

## SADDLED PROMINENT SEQUENTIAL EGG SAMPLING

**Objective:** To predict high or low potential for defoliation in saddled prominent infested hardwood stands.

**Time of Year:** About 2 weeks after peak moth emergence; usually late June.

**Equipment Needed:** Pole Pruner

**Data Sheets Needed:** Sequential Sampling Tally Form

### Procedure:

1. Choose sample trees at random, 100-200' apart.
2. Remove a 24" branch tip from as high as can be reached with the pole pruner.
3. Count all saddled prominent eggs and larvae on 10 leaf clusters per branch (a leaf cluster is all leaves that developed from a single bud) and record on tally form.
  - a. Viable eggs: light apple green or reddish brown.
  - b. Parasitized eggs: milky white, black, or white splotched with black or grey.
  - c. Larvae: "antlers" or mahogany color and raised tip on rear.
4. Calculate the cumulative total of viable eggs and larvae.
5. Take samples from at least 9 trees. Continue sampling until the cumulative total is less than or equal to the number in column 6 or is the same or greater than the number in column 7, up to 30 trees.

### Interpreting Results:

<u>If the cumulative total of viable eggs &amp; larvae is:</u>	<u>The potential for defoliation is:</u>
Less than or equal to the number in column 6	Low
Between the numbers in columns 6 and 7	Uncertain
Greater than or equal to the number in column 7	High

APPLIED FORESTRY RESEARCH INSTITUTE  
 State University College of Forestry  
 Syracuse, New York 13210

1972 SADDLED PROMINENT  
 SEQUENTIAL SAMPLING TALLY FORM

(1)	(2)	(3)	(4)	(5)	(6)	(7)
No. of 10-leaf-cluster sample units	Parasitized eggs	Viable eggs	Saddled Prominent larvae	Cumulative total viable eggs & larvae (Col. 3 & 4)	Upper boundary for low defol. potential	Lower boundary for high defol. potential
1			-	1	Minimum of 9 samples	Minimum of 9 samples
2						
3						
4						
5						
6						
7						
8						
9						
10					0	40
11					2	43
12					5	46
13					8	49
14					11	52
15					14	55
16					17	57
17					20	60
18					23	63
19					25	66
20					28	69
21					31	72
22					34	75
23					37	78
24					40	81
25					43	83
26					46	86
27					49	89
28					51	92
29					54	95
30					57	98
					60	101