

POCKET GUIDE TO THE AMPHIBIANS

WYOMING

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A Special Acknowledgement to Adam LaDell Guide Design by Kristen Nielsen

KEY TOAD FEATURES



-Cranial Crest -Warts

Dorsal Stripe

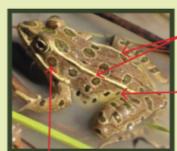


Throat is often dark on breeding males



Nuptial Pads (dark calluses on thumb and first finger of breeding males)

KEY FROG FEATURES



Dorsolateral Folds

-Groin



Tympanum (ear drum)



Thumb is swollen on breeding males

TIGER SALAMANDER Ambystoma mavortium

EGGS



PAEDOMORPH (AQUATIC ADULT)



LARVA



ADULT (TERRESTRIAL)



berneth

TIGER SALAMANDER Ambystoma mavortium



Identification (terrestrial adult)

- ·Only salamander in Wyoming
- Dorsal color: black or dark green with variable mottling of yellow or olive blotches, stripes, or spots
- ·Smooth skin, long tail
- ·Total length: ~5.5 to ~8 inches

Paedomorph (aquatic adult)

- Alternate adult stage resembles very large larvae (gills present)
- Dark green or olive, often with small black spots or blotches
- ·Total length: ~8 to 12 inches

y QJDM

Eggs & Larvae

- •Eggs attached to submerged vegetation singly or in long cluster of 2-120 eggs.
- ·Larvae are olive green with small black blotches, wide heads, and long, feathery gills



Breeding Habitat

 Permanent or temporary, natural or man-made ponds, pools, stock tanks, and backwater or slow moving areas in creeks

PLAINS SPADEFOOT

Spea bombifrons

EGGS



METAMORPH



TADPOLE



JUVENILE



ADULT



PLAINS SPADEFOOT Spea bombifrons



Identification

- Dorsal color: light gray or brown with dark mottling, often with small orange warts
- ·Relatively smooth skin
- ·Ventral color: white
- -Size: ~1/2 inch (metamorph) to ~2.5 inches (adult)
- ·Vertical Pupils
- ·Bony lump (boss) between the eyes

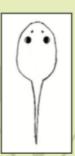




Eggs & Tadpoles

- ·Eggs in small mass attached to submerged vegetation
- ·Tadpoles often pale brown to greenish
- Tadpole eyes medial, anal vent on midline





Breeding Habitat

 After heavy rains in temporary puddles, ditches, pools, and ponds in prairies, sagebrush steppe, sandhill, and desert scrub

GREAT BASIN SPADEFOOT Spea intermontana

EGGS



TADPOLE



ADULT



Lauren Livo & Stev

GREAT BASIN SPADEFOOT

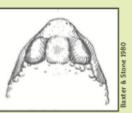
Spea intermontana

Identification

- Dorsal color: light gray, brown, or olive with small dark spots and small warts (often orange) present
- ·Relatively smooth skin
- ·Ventral color: cream or white
- ·Size: ~1/2 inch (metamorph) to ~2 inches (adult)
- ·Vertical pupils
- ·Glandular lump (boss) between the eyes

Eggs & Tadpoles

- ·Eggs in small mass attached to submerged vegetation
- ·Tadpole eyes are medial, anal vent on midline
- ·Tadpoles often pale brown to greenish in color







Breeding Habitat

 After heavy rains in temporary puddles, ditches, pools and ponds in prairies, sagebrush steppe, sandhill, and desert scrub

WYOMING TOAD Anaxyrus baxteri

EGGS



METAMORPH



JUVENILE



TADPOLE



ADULT



WYOMING TOAD Anaxyrus baxteri



Identification

- Endangered species, unlikely to be observed outside the Laramie plains
- ·Dorsal color: tan to dark brown with dark blotches surrounding warts
- ·Pale dorsal stripe
- ·Ventral color: cream or white with black spots
- ·Size: ~1/2 inch (metamorph) to
- ~2.5 inches (adult)
- Cranial crests form parallel ridges; may be fused to look like one wide ridge with a groove in the middle





Eggs & Tadpoles

- ·Eggs in long strings
- ·Uniformly dark black tadpoles with anal vent on midline
- ·Tadpole eyes are medial





Breeding Habitat

'Shallow water in temporary or permanent ponds, wetlands, oxbows, and flood-plains in the Laramie basin

WESTERN (BOREAL) TOAD Anaxyrus boreas

EGGS



METAMORPH



TADPOLE



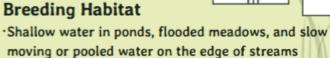
ADULT



JUVENILE







WESTERN (BOREAL) TOAD Anaxyrus boreas



Identification

- ·Dorsal color: light olive to dark brown with dark raised warts
- ·White dorsal stripe
- ·Ventral color: white with black spots
- ·Size: ~3/4 inch (metamorph) to ~4.5 inches (adult)
- ·No cranial crest

Eggs & Tadpoles

·Tadpole eyes are medial

·Egg strings with lots of jelly;

·Uniformly dark black tadpoles with anal vent on midline

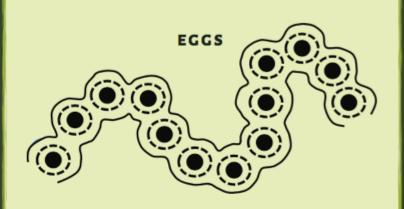
usually wrapped around vegetation







GREAT PLAINS TOAD Anaxyrus cognatus



ADULT



GREAT PLAINS TOAD Anaxyrus cognatus



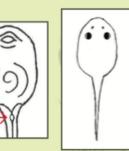
Identification

- Dorsal color: tan to brown or olive with oftentimes symmetrical large greenish-black blotches
- surrounded by pale rings
- Dorsum covered with small warts
- Ventral color: cream or white with no spots
- ·Size: ~3/4 inch (metamorph) to ~5 inches (adult)
- V-shaped cranial crests that join to form a lump (boss) above the snout (may be absent or weak in juveniles)



Eggs & Tadpoles

- ·Eggs in strings; outer jelly of string is scalloped, making eggs look like beads on a string (see back)
- ·Uniformly dark black tadpoles with anal vent on midline
- ·Tadpole eyes are medial



Breeding Habitat

·Lower elevation temporary pools, ponds, and potholes, but occasionally permanent ponds and backwater or pooled areas of streams

ROCKY MOUNTAIN (WOODHOUSE'S) TOAD Anaxyrus woodhousii woodhousii

EGGS





TADPOLE





ADULT

1UVENILE





ROCKY MOUNTAIN (WOODHOUSE'S) TOAD Anaxyrus woodhousii woodhousii



Identification

- ·Dorsal color: mottled tan or gray to dark brown or olive with irregular dark spots and many warts
- ·White dorsal stripe
- ·Ventral color: cream, occasionally with black spots
- ·Size: ~3/4 inch (metamorph) to ~4.5 inches (adult)
- ·L-shaped cranial crests (may be absent or weak in juveniles)





Eggs & Tadpoles

- ·Eggs in strings up to 10 feet long
- ·Dark tadpoles with gold flecking
- ·Tadpole eyes medial; anal vent on midline





Breeding Habitat

·Lower elevation ponds, reservoirs, lakes and backwater areas of streams and rivers

BOREAL CHORUS FROG

Pseudacris maculata EGGS **TADPOLE** Estes-Zumpf **1UVENILE** METAMORPH **ADULT** ADULT

BOREAL CHORUS FROG

Pseudacris maculata



Identification

- ·Smallest frog in Wyoming
- ·Size: 1/2 inch (metamorph) to ~1.5 inches
- ·Dorsal color: tan, green, or rust red
- ·Dorsal pattern highly variable, typically 3 sets of stripes down the back, but stripes often broken into spots
- ·Dark mask typically extends from nose to groin as a stripe



·Often heard rather than seen. Call sounds like running a thumb nail along a comb (criiiiiiiiik)



Eggs & Tadpoles

- ·Small egg clusters (less than 1 inch) wrapped around vegetation
- Only tadpole in WY with lateral eyes (eyes stick out to sides and form part of the body's profile)
- ·Anal vent is on the side



Breeding Habitat

·Shallow water with emergent vegetation (ranging from wet meadows to reservoirs)

AMERICAN BULLFROG Lithobates catesbeianus

EGGS



METAMORPH



JUVENILE



TADPOLE



ADULT



AMERICAN BULLFROG Lithobates catesbeianus



Identification

- ·Largest frog in Wyoming (may be introduced)
- ·Size: ~2 inches (metamorph) to ~6 inches (adult)
- ·Dorsal color: light green to dark olive or brown
- ·Dark spots or dark mottling
- ·Ventral color: cream to yellow with dark mottling
- ·Dorsolateral folds end behind the tympanum (not continued down back)

Eggs & Tadpoles

- ·Eggs in large floating sheet on surface (1 to 5 feet wide)
- ·Tadpoles can reach up to 5.5 inches
- ·Tadpole eyes are medial; anal vent is on the side



Breeding Habitat

·Shallow portions of permanent water bodies with lots of vegetation; prefer warm water

Northern Leopard Frog Lithobates pipiens

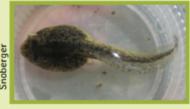
EGGS



METAMORPH



TADPOLE



ADULT (GREEN)

ADULT (BROWN)







NORTHERN LEOPARD FROG Lithobates pipiens

Identification

- ·Dorsal color: bright green, olive, or brown
- ·Large, dark oval spots with pale edging
- ·Skin is relatively smooth
- Ventral color: creamy white with no red present (on healthy frogs)
- Prominent pale dorsolateral folds from the eye down the length of the body
- ·Obvious typanum (ear) __
- ·Size: 1 inch (metamorph) to
- ~4.5 inches (adult)

Eggs & Tadpoles

- ·Eggs in round cluster ~3 to 5 inches in diameter
- ·Eggs either on the bottom or attached to vegetation
- 'Tadpole eyes are medial and anal vent is on the side





Breeding Habitat

·Shallow water in marshes and semi-permanent or permanent ponds (beaver ponds, stock ponds, etc.), or slow moving backwater areas along rivers or streams

WOOD FROG Lithobates sylvaticus

EGGS



METAMORPH



JUVENILE



TADPOLE



ADULT (SOUTHERN WY)



stes-Cumpt

WOOD FROG Lithobates sylvaticus



Identification

- Dorsal color: brown; Wood Frogs in southern
 WY have prominent white dorsal stripe
- Dorsolateral folds go from the eye to the groin
- Dark face mask (Zorro frog!) that extends just past the tympanum —
- ·Size: ~3/4 inch (metamorph) to ~3.5 inches (adult)



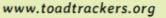
Eggs & Tadpoles

- Eggs in round cluster ~3 to 5 inches in diameter
- Eggs often in communal clusters just below the surface of the water
- ·Tail fin starts high on the body and is strongly arched
- ·Tadpole eyes are medial and anal vent is on the side



Breeding Habitat

·Shallow water in small permanent to ephemeral forest ponds and potholes or flooded meadows





COLUMBIA SPOTTED FROG Rana luteiventris

EGGS



TADPOLE

METAMORPH





1UVENILE







COLUMBIA SPOTTED FROG Rana luteiventris

Identification

- ·Size: 3/4 inch (metamorph) to ~3.9 inches
- ·Dorsal color: tan to dark olive or brown
- ·Irregular dark spots, often with light centers
- ·Dorsal skin has warty texture
- ·Dorsolateral folds present
- ·Red to orange lower abdomen and legs

Eggs & Tadpoles

- Eggs in round cluster (~3 to 8 inches)
- ·Egg masses are free floating and often in large communal clusters
- ·Tadpole eyes are medial, anal vent is on the side



Breeding Habitat

Shallow stagnant or slow-moving water ranging from temporary ponds and marshes to lakes and backwater areas of streams