

Thematic Collection

The Canadian Field-Naturalist, Documenting Species New to Canada for Nearly a Century

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There are many reasons why a species not previously known to occur in Canada is subsequently found there. For example, species distributions may shift due to climate change, moving the upper limit of the species' range northward into Canada (Chen *et al.* 2011). Species not native to Canada may also be introduced – either intentionally or by accident – from other parts of the world. Observations of species in areas previously thought to be outside the species' distributions may also occur simply because the field biologist is in the right place at the right time to observe a cryptic species, or because new surveys occurred in areas not previously studied.

The Canadian Field-Naturalist (CFN) has played an important role documenting observations of species new to Canada¹, and has been adding to the known flora and fauna of Canada for nearly a century. This is due, at least in part, to its long and continuous publication history, and its focus on the natural history of Canadian species. CFN has to date published 99 volumes, starting in 1919². In total, this Thematic Collection includes 163 articles published in CFN, each documenting the first known observation of a given species (or subspecies) in Canada (Figure 1). The earliest documented the first observation of the Common Morel (*Morchella esculenta* (L.) Pers.) in Canada (Odell 1920), while the most

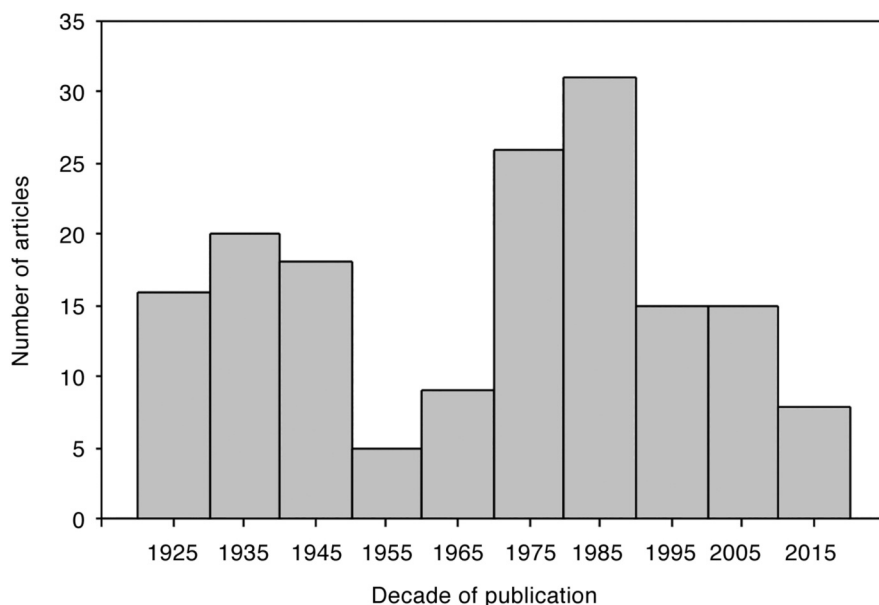


FIGURE 1. Number of articles documenting the first observation of a species (or subspecies) in Canada published in *The Canadian Field-Naturalist* since its inception in 1919.

¹The general goal of the Thematic Collection is to highlight published contributions to both CFN and the Ottawa Field-Naturalists' Club's (OFNC's) regional publication, *Trail & Landscape*, on a given theme. However, in this Collection I have included only publications in CFN, because my focus was on articles identifying new species at a national, rather than regional, extent.

²Prior to 1919, the OFNC published *The Ottawa Naturalist*. Its first issue was published in 1987, and 32 volumes were published by the OFNC under this name. Publication of *The Ottawa Naturalist* ceased with the first issue of CFN. The first issue of CFN began at volume 33.

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recent documented the first known occurrence of a Pacific Angel Shark (*Squatina californica*) off the coast of British Columbia (King and Surrey 2016). This collection of articles includes a broad array of taxa, including fungi (Odell 1920), lichens (Lewis 2010), plants (Duncan 1973), arachnids (Klugh 1920), insects (Morris 1986), molluscs (Te and Clarke 1985), fishes (Sylvester *et al.* 2005), mammals (Cowan 1945), birds (Taverner 1934), amphibians (Uzzell 1962), and reptiles (Sternberg 1932), and articles on both extant and long-extinct species (identified by their fossil remains; Gilmore 1923).

Understanding what species occur in Canada (and where) is an important first step in their conservation and management. For example, this Thematic Collection includes CFN articles documented the first known observations of species now listed as endangered in Canada and protected under the *Species at Risk Act*, including Hotwater Physa (*Physella wrighti*; Te and Clarke 1985; SARA Registry 2017a), Small-mouthed Salamander (*Ambystoma texanum*; Uzzell 1962; SARA Registry 2017b), and Tri-colored Bat (*Perimyotis subflavus*; Saunders 1920; SARA Registry 2017c). CFN has also documented the first known occurrences of invasive species such as Kudzu (*Pueraria montana* (Lour.) Merr.; Waldron and Larson 2012) which is considered to be one of the top 100 worst invasive species in the world (Global Invasive Species Database 2017). This Kudzu population is now being managed by the Canadian Food Inspection Agency (CFIA 2017).

The known flora and fauna of Canada are likely to continue to change, and at increasingly rapid rates. For example, Canada is likely to gain species as their distributions rapidly shift northward in response to climate change. In their global meta-analysis, Chen *et al.* (2011) found that species ranges were shifting to higher latitudes at a median rate of 17 km/decade. Rates of species invasions have also been increasing over time (Hulme 2009), suggesting that there will be an increasing number of non-native species to discover in Canada in the future. Thus, we expect that CFN will continue its important role documenting observations of species new to Canada, contributing to our knowledge of Canadian species and to their conservation and management.

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