## **CROPFOCUS**

## **SCN Best Management Practices**

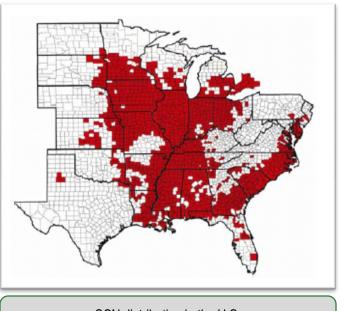
•Plant SCN-resistant soybean varieties •Rotate host and non-host plants

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

Sanitation

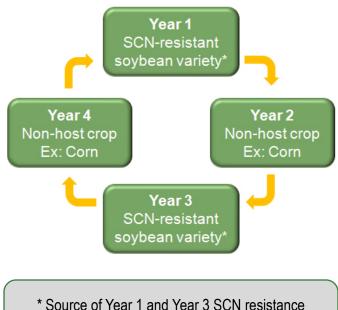
<ul> <li>Alfalfa</li> <li>Barley</li> <li>Canola</li> <li>Clover (red, white, ladino)</li> <li>Corn</li> <li>Oats</li> <li>Rye</li> <li>Sorghum</li> <li>Wheat</li> <li>Sweetclover</li> <li>Sweetclover</li> <li>White lupines</li> <li>Vetch (common, hairy)</li> </ul>	Non-host crop plants*	Host crop plants*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

\*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.

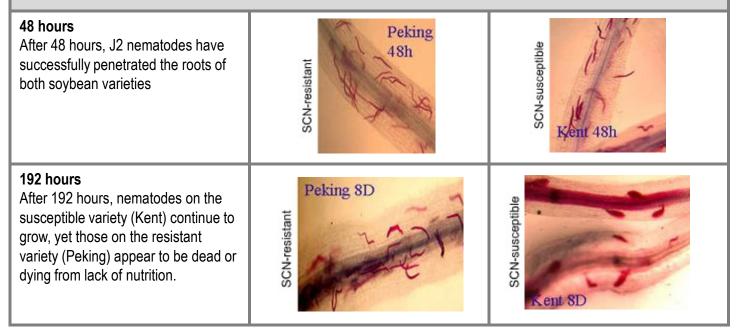


**PIONEER** 

A DUPONT BUSINESS

## 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							