# 2006 Canola Disease and Flea Beetle Survey - Progress Report 

${ }^{1}$ Department of Plant Pathology, North Dakota State University, Fargo
${ }^{2}$ Department of Entomology, North Dakota State University, Fargo
A canola disease and flea beetle field survey was conducted in North Dakota and Minnesota in 2006. Fields were surveyed a few days after swathing, if possible. A total of 204 and 7 fields were surveyed in North Dakota and Minnesota, respectively. A total of 50 plants ( 10 plants in 5 different sites per field) were evaluated for diseases in each field and a total of 20 sweeps with a net ( 4 sweeps in 5 different sites per field) were used to measure the number of flea beetles present in a field. Insects were not surveyed in Minnesota.

Results of the survey are summarized in Table 1. This was the third year in which blackleg was recorded as penetrating or superficial lesions. Penetrating lesions would be those that would likely cause economic yield reductions, whereas superficial lesions would cause no to minimal economic yield reductions. Penetrating blackleg lesions were found on $2 \%$ of the plants evaluated in North Dakota; blackleg was not found in Minnesota. These figures are similar to the 2005 survey, in which 4 and $0 \%$ of the plants evaluated had penetrating blackleg lesions in North Dakota and Minnesota, respectively. Sclerotinia stem rot was low, and found on 0.7 and $0 \%$ of the plants evaluated in North Dakota and Minnesota, respectively. Flea beetle populations were slightly higher than the 2006 survey with an average of 15 beetles per 4 sweeps ( 10 beetles per 4 sweeps in 2005).

Table 1. Results of the 2006 canola disease/flea beetle survey in North Dakota and Minnesota.

| County | \# <br> Fields | Flea Beetles | Blackleg |  | Sclerotinia/ White Mold | Aster <br> Yellows | Black Spot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Penetrating | Superficial |  |  |  |
|  |  | Ave. 5 sweep | \% plants | \% plants | \% plants | \% plants | \% pod area |
| North Dakota |  |  |  |  |  |  |  |
| Cavalier | 41 | 14.51 | 4.39 | 6.98 | 0.88 | 0.00 | 0.173 |
| Nelson | 4 | X | 0.00 | 0.00 | 2.50 | 4.50 | 0.645 |
| Ramsey | 10 | 4.94 | 12.90 | 7.70 | 1.90 | 0.30 | 1.826 |
| Towner | 29 | 22.29 | 5.35 | 7.24 | 0.39 | 0.15 | 0.041 |
| Walsh | 3 | 28.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| NE Ave. |  | 16.39 | 5.34 | 6.59 | 0.88 | 0.29 | 0.384 |
| NE Sub Total | 87 |  |  |  |  |  |  |
| Benson | 8 | X | 0.25 | 6.25 | 0.75 | 0.50 | 0.000 |
| Bottineau | 14 | 17.09 | 0.00 | 1.00 | 0.00 | 0.00 | 0.023 |
| McHenry | 7 | 8.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.003 |
| Pierce | 8 | 10.33 | 0.00 | 0.25 | 1.75 | 0.00 | 0.000 |
| Rolette | 9 | 3.78 | 0.22 | 0.22 | 3.33 | 0.67 | 0.027 |
| NC Ave. |  | 10.88 | 0.09 | 1.48 | 1.09 | 0.22 | 0.013 |
| NC Sub Total | 46 |  |  |  |  |  |  |
| Burke | 6 | 12.60 | 0.67 | 0.00 | 0.00 | 0.00 | 0.027 |
| Divide | 2 | 11.20 | 0.00 | 2.00 | 0.00 | 0.00 | 0.000 |
| Mountrail | 9 | 4.40 | 0.00 | 4.22 | 0.00 | 0.00 | 0.007 |
| Renville | 13 | 16.66 | 0.15 | 2.77 | 0.00 | 0.00 | 0.008 |
| Ward | 15 | 12.21 | 0.00 | 7.33 | 0.00 | 0.00 | 0.015 |
| NW Ave. |  | 11.94 | 0.18 | 4.18 | 0.00 | 0.00 | 0.012 |
| NW Sub Total | 45 |  |  |  |  |  |  |
| Sheridan | 4 | 21.25 | 0.00 | 0.00 | 0.50 | 1.50 | 0.590 |
| Wells | 4 | 74.15 | 0.00 | 0.00 | 2.00 | 0.50 | 0.250 |
| C Ave. |  | 50.64 | 0.00 | 0.00 | 1.25 | 1.00 | 0.420 |
| C Sub Total | 8 |  |  |  |  |  |  |
| McLean | 15 | 12.76 | 0.13 | 2.93 | 0.00 | 0.13 | 0.007 |
| WC Ave. |  | 12.76 | 0.13 | 2.93 | 0.00 | 0.13 | 0.007 |
| WC Sub Total | 15 |  |  |  |  |  |  |
| Hettinger | 3 | 4.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| SW Ave. |  | 4.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| SW Sub Total | 3 |  |  |  |  |  |  |
| ND Ave. |  | 14.76 | 2.34 | 4.28 | 0.67 | 0.22 | 0.172 |
| ND Total | 204 |  |  |  |  |  |  |
| Minnesota |  |  |  |  |  |  |  |
| Kittson | 2 | X | 0.00 | 0.00 | 0.00 | 0.00 | 0.020 |
| Roseau | 5 | X | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| MN Ave. |  | X | 0.00 | 0.00 | 0.00 | 0.00 | 0.003 |
| MN Total | 7 |  |  |  |  |  |  |
| Grand Total | 211 |  |  |  |  |  |  |

