






Maine Department of Agriculture, Conservation and Forestry
 2021 Cooperative Agricultural Pest Survey (CAPS) Program

Exotic Mollusk Pest Survey

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Species	Hosts/ habitat	Signs	Status in the U.S.	Detection method
BLACK SLUGS (ARION ARVC COMPLEX) <i>Arion ater</i> , <i>Arion rufus</i> , <i>Arion vulgaris</i>	 <p>Flowers and crops, especially seedlings; wild vegetation, notably skunk cabbage; lichen; fungi; prefer cool, moist habitats at low elevations; often found at parks, trails, and campgrounds</p>	<p>Large black, brown, red, orange, or yellow slugs (> 3"); small black slugs without pointed tails; feeding damage accompanied by slime trails; egg masses</p>	<p><i>Arion ater</i> reported from Vinalhaven, ME (2018); widespread on the West Coast</p>	<p>Community outreach; visual surveys in the spring and fall; supplemental trapping (beer-baited coverboards serviced every 2 weeks for 12 weeks)</p>
HYGROMIID SNAILS (CERNUELLA SPP.) <i>Cernuella virgata</i> , <i>Cernuella</i> spp.	 <p>Wheat, barley, peas, oil seeds, ornamental plants, weeds; known to climb trees, grass stems, or other structures during the day</p>	 <p>Shell: up to 25mm (approx. 1") in diameter</p>	<p>Frequently intercepted at ports of entry; detected in NC and WA</p>	<p>Visual surveys in the spring and fall; supplemental trapping (beer-baited coverboards serviced every 2 weeks for 12 weeks)</p>
HYGROMIID SNAILS (MONACHA SPP.) <i>M. cantiana</i> , <i>M. cartusiana</i> , <i>M. syriaca</i>	 <p>Fodder crops; cauliflower, lettuce, and other vegetables; prefer open habitats such as hedges, roadsides, railways, quarries, and field margins</p>	 <p>Shell: up to 20mm (<1") in diameter</p>	<p>Intercepted at ports of entry; detected in MI, IL, DE, and NC</p>	<p>Visual surveys in the spring and fall; supplemental trapping (beer-baited coverboards serviced every 2 weeks for 12 weeks)</p>





<p>COCHLICELLID SNAILS <i>Cochlicella acuta</i>, <i>Cochlicella barbara</i></p>	 <p>(8)</p>	<p>Legumes, wheat, alfalfa, clover, canola, and other crops; prefer dunes and coastal grassland; often found in gardens</p>	 <p>(9)</p> <p>Shell: up to 30 x 8 mm</p>	<p>Intercepted at ports of entry; detected in CA and SC</p>	<p>Visual surveys in the spring and fall; supplemental trapping (beer-baited coverboards serviced every 2 weeks for 12 weeks)</p>
<p>CHINESE SLUG <i>Meghimatium pictum</i></p>	 <p>(10)</p>	<p>Grape; various crops and garden plants; found in vineyards, forests, and outside populated areas</p>	 <p>(11)</p> <p>eggs</p>	<p>Intercepted at ports of entry</p>	<p>Visual surveys in the spring and fall; supplemental trapping (beer-baited coverboards serviced every 2 weeks for 12 weeks)</p>

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1. *Arion rufus*, black morph: P. Marquez. Printed in D.G. Robinson, Arionidae (2017).
2. *Arion rufus*, orange morph: I. Richling. Printed in D.G. Robinson, Arionidae (2017).
3. *Arion vulgaris*: I. Richling. Printed in D.G. Robinson, Arionidae (2017).
- 4.: P. Marquez. Printed in Molet, T. 2014. CPHST Pest Datasheet for *Cernuella* spp. USDA-APHIS-PPQ- CPHST
5. Multiple *C. virgata* on tree trunk: L. Poggiani, HU www.lavalledelmetauro.it. Printed in Molet, T. 2014. CPHST Pest Datasheet for *Cernuella* spp. USDA-APHIS-PPQ- CPHST
6. *Monacha cartusiana*: Fritz Geller-Grimm, wikipedia.org. Printed in Molet, T. 2014. CPHST Pest Datasheet for *Monacha* spp. USDA-APHIS-PPQ- CPHST.
7. *Monacha cartusiana*: © L.Kolouch, www.biolib.cz. Printed in *Monacha* spp., Terrestrial Mollusc Tool. Available from www.idtools.org
8. Cochlicellid snail: <https://pest.ceris.purdue.edu/pest.php?code=IGDGDEA>
9. *Cochlicella acuta*: © Dr. Roy Anderson, Molluscireland. Printed in *Cochlicella* spp., Terrestrial Mollusc Tool. Available from www.idtools.org
10. *Meghimatium pictum*: Paulo Lenhard, Project AM, <http://terrrslugs.lifedesks.org/pages/31164>. Printed in Molet, T. 2014. CPHST Pest Datasheet for *Meghimatium pictum*. USDA-APHIS-PPQ- CPHST.
11. Multiple *M. pictum*: Gomes, S., Picanço, J., Colley, E., Agudo-padrón, A., Nakano, E., & Thomé, J. (2011). A newly introduced and invasive land slug in Brazil: *Meghimatium pictum* (Gastropoda, Philomycidae) from China. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 161, 87-95.