



# Audubon | VERMONT

To: House Natural Resources Committee

From: Margaret Fowle, Audubon Vermont

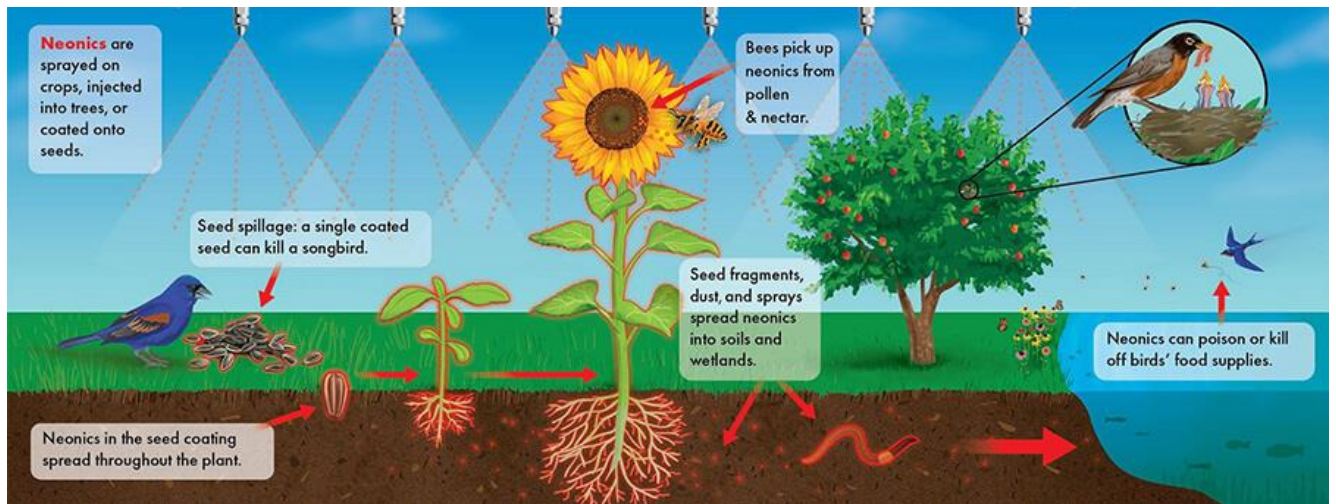
Re: Information about birds and pesticides to the Vermont House Natural Resources Committee

Date: April 7, 2021

- Bird population declines we've observed:
    - Cornell Report of more than three billion birds gone: [#BringBirdsBack \(3billionbirds.org\)](#)
      - Exact cause of the bird declines is unknown, but there appear to be direct links to:
        - Habitat loss in both breeding and wintering grounds
        - Agricultural practices, including runoff into waterways and intensified grassland management
        - Predation by domestic cats
        - Building collisions
        - Use of chemical pesticides, especially insecticides
          - Study in Germany documented an 82% in the biomass of flying insects over the past 25 years.
            - [More than 75 percent decline over 27 years in total flying insect biomass in protected areas \(plos.org\)](#)
    - Vermont Breeding Bird Atlas & other studies: declines in aerial insectivores include:
      - Chimney Swift - -25% change from first Atlas in VT
      - Common Nighthawk – 91% decrease from first Atlas in VT
      - Purple Martin – 62% decrease from first Atlas in VT
      - Tree Swallow – declines noted in Breeding Bird Survey:
        - [Getting to the root of long-term tree swallow declines -- ScienceDaily](#)
      - Eastern Meadowlark (eats seeds and insects) – 55% decrease from first Atlas in VT
- Bird population declines we predict:
  - Scientists are beginning to get a handle on the effects of the changing climate, as shown in Audubon's report: [Survival by Degrees: 389 Bird Species on the Brink | Audubon](#)



Graphic from [Neonics and Birds | American Bird Conservancy \(abcbirds.org\)](http://Neonics and Birds | American Bird Conservancy (abcbirds.org))



Other Resources:

- [The environmental risks of neonicotinoid pesticides: a review of the evidence post 2013 \(springer.com\)](http://The environmental risks of neonicotinoid pesticides: a review of the evidence post 2013 (springer.com))
- [Huge decline in songbirds linked to neonicotinoids \(nationalgeographic.com\)](http://Huge decline in songbirds linked to neonicotinoids (nationalgeographic.com))
- [What you need to know about neonicotinoids and the EU - Insights From Our Labs to Yours \(covance.com\)](http://What you need to know about neonicotinoids and the EU - Insights From Our Labs to Yours (covance.com)) – discusses a bit about the restrictions of pesticides in Europe vs. US
- [Spatiotemporal Patterns in Nest Box Occupancy by Tree Swallows Across North America \(bowdoin.edu\)](http://Spatiotemporal Patterns in Nest Box Occupancy by Tree Swallows Across North America (bowdoin.edu))