A Guide to Identification of Egg Masses of Stillwater-Breeding Amphibians in lowland Clark, Cowlitz and Wahkiakum Counties, Washington State

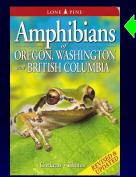
MARC HAYES WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

Regional Amphibian Guides

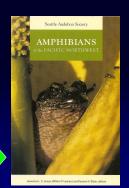
Corkran & Thoms. 2006.

Amphibians of Oregon, Washington

and British Columbia. Lone Pine Press.



Jones, Leonard & Olson (editors). 2005. Amphibians of the PNW. Seattle Audubon Society.





Northwestern Salamander Ambystoma gracile

- early embryo color smoky gray or brown
- early embryos capsules lack algae



- orange- to grapefruit-sized
- firm jelly; lasts 7-10 months
- capsules indistinct
- brace present; usually stick
- in water 5-6°C (41-43°F)







- ± round; firm jelly; orangeto grapefruit-sized • brace present; capsules
- indistinct at a distance

Ambystoma gracile

- algae in late development capsules: has green look
- embryos darken during





- Egg Mass:
- \pm round
- softball-sized
- embryonic capsules prominent: grape cluster appearance • soft jelly: breaks down
- fairly rapidly: ~2 months laid on brace; often upright vegetation





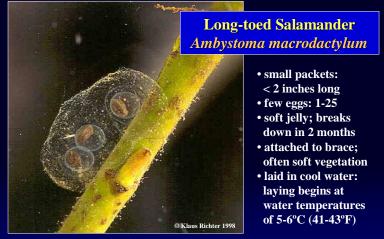
- moderate egg numbers: several hundred to just over 1,000
- contains relatively large eggs: usually about $\frac{1}{8}$ inch in diameter
- often submerged, laying begins at 6°C (43°F) water temperatures



Northern **Red-legged** Frog egg masses can be hard to seen even when viewed at relatively short distances

Northern Red-legged Frog Rana aurora





 \bullet eggs moderate sized: between ${}^{1\!/}_{16}$ and ${}^{1\!/}_{8}$ inch in diameter • eggs distinctly bicolored (brown above; white below) when young developing embryos lose bicoloration becoming light brown



Pacific Treefrog Pseudacris (=Hyla) regilla • small packets: < 2.5 inches long • few eggs: 10-80 soft jelly; breaks down in 2 months attached to brace; often soft vegetation • laid in cool water: laying begins at water temperatures of 6-8°C (43-46°F)

- eggs tiny: ≤ ¹/₁₆ inch in diameter
 eggs indistinctly bicolored (gray above; dingy yellow below)
- developing embryos lose bicoloration becoming light brown

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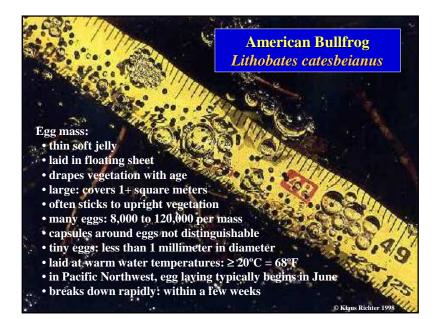


 dark above
 mediumsized; ¹/₁₆
 to ¹/₈ inch

Western Toad Bufo boreas

- long, narrow strings; roughly pencil width
 soft jelly; breaks down quickly: ~1 month
 jelly catches debris
 - unattached
 shallow water;
 - < 8 inches deep • relatively warm
 - ~15°C (59 F) • many eggs: a
 - few thousand to over 20,000











regon Spotted Frog Rana pretiosa

moderate egg numbers: several hundred to over 1,000
moderately large eggs: just under ¹/₈ inch in diameter
masses usually laid in shallow water (< 6 inches deep)

embryonic capsules prominent: grape cluster appearance
moderately soft jelly; breaks down ~2 months
no brace

• ± round • softball-sized

- masses often in
- groups
- laying begins at 8°C (46°F)

