

# Soybean cyst nematode: A \$250 million problem

CHAMPAIGN, Ill. (AP) — Soybean planting in Illinois is just weeks away, and while farmers worry about the possibility of plant-killing rust, some crop researchers are sounding a different alarm: Beware the soybean cyst nematode.

The tiny parasite is found in 84 percent of the state's soybean fields, according to a survey completed last year, and has evolved into a pest that can rob yield even from soybean varieties thought to be nematode resistant.

The roundworms, only about 1/64th of an inch long, suck nutrients from a plant's roots, decreasing its ability to produce beans. Their thievery is invisible — infected plants don't look sick. And unless farmers sample the soil, they may never know how much they're losing.

"It's a war, not just a battle," said Steve Stierwalt, who grows soybeans.

Terry Niblack, a University of Illinois plant pathologist, said "plenty of farmers" who get 50 or 60 bushels per acre should be getting 70 and 80.

Yield losses statewide could reach as high as \$250 million per year, she said. That represents about 10 percent of the total value of Illinois' soybean production in 2004.

Soybean farmers have spent the past couple of years learning all they can about Asian soybean rust, the devastating disease that arrived

in the United States in 2004. Many plan to spend thousands of dollars on fungicides should rust get anywhere near their fields.

"Certainly we want to be on our toes and prepared for the newest, most threatening pest, but let's not forget the fox that's already in the hen house," said Greg Tylka, an Iowa State University plant pathologist.

Researchers have spent years looking for the best way to control soybean cyst nematode. In Illinois alone, the state Soybean Checkoff Board provides about \$250,000 per year to study the pest, said Mary Burke, the board's research director.

But rather than a cure, Niblack and other researchers are finding surprises — the nematodes have a remarkable ability to adjust to human intervention.

Soybean cyst nematode was first reported in Japan about 90 years ago but likely existed in Asia long before that. Scientists believe the pest was introduced in the United States in the late 1800s, even though it wasn't discovered until 1954.

Over the years, breeders developed soybean varieties that resist the effects of nematodes and keep yield losses under control, Tylka said. Some breeders have boasted of a cure, but none has proven effective because of the pest's adaptability.

Resistant varieties are also becoming susceptible. A 1990 survey found about 60 percent of the nematodes found in Illinois were not able to attack any resistant variety of soybean, but last year's survey found the opposite, Niblack said.

The 2005 survey found an average population in Illinois of 2,700 eggs per 100 cubic centimeters of soil, about five times the threshold considered harmful, she said.

Niblack said farmers need to do more than just plant a soybean variety resistant to the parasite. They also need to sample the soil and find out the quality of the resistance in the varieties they're planting, she said.

It also isn't enough to simply rotate corn and soybeans each year in a field. She said farmers need to change the soybean variety they plant "to show the nematode something different each time."

Such rotations have worked for Stierwalt, but the farmer still hopes a way will be found to defeat the nematode.

"We have battles every year, and at this point we're hoping that there'll be something, possibly through the genetic route, that will actually give us something to win the war," he said.

On the Net:  
SCN Management Guide: <http://www.planthealth.info/scnguide>

# North Dakota wheat acres drop

FARGO, N.D. (AP) — North Dakota farmers are expected to plant 7.9 million acres of wheat this spring, the fewest since 1983, the U.S. Department of Agriculture said.

They are shifting away from wheat because they can make more money growing other crops, particularly soybeans, said Andy

Swenson, farm management specialist at the North Dakota State University Extension Service.

"They work the numbers and wheat doesn't pencil out so well," he said.

Soybean acres in the state are projected to reach a record 4.15 million acres.

The high cost of nitrogen fertilizer for is a big factor in the drop in wheat acres, he said. Soybeans don't require nitrogen fertilizer.

While nitrogen prices have fallen over the winter, they remain higher than a year ago, said Curt Marshall of Ever Green Cooperative in Tower City.

# Billion dollars sought for Katrina-struck shrimpers

WASHINGTON (AP) — The shrimpers, fishing captains and oystermen along the Gulf Coast seem like the forgotten ones as the government funnels aid to a region devastated by Hurricane Katrina. Even their own governors have higher priorities.

Very little of the \$68 billion appropriated has found its way to the watermen of the Gulf or to rebuild onshore facilities. Massive amounts of debris make shrimping dangerous in many areas. Oysterbeds are ruined by silt.

As the Senate prepares to debate the latest Katrina aid bill, the watermen of Louisiana and Mississippi are pinning their hopes on an ambitious \$1.1 billion aid plan by Sen. Richard Shelby, R-Ala., a member of the Senate Appropriations Committee.

The measure includes: —\$300 million to rebuild destroyed marinas, piers, docks, wharves and warehouses that support the commercial and recreational fishing industry.

—\$300 million to help replace fishing equipment and infrastructure, including icehouses and processing facilities.

—\$100 million to help fishermen and seafood workers clean up and repair damaged facilities.

—\$100 million to pay for the rehabilitation of oyster beds and shrimp grounds.

Govs. Haley Barbour, R-Miss., and Kathleen Blanco, D-La., have focused on getting money for housing, levees and rebuilding facilities such as shipyards, military facilities and Coast Guard bases.

Alabama had significantly less damage from last year's storms than did those two states. But Bayou La Batre, which bills itself as the seafood capital of Alabama, did suffer a big blow.

That may explain Shelby's focus on fisheries. The Senate committee this month approved a \$106.5 billion measure that combines \$27.1 billion in aid for hurricane victims with \$72.4 billion for the war in Iraq and other terrorism-fighting efforts.

Shelby's plan won approval by the committee with a voice vote and minimal debate, but faces an uncertain future. The White House did not request the fisheries money when submitting its \$19.8 billion relief plan in February.

The administration will make its

views known when the bill reaches the full Senate on April 25. The White House is more likely to take aim at \$4 billion in emergency aid to farmers that the committee added to Bush's request than it is to the fisheries provision.

Conservatives in the House are pushing to keep the bill's total cost

to Bush's request; few, if any, believe Shelby will emerge from House-Senate negotiations with the full \$1.1 billion.

"If it's half that it's still a heck of a lot of money," said Bill Walker, executive director of the Mississippi Department of Marine Resources.

# TV LISTINGS

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SUNDAY												APRIL 16	
	6 AM	6:30	7 AM	7:30	8 AM	8:30	9 AM	9:30	10 AM	10:30	11 AM	11:30	
KLBY/ABC (4, 6)	In Touch	Enjoying eternity with God.	Good Morning America (CC)	This Week-George Stephanopoulos	Hour of Power (CC)	The Coral Ridge Hour (CC)	Methodist	NBA Nation					
KSNK/NBC (3, 8)	Rebecca Gdn	Paid Program	Today (CC)	Meet the Press (CC)	Paid Program	Paid Program	Your Bible	Paid Program	Heads-Up Poker Champ.				
KBSL/CBS (12, 11)	Paid Program	Messiah Baptist	Lazy-Town	Go Diego	CBS News Sunday Morning (CC)	Face the Nation	Backyardigans	Dora the Explorer	Paid Program	Paid Program			
K15CG (2)	Euro-pean	Health-Track	Jakers!-Winks	Ribert & Robert's	Ribert & Robert's	Cyber-chase	Arthur (EI)	Maya & Miguel	Post-cards	Busi-ness	Health Sense	To the Contrary	
ESPN (28)	Sports-Center	SportsCenter (CC)	NBA Matchup	Sports-Center	Outside Lines	Sports Reports	SportsCenter (Live) (CC)					Baseball Tonight	
USA (37)	Paid Program	Paid Program	Paid Program	Paid Program	Movie: Coogan's Bluff *** (1968, Drama) Clint Eastwood, Lee J. Cobb. (CC)	PGA Tour Sunday (Live) (CC)	Monk Mr. Monk Goes to the Office						
TBS (38)	(4:30) Movie: Hook *** (1991) Dustin Hoffman. (CC)	Movie: Jumanji (1995) A sinister board game puts its players in mortal jeopardy.	Movie: The Mummy *** (1999) A mummy seeks revenge for a 3,000-year-old curse. Brendan Fraser.										
WGN (39)	Chang-ing	Paid Program	Key of David	Paid Program	Feed the Children	Paid Program	Paid Program	Hillbil-lies	Hillbil-lies	America's Funniest Home Videos (CC)			
TNT (40)	(5:00) Movie: Message in a Bottle ** (1999, Romance)	Movie: While You Were Sleeping *** (1995, Comedy) Sandra Bullock. (CC)	Movie: Blast From the Past ** (1999, Comedy) Brendan Fraser. (CC) (DVS)	Movie: Bachelor									
DSC (42)	Paid Program	Paid Program	Paid Program	Paid Program	Jesus: The Complete Story	Jesus: The Complete Story	Jesus: The Complete Story	Jesus: The Complete Story	Mega-Tsunami (CC)				
A&E (47)	Murder, She Wrote Family Secrets (CC)	Breakfast With the Arts (CC)	24 Day 3: 3:00 - 4:00 PM (CC)	24 Day 3: 4:00 - 5:00 PM (CC)	24 Day 3: 4:00 - 5:00 PM (CC)	24 Day 3: 4:00 - 5:00 PM (CC)	24 Day 3: 4:00 - 5:00 PM (CC)	24 Day 3: 4:00 - 5:00 PM (CC)	24 Day 3: 4:00 - 5:00 PM (CC)	24 Day 3: 4:00 - 5:00 PM (CC)	24 Day 3: 4:00 - 5:00 PM (CC)	24 Day 3: 4:00 - 5:00 PM (CC)	
HIST (48)	Spiffire Ace Command & Control	Busi-ness	Histo-ryCTR	Jesus of Nazareth	Jesus of Nazareth	Jesus of Nazareth	Jesus of Nazareth	Jesus of Nazareth	Jesus of Nazareth	Jesus of Nazareth	Jesus of Nazareth	Jesus of Nazareth	
NICK (55)	Grown Up	Oddpar-ents	Jimmy Neutron	Jimmy Neutron	Spon-geBob	Spon-geBob	Oddpar-ents	Oddpar-ents	The X's (CC)	Danny Phantom	Danny Phantom	Cats-crat	
DISN (56)	Koala Brothers	Higgly-town	Ein-steins	Doodle-bops	JoJo's Circus	Charlie & Lola	The Wiggles	Lilo & Stitch	W.I.T.C.-H. (CC)	Buzz-Maggie	Ameri-can Drgn	Emper-or New	
FAM (58)	Digimon-Digital	Dragon Booster	Spider-Man	A.T.O.M. (CC)	Get Ed (CC)	Kong-Series	Power Rangers	Super Robot	Power Rangers	W.I.T.C.-H. (CC)	Full House	Full House	
HALL (60)	The World of Faith and Values	Movie: Love's Enduring Promise (2004, Drama) Katherine Heigl, Dale Midkiff. (CC)	Movie: Naomi's New Morning (N)	Movie: Old Yeller *** (1957) (CC)									

SUNDAY												APRIL 16	
	12 PM	12:30	1 PM	1:30	2 PM	2:30	3 PM	3:30	4 PM	4:30	5 PM	5:30	
KLBY/ABC (4, 6)	NBA Basketball: Chicago Bulls at Miami Heat. American Airlines Arena. (Live)	NBA Basketball: Phoenix Suns at Los Angeles Lakers. Staples Center. (Live)	ABC Wild News	News (CC)									
KSNK/NBC (3, 8)	Arena Football: Colorado Crush at Kansas City Brigade. Arena American Royal Center. (Live) (CC)	Gymnastics: Pacific Alliance Championships. Honolulu. (CC)	News	NBC News									
KBSL/CBS (12, 11)	Paid Program	Paid Program	The PGA of America: 90 Years	PGA Golf: Verizon Heritage -- Final Round. From Hilton Head Island, S.C. (Live) (CC)	CBS News	News (CC)							
K15CG (2)	On the Record	McLaugh-lin	McLaugh-lin	Religion-Ethics	Billy Graham: God's Ambassador	Healthy Body	Stevens Europe	Sewing-Nancy	Beads, Baubles	Three Faiths, One God: Judaism			
ESPN (28)	PBA Bowling	PBA Bowling	PBA Bowling	PBA Bowling	College Bowling: NCAA Women's Champ	Madden Nation	Battle of the Gridiron Stars (CC)	SportsCenter (Live) (CC)					
USA (37)	Movie: The Entorcer **½ (1976, Drama) Clint Eastwood, Tyne Daly. (CC)	Movie: Magnum Force **½ (1973) "Dirty" Harry investigates gangland-style murders. Clint Eastwood.	Movie: Dirty Harry *** (1971, Drama) Clint Eastwood. (CC)										
TBS (38)	MLB Baseball: San Diego Padres at Atlanta Braves. Turner Field. (Live) (CC)	Movie: The Lord of the Rings: The Fellowship of the Ring **½ (2001, Fantasy) (PA) Elijah Wood, Ian McKellen. (CC)											
WGN (39)	America's Funniest Home Videos (CC)	MLB Baseball: Toronto Blue Jays at Chicago White Sox. U.S. Cellular Field. (Live) (CC)	HomeTeam Pasco County, Florida (CC)	America's Funniest Home Videos (CC)									
TNT (40)	(11:30) Movie: The Bachelor * (1999) Chris O'Donnell.	Movie: Jerry Maguire ***½ (1996) An attack of conscience changes an L.A. sports agent's life. Tom Cruise. (CC)	Movie: The Replacements **½ (2000) Keanu Reeves.										
DSC (42)	Wild Weather: Wind (CC)	Wild Weather: Wet	Wild Weather: Heat	Perfect Disaster Firestorm	Perfect Disaster Mega Flood (CC)	Perfect Disaster Typhoon (CC)							
A&E (47)	Airline (CC)	Airline (CC)	Sell This House!	Sell This House!	Sell This House!	Sell This House!	Sell This House!	Sell This House!	Move House	Find & Design	Sell This House!	Sell This House!	
HIST (48)	Jesus of Nazareth	Jesus causes a crisis in belief. (Part 3 of 4) (CC)	Jesus of Nazareth	Jesus is crucified. (Part 4 of 4) (CC)	In the Footsteps of Jesus	The Ten Commandments							
NICK (55)	Nick-toons TV	Nick-toons TV	Nick-toons TV	Nick-toons TV	Nick-toons TV	Nick-toons TV	Nick-toons TV	Nick-toons TV	Told by Ginger	Drake & Josh	Ned's School		
DISN (56)	Movie: The Three Musketeers **½ (2004, Adventure)	Phil of Future	Zack & Cody	That's-Raven	Lizzie McGuire	Even Stevens	Phil of Future	Natural-Sadie	Life With Derek	Zack & Cody			
FAM (58)	Full House	Movie: The Beverly Hillsbillies ** (1993, Comedy) Jim Varney, Diedrich Bader.	Movie: Splash *** (1984, Comedy) Tom Hanks, Daryl Hannah. (CC)	Movie: Back to the Future **½ (1985) Michael J. Fox.									
HALL (60)	(11:00) Movie: Old Yeller *** (1957)	Movie: Big Red *** (1962) A boy and a champion Irish setter become fast friends.	Movie: Swiss Family Robinson ***½ (1960) A shipwrecked family turns a desert island into a paradise. John Mills. (CC)										

SUNDAY												APRIL 16	
	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30	
KLBY/ABC (4, 6)	America's Funniest Home Videos (CC)	Extreme Makeover: Home Edition (CC)	Desperate Housewives (CC)	What About Brian Pilot (N) (CC)	News (CC)	KAKE Sports	Lawyer on Line	Sports Machine					
KSNK/NBC (3, 8)	Dateline NBC (CC)	The West Wing Requiem (N) (CC)	Law & Order: Criminal Intent (N)	Crossing Jordan The Ice Man Cometh	News	24 Day 2: 12:00 - 1:00PM (CC)	Inside Edition						
KBSL/CBS (12, 11)	60 Minutes (CC)	Cold Case (N) (CC)	Movie: Robert Ludlum's Covert One: The Hades Factor (2006) Stephen Dorff.	News (CC)	News	Alias Passage (Part 2 of 2) (CC)							
K15CG (2)	Three Faiths, One God: Judaism	Nature Tall Blondes (CC) (DVS)	Masterpiece Theatre Carrie's War (N) (CC) (DVS)	Encore! With	Partners (CC)	Mystery! Inspector Lynley Mysteries Missing Joseph							
ESPN (28)	Baseball Tonight (Live) (CC)	MLB Baseball: San Francisco Giants at Los Angeles Dodgers. Dodger Stadium. (Live) (CC)	SportsCenter (Live) (CC)	Baseball Tonight									
USA (37)	(4:30) Movie: Gangs of New York *** (2002, Historical Drama) A man vows vengeance on the gangster who killed his father. Leonardo DiCaprio. (CC)	Law & Order: SVU	Law & Order: SVU										
TBS (38)	(3:15) Movie: Lord of the Rings	Movie: The Lord of the Rings: The Two Towers ***½ (2002, Fantasy) Members of a fellowship battle evil Sauron and his pawns. Elijah Wood. (CC)	Movie: The Running Man **½ (1987, Science Fiction)										
WGN (39)	Maximum Exposure (CC)	24 Day 3: 9:00PM - 10:00PM (CC)	24 Day 3: 10:00PM - 11:00PM (CC)	WGN News	Instant Replay	Sex and the City	Becker (CC)	Maximum Exposure (CC)					
TNT (40)	(4:30) Movie: The Replacements (CC)	Movie: Drumline *** (2002) Rivalry between two drummers threatens a college band. Nick Cannon.	Movie: Drumline *** (2002) Rivalry between two drummers threatens a college band. Nick Cannon.										
DSC (42)	Perfect Disaster Solar Storm (CC)	Perfect Disaster Tornado (CC)	Perfect Disaster Ice Storm (N)	I Shouldn't Be Alive Shipwrecked	Survivor-m	Survivor-m	Perfect Disaster Tornado (CC)						
A&E (47)	Flip This House (CC)	Mysteries of the Bible (CC)	God or the Girl (Series Premiere)	God or the Girl (N) (CC)	CSI: Miami Pro Per (CC)	Mysteries of the Bible (CC)							
HIST (48)	The Ten Commandments	10 Days That Changed America	Mega Disasters: The San Francisco Earthquake (N) (CC)	Mega Movers Fragile Giants (CC)	10 Days That Changed America								
NICK (55)	Just for Kicks (N)	Unfabu-lous	Zoey 101 News Special	Full House	Fresh Prince	Rose-anne	Funnest Mom	Mad Abt. You	Cosby Show	Fresh Prince	Fresh Prince		
DISN (56)	Hannah Montana	That's-Raven	Movie: The Three Musketeers **½ (2004, Adventure)	Phil of Future	Phil of Future	Life With Derek	Zack & Cody	That's-Raven	Hannah Montana	Emper-or New			
FAM (58)	(4:30) Movie: Back to the Future (1985)	Movie: Scooby-Doo (2002) Scooby and the gang hunt spooks at a haunted resort.	Movie: Scooby-Doo (2002) Scooby and the gang hunt spooks at a haunted resort.										
HALL (60)	Movie: Mighty Joe Young **½ (1998, Adventure) Charlize Theron, Bill Paxton.	Movie: White Fang (1991) A novice gold miner develops a unique bond with a wolf.	Movie: Old Yeller *** (1957) Tale of Texas teen and his stray yellow dog. (CC)										

MONDAY												APRIL 17	
	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30	
KLBY/ABC (4, 6)	News (CC)	Ent. Tonight	Wife Swap Allison/Hagerty (CC)	Supernanny Wujcik Family (N) (CC)	What About Brian Two in Twenty-Four	News	Nightline (CC)	Jimmy Kimmel Live (N) (CC)					
KSNK/NBC (3, 8)	News	Wheel of Fortune	Deal or No Deal (N) (CC)	Celebrity Cooking Showdown (N) (CC)	Medium S.O.S. (N) (CC)	News	The Tonight Show With Jay Leno (CC)	Late Night					
KBSL/CBS (12, 11)	News (CC)	Friends (CC)	King of Queens	How I Met	Two-Half Men	Old Christine	CSI: Miami Shattered (TV) (CC)	News (CC)	News With David Letterman	Late Late			
K15CG (2)	The NewsHour With Jim Lehrer (N)	Antiques Roadshow (N) (CC)	American Experience	The Armenian Genocide (N) (CC)	BBC World	My Family	Charlie Rose (N) (CC)						
ESPN (28)	MLB Baseball: Atlanta Braves at New York Mets. Shea Stadium.	Baseball Tonight (Live) (CC)	SportsCenter (Live) (CC)	Fast-break	Baseball Tonight								
USA (37)	Law & Order: Criminal Intent	Law & Order: SVU	WWE Monday Night Raw (Live) (CC)	Law & Order: Criminal Intent	Law & Order: SVU								
TBS (38)	Ray-mond	Ray-mond	Friends (CC)	Friends (CC)	Friends (CC)	Family Guy (CC)	Family Guy (CC)	Movie: Cradle 2 the Grave ** (2003, Action) (PA) Jet Li, DMX. (CC)					
WGN (39)	America's Funniest Home Videos (CC)	America's Funniest Home Videos (CC)	America's Funniest Home Videos (CC)	America's Funniest Home Videos (CC)	America's Funniest Home Videos (CC)	America's Funniest Home Videos (CC)	America's Funniest Home Videos (CC)	America's Funniest Home Videos (CC)					
TNT (40)	Law & Order Paradigm	Law & Order Sheltered	Law & Order Shangri-La	Law & Order Born Again (CC) (DVS)	Without a Trace Prodigy (CC)	The X-Files Per Manum (CC)							
DSC (42)	Great Biker Build-Off 2	Monster Garage Sour Kraut (CC)	American Hot Rod (N)	American Chopper Gillette Bike 1 (CC)	Monster Garage Sour Kraut (CC)								
A&E (47)	Cold Case Files (CC)	Flip This House Restaurant Special	God or the Girl (N) (CC)	God or the Girl (N) (CC)	Crossing Jordan Lost and Found (CC)	Flip This House Restaurant Special							
HIST (48)	Modern Marvels Rubber Rubber.	UFO Files Deep Sea UFOs (CC)	Digging for the Truth (N) (CC)	Deep Sea Detectives (N) (CC)	Battlefield Detectives (CC)	UFO Files Deep Sea UFOs (CC)							