

## EXOTIC SNAIL AND SLUG SURVEY IN OREGON, PRELIMINARY RESULTS 2003-2005

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Over the past ten years, over 20 species of exotic snails and slugs have been intercepted on foreign cargo at the U.S. port of entry in Oregon. Follow-up domestic survey is intended to monitor high-risk sites for certain agriculturally-significant species. Survey sites include areas within and adjacent to maritime ports, shipping container yards, and importers of tile, granite, and marble from high-risk countries of origin. Survey methods were mainly visual observations and hand-collection; baited pitfall trapping was also attempted on a trial basis. Standardization of survey methods was attempted through identifying key habitat types, environmental conditions (precipitation, temperature) and allocating a minimum sampling time of 1.0 survey-hour/site. Field samples were also submitted by PPQ officers, Oregon Dept. of Agriculture horticulturalists and entomologists, OSU extension agents, and private homeowners.

From October 2003 though December 2004, nineteen sites, from eight Oregon counties were surveyed (Table 1). Specimens collected and identified include both native species and naturalized exotic species. Many collections included well-established exotic slugs such as *Derocerus reticulatum*, *Limax maximus*, and the *Arion rufus* species complex. The established exotic snail *Cryptomphalus asperses* (*Helix aspersa*), while sporadically reported in western Oregon, was intercepted from a residential site in eastern Oregon (Umatilla County). One significant report confirms the established status of the japanese mystery snail, *Cipangopaludina japonica* at a lake in Polk County (Table 2).

Table 1: Oregon counties and number of sites surveyed or sampled

Multnomah	7
Washington	3
Marion	3
Clackamas	2
Benton	1
Columbia	1
Polk	1
Umatilla	1

Table 2: List of species collected and submitted as of 12/30/04.

<b>Genus</b>	<b>Species</b>	<b>common name</b>	<b>Family</b>	<b>collected</b>
<i>Ancotrema</i>	<i>sportella</i>	beaded lancetooth	Haplotrematidae	5
<i>Ariolimax</i>	<i>columbianus</i>	Pacific banana slug	Arionidae	2
<i>Arion</i>	sp. *	arion slug	Arionidae	38
<i>Arion</i>	<i>rufus</i> **	chocolate arion	Arionidae	3
<i>Cipangopaludina</i>	<i>japonica</i>	Japanese mystery snail	Vivipariidae	14+
<i>Cryptomphalus</i>	<i>aspersus</i>	brown garden snail	Helicidae	1
<i>Deroceras</i>	<i>reticulatum</i>	grey garden slug	Agriolimacidae	67
<i>Limax</i>	<i>maximus</i>	leopard slug	Limacidae	3
<i>Monadenia</i>	<i>fidelis</i>	banded wood snail	Bradybaenidae	1
<i>Prophysaon</i>	sp. *	taildropper	Arionidae	1
<i>Succinea</i>	sp. *	ambersnails	Succineidae	4
unknown snail	sp. 1		Hygromiidae	2
unknown slug	sp. 2		Arionidae	16
<i>Vespericola</i>	<i>columbianus</i> *	northwest hesperian	Polygyridae	2

\* tentative identification, awaiting confirmation

\*\* species complex