

Steele County *Ag Alert*



Issue 15 – September 4th, 2014

Alicia Harstad, Steele County Extension Agent

Office: 701-524-2253

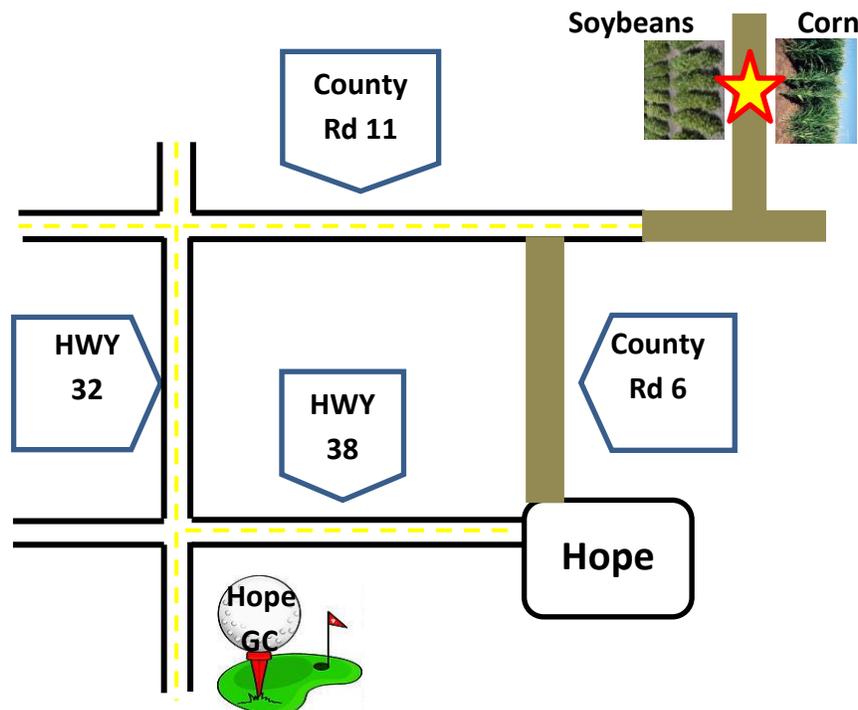
Cell: 701-331-1778

e-mail: alicia.harstad@ndsu.edu

September 11th will be the last weekly issue of the Ag Alert. Throughout the fall and winter additional Ag Alerts will be published and sent out to keep you up to date with upcoming informational meetings. Thank you for your support this growing season!

Steele County Corn and Soybean Plot Tour – September 18th

The annual Steele County Corn and Soybean plot tour is scheduled for **Thursday, September 18th at 4:00 pm at the plot**. The plot is located 7.5 miles north of Hope on County Road 6, then 4 miles east on County Road 11. The plot is on the north side of County Road 11. During the plot tour, Hans Kandel, NDSU Extension Agronomist for broadleaf crops, and Joel Ransom, NDSU Extension Agronomist for cereal crops, will speak about corn and soybean production issues for the year and the seed company representatives will speak about their corn and soybean varieties. There will be a \$150 Cabela's gift card and four \$25 cash prizes given out at the plot. A steak supper will follow the plot tour at the Hope Golf Course. The plot tour is sponsored by the Steele County Crop and Livestock Association, Steele County Extension Service, North Dakota Soybean Council and North Dakota Corn Council.



2014 Soybean Iron-Deficiency Chlorosis Scores Available

By: Hans Kandel, NDSU Extension Broadleaf Agronomist, and Ted Helms, NDSU Soybean Breeder

Iron-deficiency chlorosis (IDC) in soybean is a major problem in the eastern part of North Dakota and northwestern Minnesota. The IDC symptoms might be present during the two- to seven-trifoliolate-leaf stages. Plants tend to recover and start to turn green again during the flowering and pod-filling stages. However, IDC during the early vegetative stages can reduce yield potential severely. Some varieties are more tolerant to IDC than others. For high pH soils with known IDC problems, select an iron chlorosis-tolerant variety of suitable maturity that is high yielding. For soybean varieties tested by NDSU in 2014, the [Roundup Ready](#) IDC and [conventional / Liberty Link](#) IDC scores are now available at the NDSU variety trials result web site at:

<http://www.ag.ndsu.edu/varietytrials>.

Data from 2014 is based on field studies which were conducted at three locations, with known IDC problems, to measure the resistance of 267 Roundup Ready soybean varieties and 51 non-Roundup Ready, including Liberty Link, varieties to IDC. Each plot consisted of a



A tolerant and a susceptible IDC soybean variety growing side by side.

hill. Eight seeds were planted in a hill and the resulting growth was thinned soon after emergence to three plants. The experimental design was a randomized complete block with four replicates at each site. Separate trials were held for Roundup Ready and non-Roundup Ready varieties at each site. Visual ratings were made on a 1 to 5 scale, with 1 representing no chlorosis and 5 the most severe chlorosis. Ratings were taken at the 2- to 3- and 5- to 6-trifoliolate stages. Thus, each three-site average shown in the data tables is an average of 24 observations (three sites x four replicates x two ratings per plot). As far as we know, this is the most comprehensive evaluation available to farmers.

In the Roundup Ready trial, three check varieties were included as well as a susceptible reference. In the conventional variety trial, one “standard” variety (Sargent) was entered as well as four RR ready checks, to help in the interpretation of the results.

Significant differences in IDC scores were observed. Variety selection is the number one management strategy to reduce IDC expression in the field. Farmers are encouraged to pick the most tolerant, high yielding variety for their most severe IDC fields.

Soybean Cyst Nematode Field Days Scheduled for September

By: Sam Markell, NDSU Extension Broadleaf Crop Plant Pathologist and Ken Nichols, ND Soybean Council Research Director

The NDSU Extension Service and the North Dakota Soybean Council are working together on three soybean cyst nematode (SCN) field days this summer. The three field days will be on September 18th (near Hunter, ND), September 22nd (near Wyndmere, ND) and September 23rd (near Galesburg, ND). Each field days will start a morning program beginning at 10:00 am with lunch to follow. Each field location has research and demonstration plots with nematicide seed treatments and resistant varieties. Topics will include SCN sampling and management strategies and distribution of SCN-sample bags (with reimbursement for the test provided by

the North Dakota Soybean Council). More detailed information on field day times, locations and topics will be provided in the next Ag Alert.

2014 SCN Soil Testing Program

The NDSU Extension Service and the North Dakota Soybean Council are working together to coordinate an SCN soil testing reimbursement program again in 2014. The Steele County Extension office has SCN soil testing bags available to producers who want to sample their field for soybean cyst nematode. *The best time to sample is right before or after harvest.*

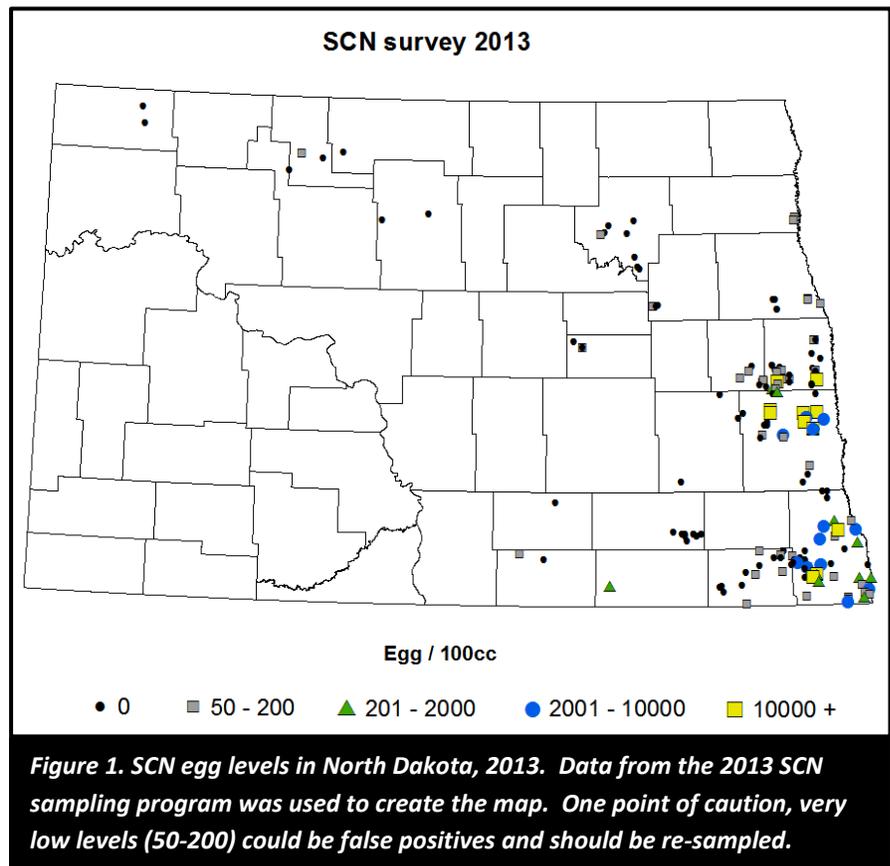
How the program works.

Briefly, the North Dakota Soybean Council is funding reimbursement for up to 2,000 SCN soil samples in 2014. Growers can pick up bags at the County Extension offices or attend one of the three SCN field days that are schedule for mid-September. Instructions are simple, select a site to sample, fill the bag with soil, and mail the sample bag and a one page instruction sheet to the laboratory.

You must use bags provided for reimbursement. Growers will receive results in the mail. NDSU will create a map of known SCN distribution, similar to 2014 (Figure 1).

More information.

For more information on SCN and the 2014 SCN sampling program please visit pages 13-15 of the September issue of the North Dakota Soybean Grower magazine. The September issue was just mailed to soybean producers or find the article online at www.ndsoygrowers.com.



NDSU

EXTENSION SERVICE
STEELE COUNTY

AG ALERT

NDSU Extension Service Steele County

P.O. Box 316

Finley, ND 58230

(701) 524-2253-Office

(701) 331-1778-Cell

"NDSU is an Equal Opportunity Institution"