

## Pea Leaf Weevil Survey

### Timing

The survey will be carried out during the last week of May and first week in June. This timing should coincide with maximum damage from pea leaf weevil. If there is no recent damage (uppermost leaves), subsequent surveys will be carried out earlier in the growing season.

### Fields and Numbers

Because Lethbridge appears to be the center of this insects activity –15 fields will be surveyed in Lethbridge County. Four (4) fields will be surveyed in each of the counties adjacent to Lethbridge County (Willow Creek, Warner, Taber, Vulcan and Cardston). Wheatland County will also be sampled, with 4 to 5 fields targeted in that area.

### Protocol

5 sample locations in the field the first 10 meters from the access point to the field and within 2 meters of the field margin. The other samples are to be 25 meters apart. At each location the number of crescent shaped feeding points are to be counted on each of the 10 plants selected. Insect collections are to be made if possible (see below). Record should be made of the farmers name, legal location (or GPS location), seeding date and crop stage (see attached data sheet).

### Insect Collections

If possible hand collections of insects will be made at the base of damaged plants. Fields near Lethbridge that have high levels of damage will have pitfall traps placed in order to collect a large number of adults for pinning. These pinned adults will be used for both scientific reference and extension purposes.