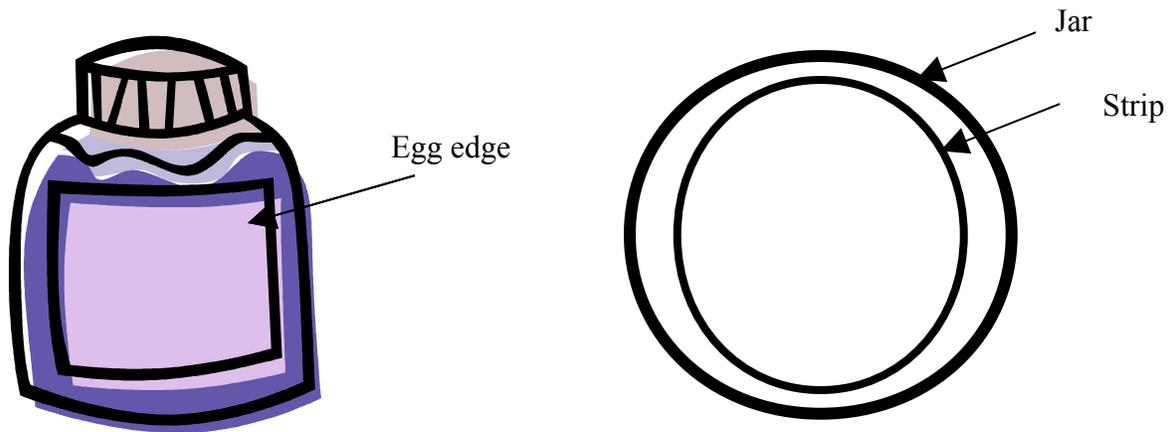


Bruce Spanworm Egg Hatch
Procedure used by Mary Burnham in 2003
Forest Biology Lab
103 South Main Street
Waterbury, VT 05671

Strips of foam sponge containing Bruce spanworm eggs were placed in 1 gallon jars and put in Mary Burnham's backyard at 11 Summer St, Montpelier, VT on March 4, 2003. Each jar had been washed with dishwashing liquid and rinsed thoroughly. The sponge strips were placed on the bottom of the jars with the egg side facing in. The narrow edge of the strips lay on the jar bottom, and the edge containing more eggs was at the top. See diagrams:



Both strips had come from sugarbushes in Derby, VT.

1. Danny Ducharme: Trap out 11/8/02; in 12/11/02
2. Roy Davis: Trap out 11/8/02; in 12/11/02

After counting eggs on the strips, they were replaced in their manila envelopes and refrigerated in Waterbury until sometime in January. At that time, they came home with Mary Burnham and remained in her unheated back hall until March 4. The area under her backyard picnic table gets little direct light. The jars were placed there so that they would not overheat. They were on bare ground; there was no snow under the picnic table. The jars were checked periodically for hatching larvae. Larvae were counted and released. As of March 4, nearly all eggs were orange.

Owner	Date	# Hatched Larvae Removed	Comments
Davis	3/21/03	0	Eggs still orange
Ducharme	3/21/03	0	Some eggs gray/black
Davis	3/28/03*	3	Some eggs black; 4 orange eggs on jar bottom removed
Ducharme	3/28/03*	136	More eggs black; 1 orange egg on bottom removed
Ducharme	4/1/03*	135	
Davis	4/1/03*	15	
Ducharme	4/13/03*	241	
Davis	4/13/03*	139	
Davis	4/20/03	35	All larvae not counted. Time to go.
Davis	4/22/03*	122	
Ducharme	4/22/03*	66	
Davis	7/8/03	0	<6 unhatched eggs. No diptera or hymenoptera.
Ducharme	7/8/03	5	Guesstimate. Any remaining larvae are dried up and hard to distinguish from the tiny diptera or hymenoptera on the foam and in the bottom of the jar. Collected. Some unhatched eggs. ~50

* Foam removed and larvae picked off. Jar wiped clean with Windex inside and out. Allowed to air and foam replaced.

Davis total = 3 + 15 + 139 + 35 + 122 = 314

Ducharme total = 136 + 135 + 241 + 66 + 5 = 583