VERMONT PEAR THRIPS PROGRAM
FOLIAGE DAMAGE ASSESSMENT
June 1991

The following procedure for rating foliage damage due to pear thrips will be used for rating trees in the statewide soil survey plots. NAMP plots will use the same rating system, but by a separate procedure. Attached is a list of the plots in each area that will need to be rated. All ratings should be completed between June 17-28, 1991.

Number of Sample Trees to Assess:

Statewide Soil Survey plots had soil samples taken at each of five trees. These same five trees should be rated.

Foliage Damage Assessment Protocol:

The following damage rating system was established in 1989 and should continue to be used.

NONE:	No detectable pear thrips damage.
LIGHT:	Mostly leaves that are mottled, slightly stunted or puckered. Leaf area reduction 1 to 30%.
MODERATE:	Mostly leaves that are stunted, deformed and browned at the leaf margins. Some tattering of leaves. Leaf area reduction 31 to 60%.
HEAVY:	Some bud kill and severely tattered and stunted leaves. Leaf area reduction 61 to 100%.

There is one addition though. Along with the preceding rating system, a crown transparency and dieback rating (NAMP system) should also be given.

NAMP Transparency & Dieback Class Codes and Ranges:

Class Code	Class Range
00	0
05	1 - 5
10	6 - 15
20	16 - 25
30	26 - 35
40	36 - 45
50	46 - 55
60	56 - 65
70	66 - 75
80	76 - 85
90	86 - 95
99	96 -100

The addition of the NAMP rating is an attempt to standardize systems used by various people looking at thrips damage throughout the northeast.

At each sample tree, a separate rating will be made for the sample tree, regeneration, and seedlings. Binoculars should be used to rate the sample tree, averaging upper and lower canopy damage to obtain one rating for the tree. Regeneration, defined as seedlings over 6" high and saplings up to 4.9" dbh, should be rated averaging those seen in a 2 meter radius plot, taken 4 meters from the sample tree in any direction. If no regeneration is present, record as no regeneration in the comments section. Seedlings, defined as all seedlings under 6" in height, should be rated averaging those seen in a 2 meter radius plot, 4 meters from the sample tree. Again if no seedlings under 6" are present, record as such in the comments section. In some cases, seedlings may have been totally destroyed, leaving only the stems. Please look carefully for indications of this.

All observations should be recorded on the data sheet provided. If great differences exist between the upper and lower canopy of a sample tree, please note this in the comments section. Also note if the foliage is damaged from causes other than thrips, or if the sample tree has serious dieback. If defoliation has resulted in refoliation, please note the percent of refoliation in the comments section.

A stand rating should be made, averaging sample trees and other trees in the vicinity of the plot. Record this in the space provided.

PEAR THRIPS STATEWIDE SOIL SURVEY PLOTS
FOLIAGE DAMAGE ASSISSMENT DATA SHEET

Sample site (Town & Co.):

Landowner & site name:

Assessors: Date of Assessment:

DAMAGE RATING					NAMP TRANSP	NAMP DIEBK
TREE 1:	NONE	LIGHT	MODERATE	HEAVY		
REGENERATION:	NONE	LIGHT	MODERATE	HEAVY		
SEEDLINGS:	NONE	LIGHT	MODERATE	HEAVY		
COMMENTS:						
TREE 2:	NONE	LIGHT	MODERATE	HEAVY		
REGENERATION:	NONE	LIGHT	MODERATE	HEAVY		
SEEDLINGS:	NONE	LIGHT	MODERATE	HEAVY		
COMMENTS:						
TREE 3:	NONE	LIGHT	MODERATE	HEAVY		
REGENERATION:	NONE	LIGHT	MODERATE	HEAVY		
SEEDLINGS:	NONE	LIGHT	MODERATE	HEAVY		
COMMENTS:						
TREE 4:	NONE	LIGHT	MODERATE	HEAVY		
REGENERATION:	NONE	LIGHT	MODERATE	HEAVY		
SEEDLINGS:	NONE	LIGHT	MODERATE	HEAVY		
COMMENTS:						
TREE 5:	NONE	LIGHT	MODERATE	HEAVY		
REGENERATION:	NONE	LIGHT	MODERATE	HEAVY		
SEEDLINGS:	NONE	LIGHT	MODERATE	HEAVY		
COMMENTS:						
STAND RATING:	NONE	LIGHT	MODERATE	HEAVY		