

Metadata for: Soil Neonicotinoid Monitoring Study

This table provides essential information about the program data.

Title	SOIL NEONICOTINOID MONITORING STUDY
Alternative Title	Multi-Media Monitoring Study
Abstract	<p>The Ontario Ministry of the Environment, Conservation and Parks (MECP) initiated the Multi-Media Monitoring Study in 2015 to measure changes in neonicotinoid insecticide concentrations in stream water and soil following restrictions on the use of neonicotinoid-treated corn and soybean seeds. The study also measured changes in aquatic benthic invertebrate communities. Baseline characterizations of stream water, soil and benthic invertebrates were completed in 2015. Followup surveys were completed between 2016 and 2018. This dataset contains measurements of neonicotinoid insecticide concentrations in soil samples collected from agricultural fields in southern Ontario between the months of April and November from 2015 to 2018. The data can be used to characterize neonicotinoid concentrations in soil at the study sites between 2015 and 2018. The data can also be used to explore how soil neonicotinoid concentrations vary with soil depth, with season and among watersheds from the sample sites. Data from stream water and benthic invertebrates are presented separately.</p>
Purpose	The dataset contains measurements of neonicotinoid insecticide concentrations in soil samples collected from agricultural fields in southern Ontario between the months of April and November from 2015 to 2018.
Status	Ongoing
Cited Responsible Parties	<p>Name: Aaron Todd Telephone: 416 314-5047 Email: aaron.todd@ontario.ca Organisation : Ontario Ministry of the Environment, Conservation and Parks Position: Supervisor, Terrestrial Assessment and Field Services, Environmental Monitoring and Reporting Branch Role : Custodian</p>
Use Limitations	<p>The results are applicable to agricultural soils in southern Ontario and not to the whole province. Constraints on the sampling design (voluntary participation, time and resource limitations) restrict how the interpretation of the data can be generalized. For example, sites were not randomly selected from watersheds, thus it is not clear if those sites represent those watersheds. Tile drains and other conduits for water to move rapidly from the fields to the streams have not been thoroughly documented. Four years of data is insufficient to assess trends over time, and the NNI restrictions were phased in during the study period (between 2016 and 2018) potentially delaying observable effects beyond 2018. Additional Considerations: Stream water neonicotinoid concentrations and benthic invertebrate data for this study are available separately.</p>
Geographic Bounds	<p>West bound : - 95.15699 East bound: - 74.30798 South bound: 41.6723 North bound: 56.850117</p>
Supplemental Information	<p>***** OPEN DATA CATALOGUE ***** https://data.ontario.ca/en/dataset/soil-neonicotinoid-monitoring-study ***** REPORTS ***** 2015: https://files.ontario.ca/moe_mapping/downloads/4Other/PHAP/Reports/2015_PHAP_Soil_NNI.docx</p>
Date Stamp	