Carleton College’s Cowling Arboretum (the Arb) is home to eight species of amphibians, including frogs, toads, and one salamander. They dwell in a variety of habitats throughout the Arb’s approximately 880 acres, ranging from ponds to wooded areas to prairie.

This guide is designed to help the outdoor enthusiast identify species encountered in the field, and locate areas
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Illustrations and Pamphlet by
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Introduction

This is a basic guide for the beginning amphibian enthusiast. It is meant to help identify any frogs, toads, or salamanders encountered in the Arb, and offer some helpful identifying characteristics.

Many of the species in this guide are more commonly heard than seen, so a brief description of the call has been included. Each species is active at different times of year, and calls are especially prevalent during breeding periods. These are listed for each species.

Different species are more likely to be encountered in certain arboretum habitats. The specific places listed for likely encounters of certain species are based on results from past Frog and Toad surveys, and correspond with the Arboretum map that can be found on pages 6-7.

Enjoy your time in the Arboretum! Any questions can be directed to the arboretum office, and more information is available on the Arboretum website.

Habitat Descriptions

A brief overview of the primary arboretum wetland habitats and their locations on the Arboretum Map.

Lyman Lakes: created in 1916-1917 as a gift to the college (6E and 5F)
Retention Pond: created to hold water run-off from the newly constructed Recreation Center and parking lot in 1999, surrounded by prairie planting (D7-E7)
Turtle Pond: created by excavation in 1998 (F12)
Kettlehole Marsh: natural water habitat, mostly undisturbed and important breeding site, surrounded by oak savannah (J13)
Oxbow Pond: natural pond, surrounded by woodland (J17)
Unnamed pond: natural pond, surrounded by woodland (M18)
American Toad
*Bufo Americanus*

Size: 2-3 ½ inches

**Appearance:** usually plain brown base color with brown/black spots and 1-2 warts in large dark spots, yellow, orange, red or brown (color typically matches environment)

**Habitat:** forests, woodlands, prairies, oak savannas with shallow pools of water

**Possible Arb Locations:** (numerous locations) near Lyman Lakes, Retention Pond, Turtle Pond, Oxbow Pond, and unnamed pond, Kettle Hole Marsh

**Call:** long trill (up to 30 sec) and short squeaks

**Breeding:** May through June
Gray and Cope’s Gray Treefrog  
*Hyla versicolor and Hyla chrysoscelis*

Size: 1 ¼ -2 inches

Appearance: Gray to green, often blotchy, with yellow or orange between hind legs

Habitat: Forested areas, prairie/forest interfaces (Cope’s Gray more on edge of wooded areas)

Possible Arb Locations: near Turtle, Oxbow and Unnamed ponds, Kettle Hole Marsh, near entrance to lower Arb across from Arb Office

Calls: Gray - short, musical trilll  
Cope’s - fast, high-pitched, buzzy trill

Breeding: May through June

Note: the two species can only accurately be distinguished in the field by calls
Bullfrog
*Rana catesbeiana*

**Size:** 3 ½-6 inches

**Appearance:** green, green/yellow or brown, may have brown splotches, male has yellow throat

**Habitat:** aquatic, large, permanent bodies of water

**Possible Arb Locations:** Lyman Lakes, Retention and Oxbow ponds

**Call:** low, vibrating “rrrrruuuuummm”, fog horn

**Breeding:** late June through July

**Note:** This species is invading our area, after being introduced by humans into their yards and ponds, or as escaped pets. It is only native to the very southeast corner of MN. Bullfrogs eat other frogs, so there is a potential impact to local frog populations.
Green Frog
*Rana clamitans*

**Size:** 2 ¼-3 ½ inches

**Appearance:** Most often green, can be brown, usually has dark brown/gray spots or blotches, adult males have bright yellow throats

**Habitat:** along shores of permanent bodies of water (lakes/ponds)

**Possible Arb Locations:** Oxbow Pond, unnamed pond

**Call:** like pluck of a banjo string, “glunk”, repeated calls drop in pitch/volume

**Breeding:** mid-June through July
Wood Frog
*Rana sylvatica*

**Size:** 1 3/8 – 2 ¾ inches

**Appearance:** Base color varies, pink to brown to black, characteristic dark patch behind eye

**Habitat:** moist wooded areas, may wander far from water source

**Possible Arb Locations:** Oxbow Pond and unnamed pond, Kettlehole Marsh

**Call:** a cackle-like call

**Breeding:** end of March through April

**Note:** This is the Arboretum’s earliest breeder; ice may still be present at the beginning of mating season
Northern Leopard Frog

*Rana pipiens*

**Size:** 2-3 ½ inches

**Appearance:** Brown or green, 2-3 rows of irregular spots, rounded with light borders

**Habitat:** grassy areas near water, prairies, may move far from water to hunt

**Possible Arb Locations:** Turtle pond, unnamed pond, Kettle-hole Marsh

**Call:** series of clicks/taps, grunts/chuckles/rumbles

**Breeding:** early April through May
Western Chorus Frog
*Pseudacris triseriata*

**Size:** ¾ - 1 ½ inches

**Appearance:** Pale gray to dark brown, can be olive or gray-green, typically has 3 dark stripes on back

**Habitat:** Prairie with shallow bodies of water, marshes, swamps

**Possible Arb Locations:** Turtle Pond, Oxbow Pond and unnamed pond, Kettle Hole Marsh

**Call:** metallic clicks, like running finger over comb teeth

**Breeding:** March through April
Eastern Tiger Salamander
*Ambystoma tigrinum*

**Size:** 7-8 ½ inches

**Appearance:** Dull black to dark brown body with light, irregular spots (olive or yellow-brown), olive-yellowish belly with darker marbling

**Habitat:** woods and open areas, breed in ponds

**Possible Arb Locations:** This species has only been sighted a few times in the Arboretum, in the vicinity of Kettle Hole Marsh. Report to Arboretum office if seen.

**Call:** none

**Breeding:** begins late winter/early spring