

SOYBEAN VEIN NECROSIS VIRUS



Soybean Diseases



Overview

Soybean farmers should be aware of Soybean Vein Necrosis Virus (SVNV). The disease was discovered in Arkansas and Tennessee in 2008 and has now spread to over a dozen states and Ontario, Canada. SVNV is now considered the most widespread soybean virus disease in the United States.

Scouting

Soybean Vein Necrosis Virus symptoms generally begin to appear later in the season during the reproductive stages of growth. Symptoms can be found throughout the canopy. Initial symptoms include a yellowing along the leaf vein. Later, the yellowing becomes a reddish-brown and irregularly shaped lesions will begin to expand from the vein. The tissue within the

lesion will eventually die.

Several common soybean diseases and disorders can be confused with SVNIV including brown spot, bacterial blight, bacterial pustule, downy mildew, Phyllosticta leaf spot and sudden death syndrome. Symptoms can also be confused with herbicide injury from Group 1 ACCase inhibitor and Group 2 ALS inhibitor type herbicides.

Consult the bulletin Soybean Vein Necrosis Virus on the resource page for descriptions and photos of the most common look-alike problems. It is important to accurately diagnose SVNIV and other soybean diseases to prevent unwarranted and potentially costly management decisions that will not work.

Management

SVNIV is spread by soybean thrips. As with most other insect vectored virus diseases, chemically managing the insect has not been successful because complete elimination of the pest is not possible.

Seed transmission of the virus has been reported at a rate of up to six percent. Growers should use only certified, disease-free seed.

A three-year study over six states concluded the SVNIV did not impact yield, however, seed quality may be reduced due to a reduction in oil concentration.

Distribution

[Soybean Vein Necrosis Virus](#), *Crop Protection Network CPN-1003*, 2015

[Soybean Vein Necrosis Virus -scouting video](#), NCSRP, 2014

Resources

Soybean Vein Necrosis Virus

Crop Protection Network CPN-1003, 2015

<https://cropprotectionnetwork.org/publications/an-overview-of-soybean-vein-necrosis-virus>

Soybean Vein Necrosis Virus -scouting video

NCSRP, 2014

<https://www.youtube.com/watch?v=RV03kOD4QRA>



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