Extracting phenology and life history data from digitized specimens

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Applying Citizen Science Protocols to Digitzed Museum Specimens Enables Data Integration and Discovery

Why citizen science protocols?



Citizen science data is often spatially extensive, but temporal limited



Herbarium-derived data products can be difficult to validate



Citizen science protocols often rely only on visual information



A project of the USA-NPN snon

National Phenology Network



Leaves

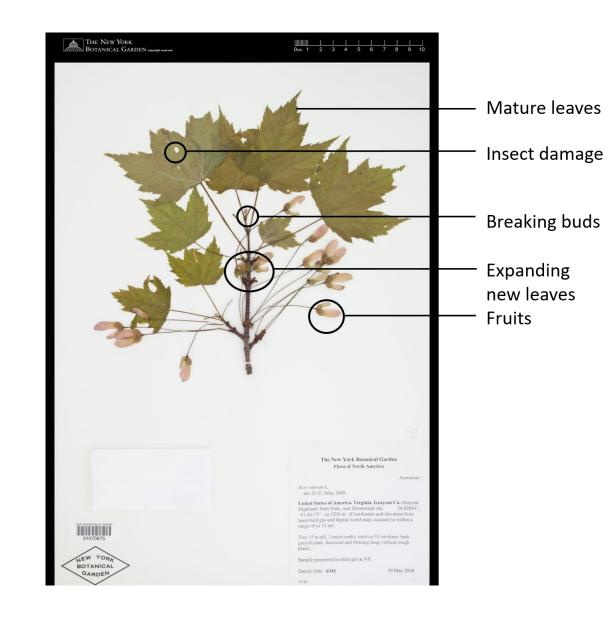
Leaf buds

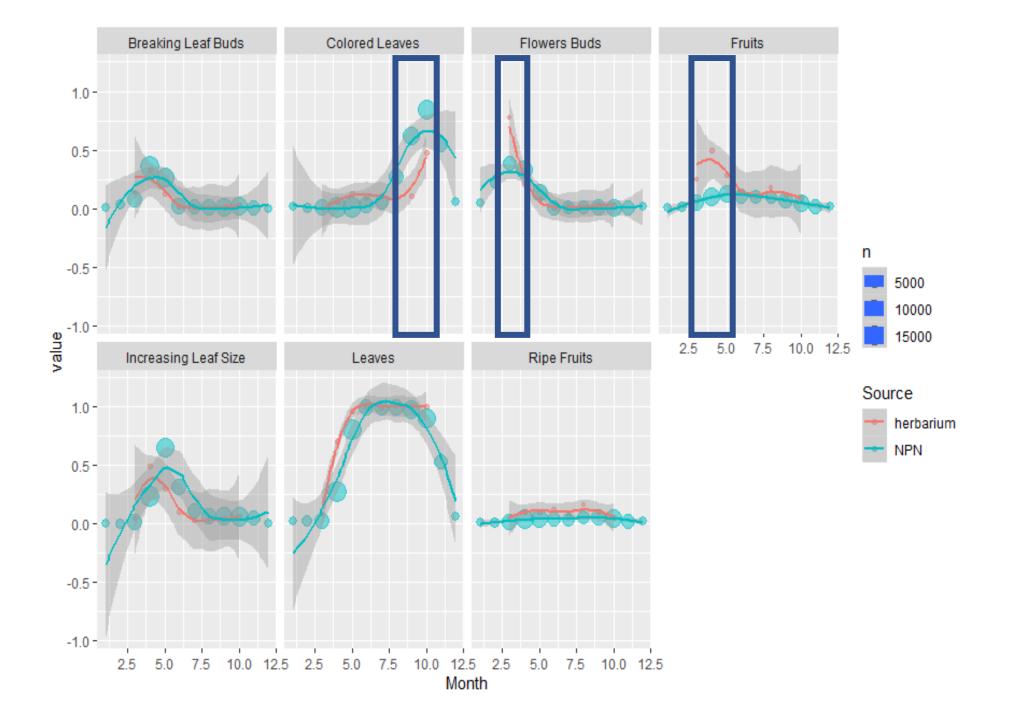
Breaking leaf buds Increasing leaf size

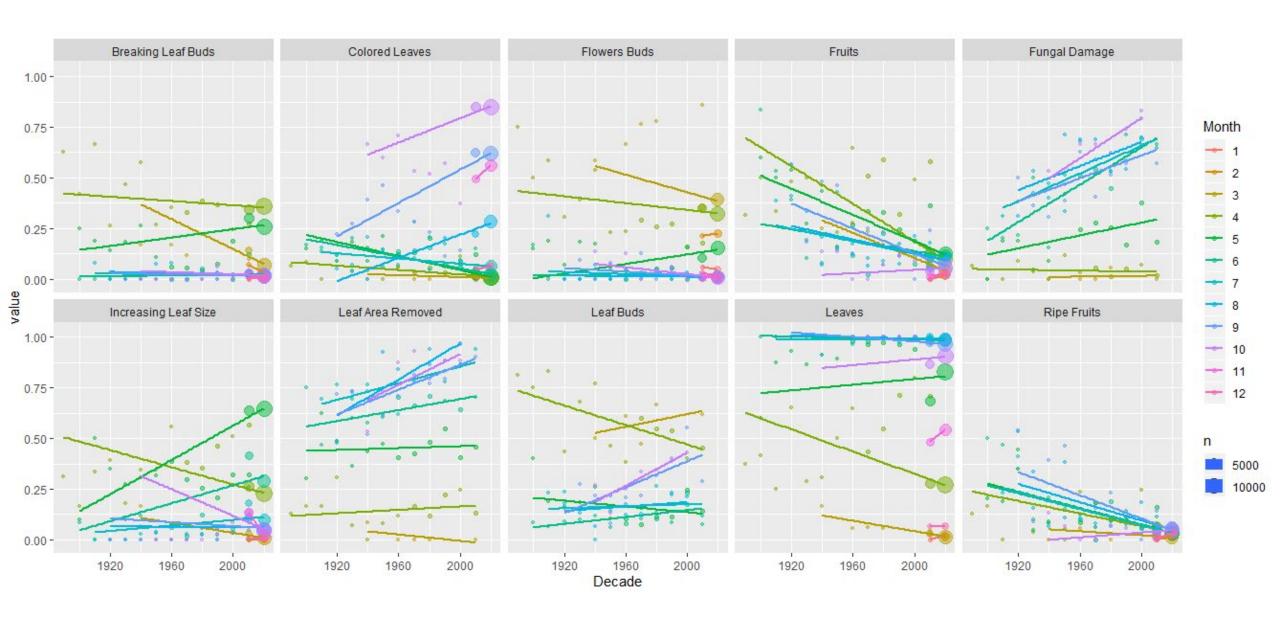
Colored Leaves Flowers or Flower buds

Fruit or seeds

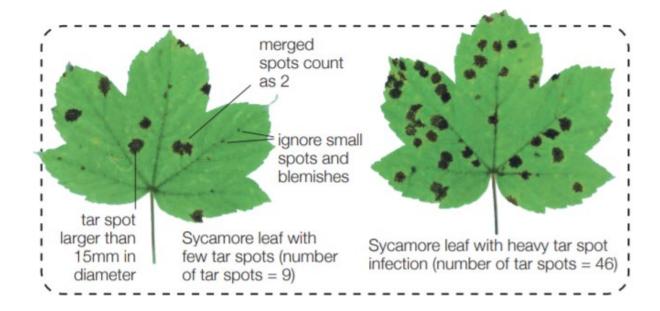
Ripe fruit

















The number of projects and opportunities are growing

budburst

a project of the Chicago Botanic Garden











Global Garlic Mustard Field Survey www.GarlicMustard.org

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Questions?