

CRANBERRY TIPWORM SUBMISSION FORM

(Cost of \$10 per sample of tips – see reverse side for payment details)

NOTE: For anyone spraying with Assail this year, there will be **no fee** for any single sample taken following an insecticide application, aimed at assessing the effectiveness of any sprays.

Instructions: One sample should be comprised of between 40 and 50 tips (if more than 50 are present, only the first 50 taken from the sample will be examined). Sample the tips at random over the area you are concerned about. Fix your eyes lazily upon a random point a few steps in front of you, and collect whatever tip your eyes happen to *first* land on (don't allow any room for bias). If you feel your eyes can't seem to avoid tips showing tipworm injury (pale and white in color), then you may need to employ a different sampling method. Closing your eyes and just reaching out and grabbing a tip is a more reliable method in terms of eliminating bias, but it may take you a little longer. Be creative--just make sure you're also being random.

Tips should be from 1 to 3 inches long (1" is usually enough but if they are a little longer they will last better during shipment which will in turn make examinations easier). Early-season samples should be comprised of **ONLY** brand new tips, from new uprights coming up from the runners, for example (for those are the most likely tipworm-infested tips until later in the season).

Deposit tips directly into the sample bag(s) as you gather them. A Zip-loc style bag works great. Place a moist paper towel in the bag so the tips won't dry out before they arrive. It probably goes without saying, but if sending more than one sample, and if you need to know which sample was which, make sure you label the bags and the individual forms (you need a separate form for each sample). You should also use a padded envelope, to prevent the sample(s) and any tipworm from being squished.

Your Name & Address: _____

Sample ID (whatever you want to call it): _____

Date Sample was Taken: _____

This sample represents (please check one):

- Random tips from a more or less ***even mix of representative areas*** of a bog.
- Random tips from **one small section** of a bog (corner, center, edge, etc.) *This might make sense if you are suspicious about a spray you applied not being uniform, for example.*
- Random tips in a way unlike either of the above choices. Please explain: _____

- Tips that I felt appeared to show signs of tipworm, and I just want to know for sure or to know how badly they are infested.
- Other (Please explain): _____

When, during the past 30 days, was the last time an insecticide was applied to the area sampled, if at all? _____ Product name & rate (optional): _____

How do you wish to be notified of the results (check one)?

- By phone (____-____) + paper mailing. By fax (____-____) + paper mailing.
- By phone (____-____) + email attachment (no paper mailing) (*please write your email in the space below unless you know I have it already*)
- By email only: _____@_____
- By mail *only* to the name and address above.
- By mail *only* to this address: _____

NOTE: Samples will be examined the same day they are received, if possible, or else by the end of the following day. The same applies to the notification of the results, if by phone, fax or email.

For *each* sample of cranberry tips submitted, you will receive a spreadsheet with the following information on it:

- Percent of tips with tipworm eggs.
- Percent of tips with clear-stage tipworm larvae (1st instar larvae).
- Percent of tips with 'white-stage' larvae (2nd instar larvae).
- Percent of tips with 'orange-stage' *i.e.* mature larvae (3rd instar larvae).
- Percent of tips with pupae (cocoons)
- Percent of tips with empty pupae.
- Percent of tips damaged by cranberry tipworm.
- Percent of tips with the terminal growing point destroyed.
- The actual number of eggs, larvae, cocoons and empty cocoons found on each tip in the sample, and in the case of larvae, whether they were alive or dead.
- A recommendation as to the severity of the findings, *i.e.* if action is warranted.

Send this completed form, along with \$10 per sample (one sample = 40 to 50 tips), to:

CHARLIE ARMSTRONG
UMAINE EXTENSION - PEST MANAGEMENT OFFICE
491 COLLEGE AVE
ORONO, ME 04473-1295

Make checks out to: UMCE (or Univ. of Maine Cooperative Extension)