

## Corn Creatures: The Start of a Natural History of Corn Fields.

Hawthorne Valley Farmscape Ecology
Program

conrad@hawthornevalleyfarm.org

Thanks to the Farm Hub, Roxbury Farm and The Farm at Miller's Crossing for tolerating our corn snooping.
Unless otherwise noted, photos by C. Vispo.

A White-marked Tussock Moth. Feeds mainly on trees, but there are scattered reports of it feeding on corn. Female moths are flightless.





Corn Ear Worm are most often seen at the tip of the cob, where they devour the first several rings of kernels. As we observed while scouting (right), mature Corn Ear Worms will attack and kill other caterpillars. This may reduce competitors on the corn cob, although they will consume caterpillars they have killed.





Fall Webworm, probably more a visitor than pest.

Photo by Kendrick Fowler



Cabbage Whites
were occasionally
seen, probably
because they are
drawn by the
mustards that are
common weeds in
and around corn
fields.





Moving on to beetles, this is a **Corn Flea Beetle.** We only saw a few of these in our corn explorations.





The Asian Multicolored Lady
Beetle comes with and without
various numbers of spots. The
most consistent character is the
pattern of white and black on
the body section behind the
head.









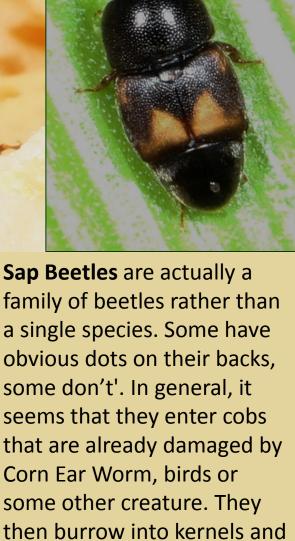
Pink Spotted Lady Beetle larvae were also common on the corn, where they may feed on aphids and other soft-bodied prey.











apparently do similar work.













Brown Marmorated Stink Bug is a recent introduction to the Northeast. We observed them with their syringe-like mouths sucking juices from ears of the grain corn.







... aka, the

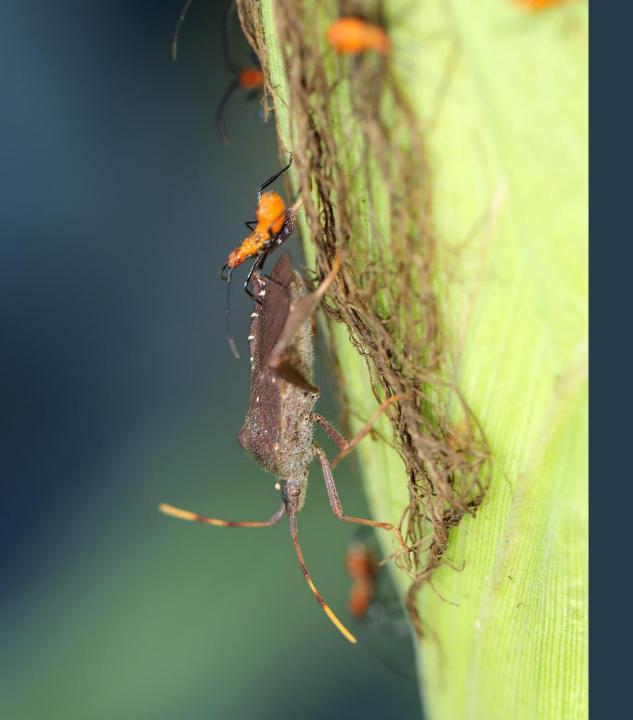
Spined Soldier

Bug; a predatory
stink bug which
sucks on other
insects, rather
than plant juices.



This planthopper (genus Anotia) was seen occasionally on the corn. Unlike the related leafhoppers, these do not seem to be a regular pest.





This **Leaf-footed Bug** was traipsing around a corn ear followed by orange attendants. Certain species in this group do show parental care, and these are probably young of the same species. These seem to be only minor economic pests in most cases.

Unless this **Boxelder Bug** mistook corn for maple, it was probably on its way somewhere else.





This photo serves triple duty: first, as indicated by the plant bug atop the eggs, there are other true bugs in the corn, but we haven't ID'd them yet; second, there are other bug eggs out there (those below <u>may</u> belong to the Brown Stink Bug); finally, note the wasp...





The previous photo was a segue to looking at wasps on corn. No guesses at this point regarding exactly which types of wasps are visiting these true bug eggs, but parasitism is probably the goal.





This appears to be a **European Paper Wasp.** It might be visiting the corn for a couple of reasons. Adults feed on flower nectar and other sweet liquids, and so corn sap leaking from a leaf wound might attract them. Also, they gather a variety of insects and spiders to feed their young, and so this individual could be hunting. European Paper Wasps were first noted in Boston around 1970 and have spread rapidly since then.





These are **Tiphiid wasps** of some sort, possibly even the genus *Tiphia* itself. They were quite common around the corn plants. Adults may have been feeding on sweet corn sap. This or a closely related species has been introduced as a biocontrol of Japanese Rose Beetles, and so these individuals may be parasitizing that species or another of the 'white grub' scarabid beetles.



Clockwise from above, bees of various kinds, including the **Common Eastern Bumble Bee** (a best guess ID), **Honey Bee** and the **Two-spotted Longhorn Bee**, visit corn flowers not for nectar but for pollen.







While these seem to be after-the-fact flies, some other flies more actively influence the growing corn.





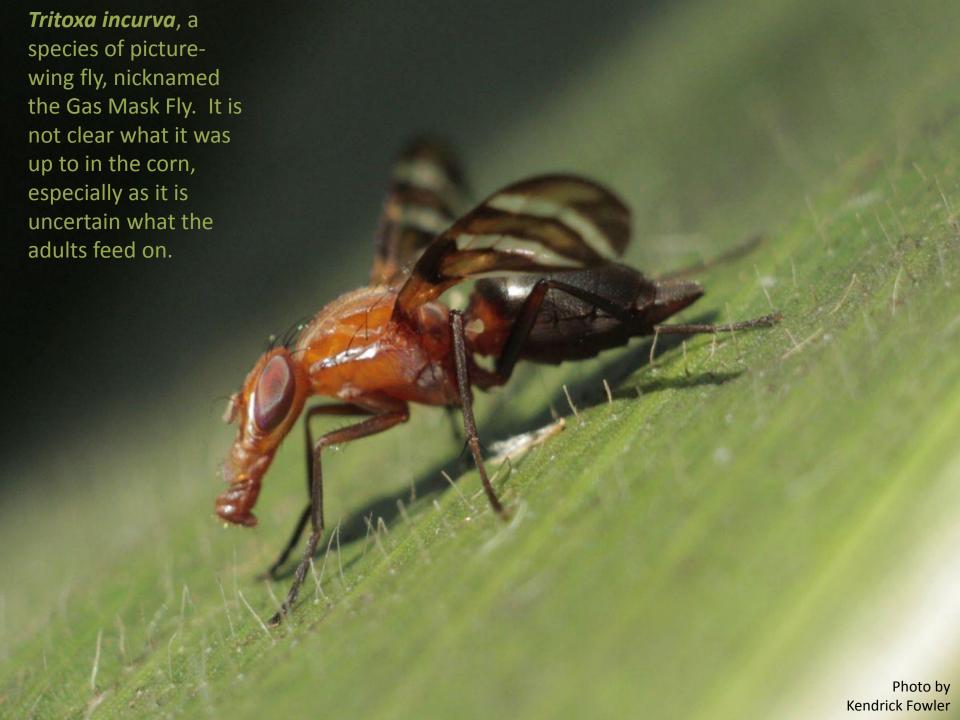


The **Corn Silk Fly** may be less welcome by the grower. Maggots feed on the developing silk and hamper successful pollination (and hence development) of kernels. We saw them frequently.











This **Horse Fly** was probably using the corn as a perch, awaiting passing creatures such as photographers.







A variety of spiders prowl the corn, including the tiny **Opulent Cobweb Spider** (left) and what appears to be a **Swift Crab Spider** (above).



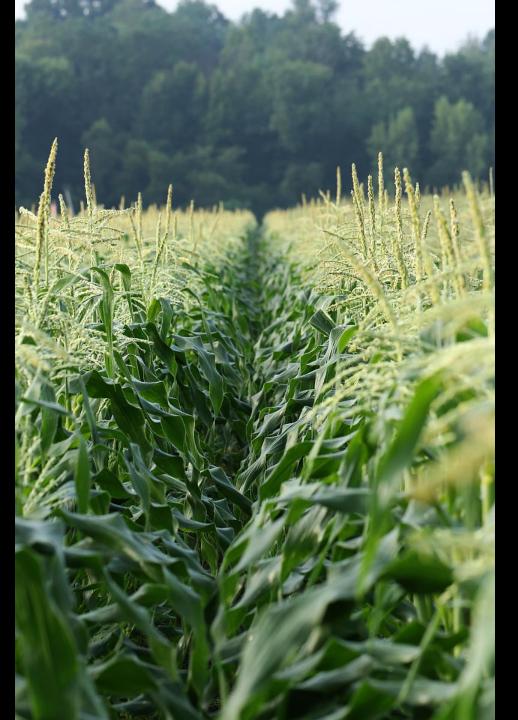
Of course, nothing stops one beneficial from preying on another!







While it is, of course, somewhat misleading to call corn fields 'forest', it is also somewhat misleading to assume they are sterile monocrops.



Although highly modified, they or their relatives have long been part of the North American ecological scene, and their fauna may, in part, reflect that heritage.