CROPFOCUS

SCN Best Management Practices

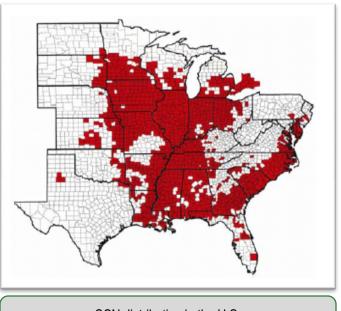
•Plant SCN-resistant soybean varieties •Rotate host and non-host plants

- •Keep plants healthy
 - Maintain soil fertility
 - Prevent/reduce pest pressure (weed, insect, disease)

Sanitation

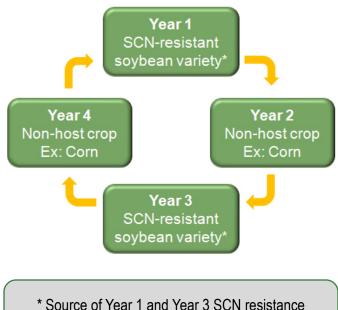
 Alfalfa Barley Canola Clover (red, white, ladino) Corn Oats Rye Sorghum Wheat Sweetclover Sweetclover White lupines Vetch (common, hairy) 	Non-host crop plants*	Host crop plants*
	 Barley Canola Clover (red, white, ladino) Corn Oats Rye Sorghum 	 Beans (green, snap, mung, bush) Adzuki beans Birdsfoot trefoil Cowpeas Clover (alsike, crimson, scarlet) Garden peas Lespedeza Sweetclover White lupines

*Some plants may be considered "poor" hosts and thus be found listed as host or non-host according to various sources.



SCN distribution in the U.S.

Example Midwest rotation.



* Source of Year 1 and Year 3 SCN resistance should be from different source lines. If this is not possible, the minimum strategy is different soybean varieties.

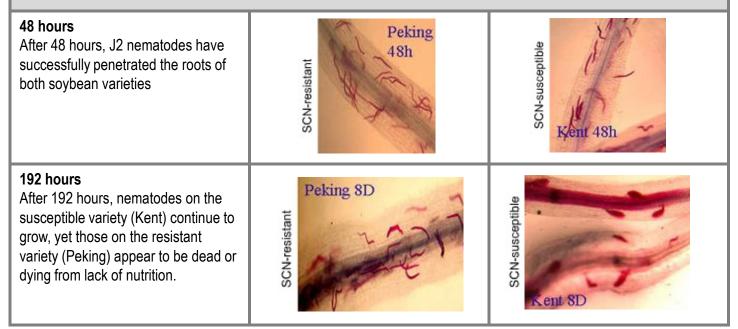


PIONEER

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Development of SCN on resistant and susceptible soybean varieties

Two varieties of soybean were inoculated with SCN J2 juveniles, Peking is an SCN-resistant variety and Kent is susceptible. *Images courtesy B. Matthews, USDA*





SCN – resistant Soybean Variety Trials (Central Iowa – 2008)							
	Yield SCN-infested field* (bu/A)		Yield Min-Max range (bu/A)		Final SCN density (eggs/100cc soil)		
	Resistant	Susceptible	Resistant	Susceptible	Resistant	Susceptible	
Nevada, IA	52.6	48.1	44.7 – 58.6	42.1 – 51.6	2,117	3,538	
*Initial SCN population density ~ 2,098 eggs per 100cc soil, HG-Type 1.2.5.6.7							