

Section V: Pests of Wine Grapes & Small Fruits

2012 WASHINGTON STATE DEPARTMENT OF AGRICULTURE (WSDA) EXOTIC PEST OF GRAPES SURVEY (EPOGS)

M.W. Klaus
WSDA Plant Protection Division
21 North First Ave., Yakima, WA 98902
mklaus@agr.wa.gov

In 2012, WSDA placed and monitored traps targeting the following four exotic species of moths:

European Grape Vine Moth (EGVM) *Lobesia botrana*; European Grape Berry Moth (EGBM) *Eupoecilia ambiguella*; Grape Tortrix (*Argyrotaenia ljunghana*); Grape Leafroller Tortrix (*Sparganothis pilleriana*). The survey extended from June 24 through September 30, 2012 in sixteen Washington State counties using large plastic delta traps each baited with a species specific pheromone lure. Traps were checked every two to four weeks and changed at least every four weeks. All traps with suspect moths were sent to the WSDA Olympia Entomology Lab for identification.

Trap deployment focused on commercial wine and Concord grape vineyards, non-commercial, residential grape vines in populated areas, abandoned vineyards, and feral, roadside grape vines.

Host plants included grape, apple, crabapple, and other fruit trees. These types of host were targeted because they represented the greatest risk of pest introduction and reproduction.

Table 1.A – Counties Trapped for EPOGS in 2012			
Adams	Franklin	Klickitat	Spokane
Benton	Grant	Okanogan	Walla Walla
Chelan	King	Skagit	Whatcom
Douglas	Kittitas	Snohomish	Yakima

A total of 2,515 trap sites were placed and monitored in 2012. None of the four exotic species targeted in the survey were detected. Many interesting species of non-target moths were collected during the survey. In a separate survey of apples in Walla Walla and Benton Counties, WSDA detected adult Tufted Apple Bud Moth (TABM), *Platynota idaeusalis*. This species is also known to attack grapes.

Table 1.B – Trap Sites by County and Survey Type					
EPOGS TARGET SPECIES					
COUNTY	Grape Tortrix	EGVM	EGBM	Grape Leafroller Tortrix	Total
ADAMS	1	4	1	1	7
BENTON	85	140	85	84	394
CHELAN	37	45	37	35	154
DOUGLAS	6	11	6	7	30
FRANKLIN	30	86	30	30	176
GRANT	76	171	75	65	387
KITTITAS	3	7	3	3	16
Klickitat	17	17	17	17	68
OKANOGAN	13	7	14	6	40
SKAGIT	0	71	4	0	75
SKAMANIA	3	3	3	3	12
SPOKANE	0	16	17	0	33
SNOHOMISH	0	51	3	0	54
WALLA WALLA	22	80	22	22	146
WHATCOM	0	60	13	0	73
YAKIMA	206	236	208	200	839
TOTALS	499	1005	538	473	2,515