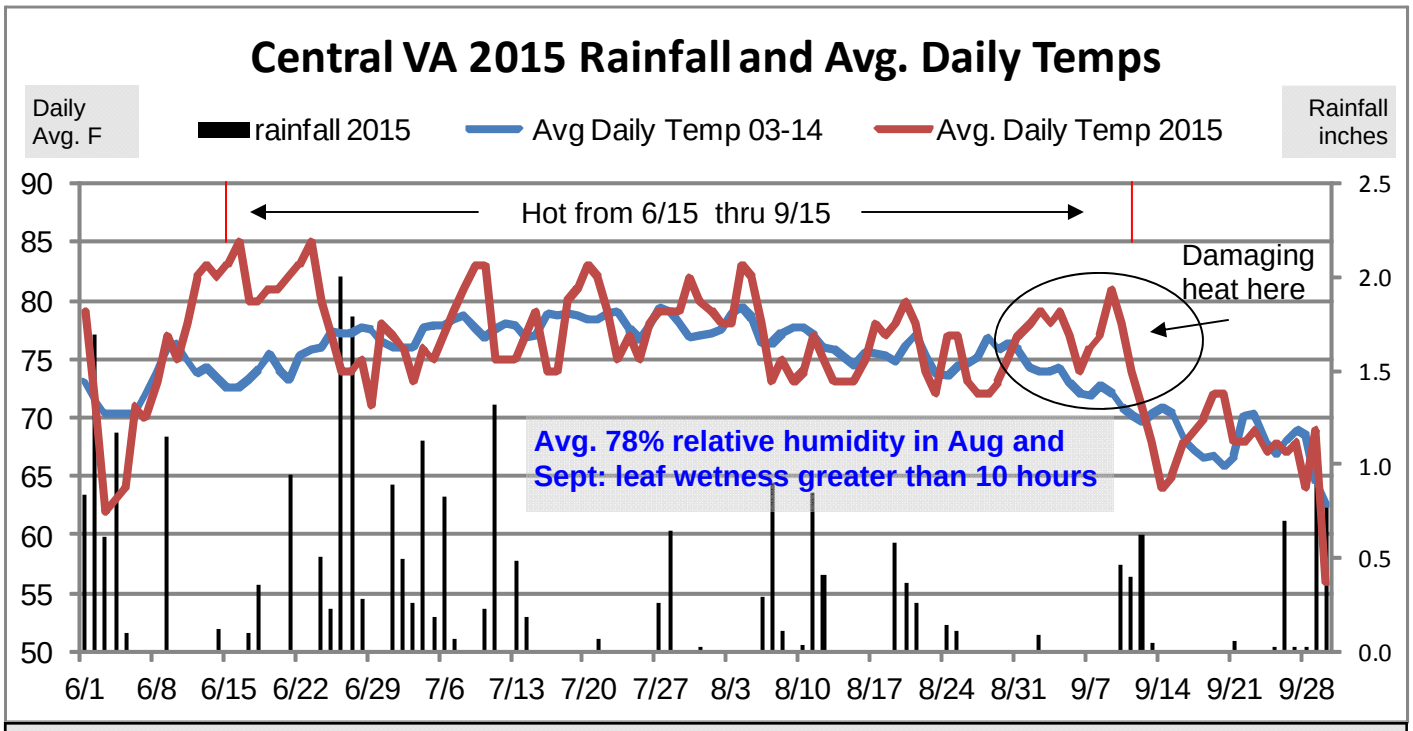
Cercospora Purple Seed Stain



Phomopsis Seed Decay

2. Plant varieties resistant to stem canker, such as USG 74K95RS, 74A74RS, 74B83R or 75J90R.
3. Plant a late MG5 or early MG6 variety when planting in May and an early MG5 in early June.
4. Avoid high populations to prevent lodging.
5. Control insects, avoid compaction and root rots.
6. Reduce nematode populations.
7. Take plant tissue samples and add foliar potash if it is limiting.
8. Harvest timely: consider defoliation.

Renwood Farms **RenPro**™ and **RenPro Plus**™ seed treatments clean the soybean seed coat as all of these diseases can be seed-borne. These seed treatments also provide the most complete root protection available anywhere. Several varieties have resistance to root-knot and/or cyst nematodes.



This graph shows the extreme weather experienced in 2015: very hot and humid with several days of high leaf wetness hours. These are perfect conditions for heavy disease pressure.

More Soybean Seed Options for Farmers

Growers purchasing Roundup Ready 1 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 **RR1 varieties** in 2016:

USG 7384nRS: Winner of 2014 VA Soybean Contest Irrigated Class with 92.6 bu. /acre. Resistant to SCN Race 3 & 14. Medium height makes this semi-bushy bean very popular. For better soils.

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 75Z38: Solid yields in stress environments with this Root-Knot Nematode resistant bean. Strong disease package with resistance to Soybean Mosaic Virus, SDS, stem canker and frogeye. For sandy soils north and south of the James River.

USG 75T40: Race 2 SCN resistance. Excellent emergence and stands well for easy harvest: 5% higher yields than maturity average in VT 2010 OVT double-crop

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 new 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 Varieties for 2016

Variety	Traits	RM	Notes
74A74RS	RR2, STS, N	4.7	This 2015 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).
74B83R	N, RR2, STS	4.8	**New for 2016!** Replaces 74B81; 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	**New for 2016!** Replaces 74B94RS. 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	**New for 2016!** A very high yielding variety 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
Progeny P5213RY	N, RR2	5.2	The top yielder in the 2013 VA Tech OVT trials at 64.6 bu. /acre combined full-season and double-cropped. The winner of the Renwood Farms 2014 MG5 Variety Trial at 81 bu. /acre. An excellent disease package: for light to medium soil types.
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.
76G10L	LL	6.1	Outstanding disease package in a Liberty Link variety. Excellent resistance to cyst nematode, stem canker, frogeye and SDS with above-average resistance to **Root-Knot Nematode**.
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	**New for 2016!** 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**.

Also available for 2016: **Progeny P5555RY, Progeny P5960LLS, Progeny P6710RY, Progeny P7310RY**

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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

In 14 side-by-side comparisons since 2013, ***RenPro Plus™*** soybean seed treatments have increased yields, ranging from 4 to 9 bu. /acre in both full-season and double-cropped trials.

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 a biological inoculant powered by microbes that are applied to seed to biologically protect, stimulate, and enhance the seed's growth genetics. It can be added with all ***RenPro™*** seed treatments.

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® protects the seed from pathogens outside the seed while promoting growth inside the seed. These **microbes** allow the seed to more efficiently absorb nutrients needed to support a healthy growing environment for seed and seedling development.

Votivo® is a microbial seed treatment used to reduce nematode populations and damage during early growth. It is the only seed treatment available today proven to limit nematode damage. Votivo can be ordered with ***RenPro Plus™*** soybean seed treatment.

Get the most out of your crops by protecting the yield potential with ***RenPro*** seed treatments. Call us with your field and cropping history so we can provide specific recommendations for your fields.