

Poisonous Plants of the Garden & Landscape

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November 2, 2022

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THE OHIO STATE UNIVERSITY
COLLEGE OF FOOD, AGRICULTURE,
AND ENVIRONMENTAL SCIENCES

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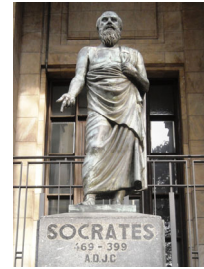
Introductions

- J.T. Benitez
- Extension Educator, Agriculture & Natural Resources
- The Ohio State University Extension, Butler County



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Sources:
Socrates, The History Channel
Poisonous Plants OH20 Publication, University of Vermont Extension
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri-Life Extension
Poisonous Plants in the Landscape C-957, University of Georgia Extension
Picture sourced from: Microsoft Office 2023

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Common Poisonous Plants: Dangers if Eaten

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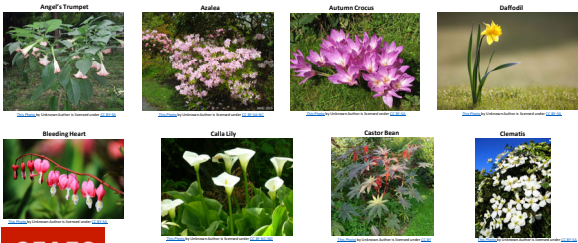
House Plants & Ornamentals	Toxic Part	Symptoms
Angel's Trumpet	All Parts	Blurring of Vision, Delirium, Possible Death
Azalea	All Parts	Nausea, Vomiting, Weakness, Dizziness, Breathing Difficulty, Coma
Autumn Crocus	Bulbs	Vomiting, Nervous Excitement
Bleeding Heart	Foliage, Roots	Poisonous in Large Amount
Calla Lily	All Parts	Inflammation of Mouth & Throat
Castor Bean	Seeds	Fatal. Very few seeds needed for death
Clematis	All Parts	Gastrointestinal Irritation
Daffodil, Jonquil, Narcissus	Bulbs	Nausea, vomiting, diarrhea. Death

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri-Life Extension
Poisonous Plants OH20 Publication, University of Vermont Extension
Poisonous Plants in the Landscape C-957, University of Georgia Extension

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House Plants & Ornamentals



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Pictures sourced from: Microsoft Office 2019

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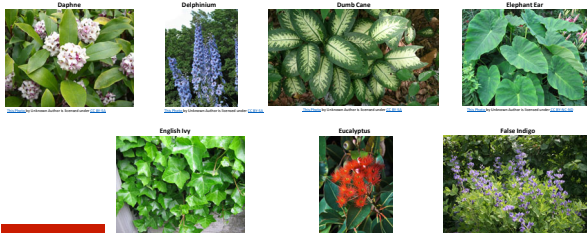
House Plants & Ornamentals	Toxic Part	Symptoms
Daphne	Berries	Fatal. Very few berries needed for death
Delphinium	All Parts	Digestive Issues, Nervous Excitement or Depression, Possible Death
Dieffenbachia (Dumb Cane)	All Parts	Intense irritation of the mouth and tongue. Death can occur
Elephant Ear	All Parts	Irritation of Tongue, Possible Death
English Ivy	Leaves, Stems, Fruits	Headache, Fever, Anxiety, Breathing Difficulty, Coma, Death
Eucalyptus	Leaves	Nausea, Vomiting, Diarrhea, Weakness, Respiratory Difficulty, Death
False Indigo	All Parts	Paralysis, Death

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri-Life Extension
Poisonous Plants OH20 Publication, University of Vermont Extension
Poisonous Plants in the Landscape C-957, University of Georgia Extension

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House Plants & Ornamentals



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Pictures sourced from: Microsoft Office 2019

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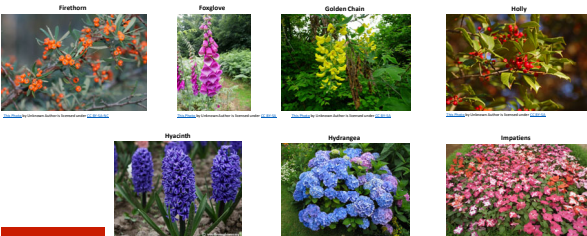
House Plants & Ornamentals	Toxic Part	Symptoms
Firethorn	Berries	Stomach Ache, Blistered Tongue, Vomiting
Foxglove	Leaves	Irregular Heartbeat & Pulse, Digestive Upset, Mental Confusion, Death
Golden Chain	Bean Capsules & Seeds	Severe Poisoning, Staggering, Convulsions, Coma, Death
Holly	Berries	Vomiting, Diarrhea
Hyacinth	Bulbs	Nausea, vomiting, diarrhea. Death
Hydrangea – Oakleaf, Big Leaf, Smooth	Leaves, Bark	Gastric, Intestinal, Convulsions
Impatiens, Balsam	All Parts	Vomiting, Diarrhea

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri-Life Extension
Poisonous Plants OH20 Publication, University of Vermont Extension
Poisonous Plants in the Landscape C-957, University of Georgia Extension

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House Plants & Ornamentals



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House Plants & Ornamentals	Toxic Part	Symptoms
Iris	Underground Stems	Severe Digestive Tract Issues
Jasmine	Berries	Digestive Issues, Nervous Symptoms, Death
Lantana Camara (Red Sage)	Green Berries	Gastric, Vomiting, Diarrhea, Circulatory Collapse, Lungs, Kidneys, Death
Larkspur	Young Plant, Seeds	Digestive Issues, Nervous Excitement, Depression, Death
Laurels	All Parts	Nausea, Vomiting, Depression, Paralysis, Convulsions, Breathing Difficulty, Coma, Death
Monkshood	Roots	Digestive and Nervous Excitement

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri-Life Extension
Poisonous Plants OH20 Publication, University of Vermont Extension
Poisonous Plants in the Landscape C-957, University of Georgia Extension

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House Plants & Ornamentals



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House Plants & Ornamentals	Toxic Part	Symptoms
Lilly-of-the-Valley	All Parts	Nausea, Vomiting, Diarrhea, Irregular Heartbeat & Pulse, Mental Confusion
Lilies – Rain, Atamasco, Easter	All Parts	Dizziness, Stomach Pain, Collapse, Fatal to Livestock
Morning Glory	Seeds, Roots	Hallucinations, Vomiting, Diarrhea, Muscle Tightness
Oleander	Leaves & Branches	Extremely poisonous. Affects heart & digestion, can cause death
Periwinkle (Vine)	All Parts	Intestinal Irritation
Periwinkle (Annual)	All Parts	Hallucination, Damage to: Liver, Kidney, Nervous System

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri Life Extension
Poisonous Plants OH20 Publication, University of Vermont Extension
Poisonous Plants in the Landscape C-957, University of Georgia Extension

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House Plants & Ornamentals



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House Plants & Ornamentals	Toxic Part	Symptoms
Rhododendrons	All Parts	Nausea, Vomiting, Depression, Breathing Difficulty, Coma, Death
Rosary Pea	Seeds	Fatal. Very few seeds needed for death
Star of Bethlehem	Bulbs	Vomiting, Nervous Excitement
Trumpet Creeper	All Parts	Gastric Irritation, Dilated Pupils, Hand Numbness
Virginia Creeper (Woodbine)	Berries, Leaves	Nausea, Bloody Vomiting, Abdominal Pain, Kidney Damage, Headache
Wisteria	Seeds, Pods	Digestive Issues, Children poisoned often by this plant.

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri Life Extension
Poisonous Plants OH20 Publication, University of Vermont Extension
Poisonous Plants in the Landscape C-957, University of Georgia Extension

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House Plants & Ornamentals



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Pictures sourced from: Microsoft Office 2019

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Trees & Shrubs	Toxic Part	Symptoms
American Arborvitae Tree	Leaves	Low Blood Pressure, Convulsions, Possible Death
Anise Tree	Leaves	Abdominal Pain, Vomiting, Convulsions, Possible Death
Black Locust Tree	Bark & Seeds	Nausea, Weakness, Depression
Boxwood	Leaves	Gastric & Vomiting
Buckeye Tree	All Parts	Digestive Irritant, Nausea, Vomiting
Cherry Tree (All Species)	Leaves, Bark, Seeds	Gasping, Nervous Disorder, Fatal

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri Life Extension
Poisonous Plants OH20 Publication, University of Vermont Extension
Poisonous Plants in the Landscape C-957, University of Georgia Extension

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Trees & Shrubs

American Arborvitae Tree



Asian Tree



Black Locust Tree



Bittersweet



Bursera



Cherry Tree



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Pictures sourced from: Microsoft Office 2019

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Trees & Shrubs	Toxic Part	Symptoms
Elderberry	Roots, Bark, Stem, Leaves, Unripe Fruit	Nausea, Vomiting Fruits not harmful when cooked
Ginkgo Tree	Fruit	Violent Stomach Pain, Kidney Disorders
Honeysuckle (Japanese & Trumpet)	All Parts	Diarrhea, Pupil Dilation, Irregular Heartbeat, Respiratory Failure, Coma, Death
Juniper	Berry Like Seeds	Kidney Damage
Oaks	Foliage, Acorns	Slow Kidney Damage, Weeks to see issues develop
Yew Tree	Berries, Foliage	Death can be sudden without symptoms

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri-Life Extension
Poisonous Plants OH20 Publication, University of Vermont Extension
Poisonous Plants in the Landscape C-917, University of Georgia Extension

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Trees & Shrubs



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Pictures sourced from: Microsoft Office 2019

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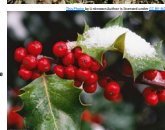
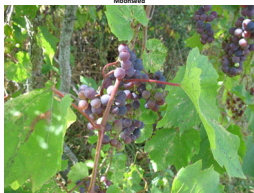
Plants in Wooded Areas	Toxic Part	Symptoms
Jack-in-the-Pulpit	All Parts	Irritation & Burning of Mouth & Tongue
Moonseed	Berries	Poisoning, Death possible
Mayapple	Apple, Foliage, Roots	Diarrhea
Mistletoe	Berries	Poisoning, Fatal

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri-Life Extension

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Plants in Wooded Areas



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Pictures sourced from: Microsoft Office 2019

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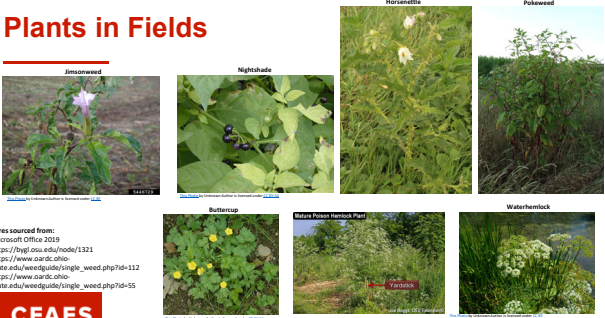
Plants in Fields	Toxic Part	Symptoms
Buttercups	All Parts	Severe Digestive Issues
Horsenettle	Leaves & Berries	Poisonous, Can be Fatal
Jimson Weed (Thorn Apple)	All Parts	Abnormal Thirst, Distorted Sight, Delirium, Incoherence, Coma, Death
Nightshade	All Parts	Severe Digestive and Nervous System Issues, Death
Poison Hemlock	All Parts	Death, Very Poisonous
Pokeweed	All Parts	Mouth burning, salivation, gastrointestinal, vomiting, bloody diarrhea, anemia, altered heart rate & respiration, convulsions, death
Water Hemlock	All Parts	Violent, Painful Convulsions, Death

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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri-Life Extension
Horsenettle, OARDC Ohio Perennial and Biennial Weed Guide
Common Pokeweed, OARDC Ohio Perennial and Biennial Weed Guide

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Plants in Fields



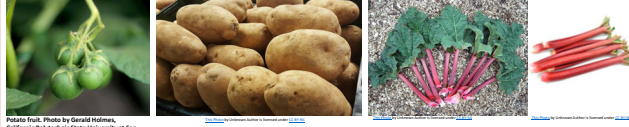
Jimsonweed
Nightshade
Horsenettle
Pokeweed
Buttercup
Waterhemlock

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Pictures sourced from:
• Microsoft Office 2019
https://hgpl.osu.edu/node/1321
https://www.osaic.ohio-state.edu/weedguide/single.php?id=112
https://www.osaic.ohio-state.edu/weedguide/single.php?id=55

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Vegetable Plants	Toxic Part	Symptoms
Rhubarb	Leaf Blade	Convulsions, Coma, Death
Potato	Vines, Green Tubers, Sprouts	Headache, Abdominal pain, Shock and Diarrhea



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Sources:
Common Poisonous Plants and Plant Parts Publication, Texas A & M Agri-Life Extension
Poisonous Plants OH202 Publication, University of Vermont Extension
What fruit is growing on my potato plants article, MSU Extension
Picture sourced from: What fruit is growing on my potato plants article, MSU Extension & Microsoft Office 2019

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Common Poisonous Plants: Danger To Touch!

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Plants Poisonous to Touch	Toxic Part
Buttercups	Contact with Leaves
Cowslip, Yellow Marsh Marigold	Plant Juices
Giant Hogweed	Plant Sap & Juices
Iris	Contact with Rhizomes (Roots)
Lady Slipper	Contact with leaves
Milkweed	Plant Sap & Juices
Nettles	Contact with Stinging Hairs
Pigweed	Plant Juices & Sap

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Sources:
Poisonous Plants OH202 Publication, University of Vermont Extension
Toxicity, OH202: Ohio Poisonous and Dangerous Plant Guide
Learn to Recognize AHS-20 Publications, Ohio Extension
Home Garden Facts: Don't Touch These Plants, Cornell Cooperative Extension

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Buttercups



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Pictures sourced from: Microsoft Office 2019

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Cowslip, Yellow Marsh Marigold



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Pictures sourced from: Microsoft Office 2019

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Giant Hogweed



Giant hogweed's umbrella-shaped inflorescence can grow up to 2.5 feet in diameter.



Giant hogweed can grow up to 15 feet in height and flowers in late June to early July.



Leaves of giant hogweed have different shapes and sizes during its life cycle.



The top of giant hogweed can cause severe burns on the skin.



Prominent white hairs at node and base of petiole.



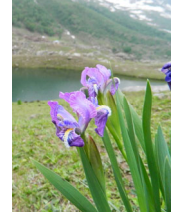
Leaves of giant hogweed have different shapes and sizes during its life cycle.

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Pictures sourced from: Giant Hogweed ANR-35 Publication, OSU Extension

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Iris



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Pictures sourced from: Microsoft Office 2019

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Lady Slipper

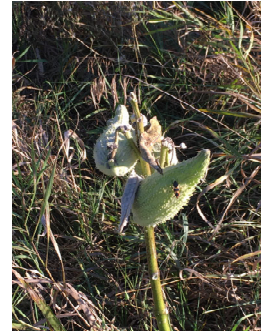


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Pictures sourced from: Microsoft Office 2019

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Milkweed



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Pictures sourced from: J.T. Benitez, ANR Educator, OSU Extension

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Nettles



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Pictures sourced from: Horsenettia, OARDC Ohio Perennial and Biennial Weed Guide

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Pigweed



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Pictures sourced from: J.T. Benitez, ANR Educator, OSU Extension
Microsoft Office 2019

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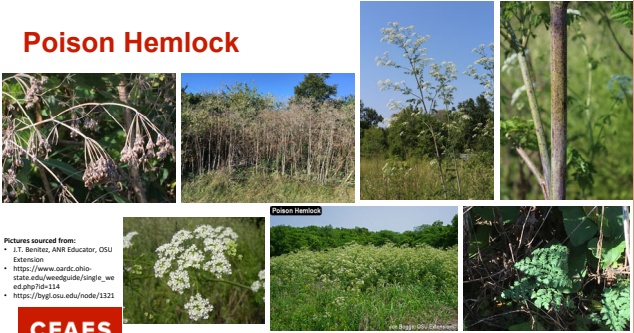
Plants Poisonous to Touch	Toxic Part
Poison Hemlock	Plant Juices & Sap
Poison Ivy	Plant Oils
Poison Oak	Plant Oils
Poison Sumac	Plant Oils
Pokeweed	Plant Juices
Spurges	Contact with Milk sap from leaves & stems
Wild Parsnip	Plant Saps

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Source:
Common Poisonous (CMPC) Ohio Perennial and Biennial Weed Guide
Poison Hemlock and Wild Parsnip are going to be in Southern Ohio, Buckeye Yard & Garden Online, OSU Extension
Home Green Fairs - Don't touch these plants!, Cornell Cooperative Extension
Home Green Fairs - Poison Ivy, Poison Oak, Poison Sumac, Cornell Cooperative Extension

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Poison Hemlock




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Pictures sourced from:
• J.T. Benitez, AMR Educator, OSU Extension
• https://www.osu.edu/extension/ohio-state.edu/extension/single_web.php?id=144
• <https://bygl.osu.edu/node/1321>

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Poison Ivy



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Pictures sourced from: Microsoft Office 2019

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Poison Oak




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Pictures sourced from:
Poison Ivy HO-333-W Publication, Purdue Extension
Identification of Poison Ivy, Poison Oak, Poison Sumac, and Poisonwood, University of Florida Extension

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Poison Sumac




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Pictures sourced from:
Identification of Poison Ivy, Poison Oak, Poison Sumac, and Poisonwood, University of Florida Extension
Microsoft Office 2019

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Comparing Poison Ivy, Oak & Sumac



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Source:
Common Poisonous (CMPC) Ohio Perennial and Biennial Weed Guide
Poison Hemlock and Wild Parsnip are going to be in Southern Ohio, Buckeye Yard & Garden Online, OSU Extension
Home Green Fairs - Don't touch these plants!, Cornell Cooperative Extension
Home Green Fairs - Poison Ivy, Poison Oak, Poison Sumac, Cornell Cooperative Extension

Pictures sourced from:
Identification of Poison Ivy, Poison Oak, Poison Sumac, and Poisonwood, University of Florida Extension

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Pokeweed



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Pictures sourced from: J.T. Bembles, ANR Educator, OSU Extension

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Spurge



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Pictures Sources from: Microsoft Office 2019

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Wild Parsnip



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Pictures sourced from: Poison Hemlock and Wild Parsnip are going to Seed in Southern Ohio, Buckeye Yard and Garden Online, OSU Extension

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Toxic Plants in Forages

- Cress-leaf Groundsel
- Golden Ragwort
- White Snakeroot
- Dwarf Larkspur
- Creeping Spurge
- Spotted Spurge
- Carolina Horsenettle
- Climbing Nightshade
- Black Locust
- Sundial Lupine
- Ohio Buckeye
- Horsetail
- Jimsonweed
- Common Milkweed
- Common Pokeweed
- Poison Hemlock

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Sources: Guide to Toxic Plants in Forages WS-97, Purdue University Cooperative Extension

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Cress-leaf Groundsel



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Sources: Guide to Toxic Plants in Forages WS-97, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

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Golden Ragwort



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Sources: Guide to Toxic Plants in Forages WS-97, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

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White Snakeroot



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Sources: Guide to Toxic Plants in Forages WS-37, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

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Dwarf Larkspur



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Sources: Guide to Toxic Plants in Forages WS-37, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

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Creeping Spurge



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Sources: Guide to Toxic Plants in Forages WS-37, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

51

Spotted Spurge



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Sources: Guide to Toxic Plants in Forages WS-37, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

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Carolina Horsenettle



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Sources: Guide to Toxic Plants in Forages WS-37, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

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Climbing Nightshade



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Sources: Guide to Toxic Plants in Forages WS-37, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

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Black Locust Tree & Buckeye Tree



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Sources: Guide to Toxic Plants in Forages WS-37, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

55

Sundial Lupine



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Sources: Guide to Toxic Plants in Forages WS-37, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

56

Horsetail



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Sources: Guide to Toxic Plants in Forages WS-37, Purdue University Cooperative Extension
Pictures Sources from: Microsoft Office 2019

57

Jimsonweed

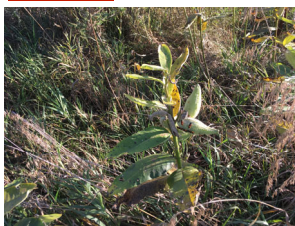


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Pictures sourced from: J.T. Benitez, ANR Educator, OSU Extension

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Milkweed

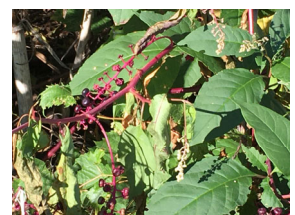
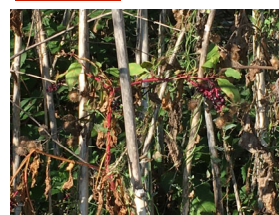


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Pictures sourced from: J.T. Benitez, ANR Educator, OSU Extension

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Pokeweed



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Pictures sourced from: J.T. Benitez, ANR Educator, OSU Extension

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Poison Hemlock



Pictures sourced from:
 • J.T. Benitez, ANR Educator, OSU Extension
 • https://www.oardc.ohio-state.edu/webguide/single_web.php?id=114
 • <https://hvgl.osu.edu/node/1321>

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Pet Safe Gardening

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Sources: Petcaping: Creating a Pet-Friendly Garden, Penn State Extension
 Pictures sourced from: J.T. Benitez, ANR Educator, OSU Extension

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Pet Safe Gardening Safety Review

- Choosing nontoxic plants
- Evaluate your current landscape
 - What is currently in there?
 - Planted & Wild
 - ID Plants Unknown
- OSU Plant & Pest Diagnostic Clinic
 - <https://ppdc.osu.edu/>
- Develop a plan for pet gardening
 - Research, know what you are planting



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Sources: Petcaping: Creating a Pet-Friendly Garden, Penn State Extension
 Pictures sourced from: J.T. Benitez, ANR Educator, OSU Extension

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Pet Safe Gardening Other Considerations

- Watch out for plants with thorns
 - Stick in the paws!
- Mulch selection cautions
 - Watch out for Cocoa Mulch
- Fertilizers & Pesticides
 - Free from exposure. They can get sick
- Compost security
 - So they don't eat it!



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Sources: Petcaping: Creating a Pet-Friendly Garden, Penn State Extension
 Pictures sourced from: J.T. Benitez, ANR Educator, OSU Extension

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Pet Safe Gardening Design

- Establish boundaries
- Create densely planted areas
- Provide an area for exercise
- Make pathways
- Build a dig pit
- Create a Pet Restroom area
- Provide shade and water



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Sources: Petcaping: Creating a Pet-Friendly Garden, Penn State Extension
 Pictures sourced from: J.T. Benitez, ANR Educator, OSU Extension

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Plants Toxic to Dogs, Cats, Horses List

- List of Plants Toxic to Cats
 - <https://s3.amazonaws.com/assets.cce.cornell.edu/attachments/23086/Plants-Toxic-to-Cats-2012.pdf?1494280857>
- List of Plants Toxic to Dogs
 - <https://s3.amazonaws.com/assets.cce.cornell.edu/attachments/23087/Plants-Toxic-to-Dogs-2012.pdf?1494280870>
- List of Plants Toxic to Horses
 - <https://s3.amazonaws.com/assets.cce.cornell.edu/attachments/23088/Plants-Toxic-to-Horses-2012.pdf?1494280894>

Cornell Cooperative Extension, Oneida County
<http://cceoneida.com/home-garden/gardening/fact-sheets/plants-fungi/toxic-plants>

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Final Thoughts & Prevention

- This is a small list of plants that can be poisonous or toxic. There are many more out there!
- Always treat unknown plants with respect and teach others to do the same!
- Research the plants, know what you are dealing with!
- Wash Hands
- Use Gloves & Tools
- Do not eat or touch unknown plants
- Protect Children, Pets and Livestock
- Be aware of the plants around you, learn what is there!
- Call Poison Control or Medical Provider if you suspect poisoning. **DO NOT HESITATE!**

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Poison Control Help!

- Call Poison Control if you suspect you may or someone has been poisoned by a poisonous plant!
- Seek medical attention if necessary
- Pets or Livestock, contact your Vet as soon as you suspect they may have been poisoned by a poisonous plant!



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Pictures sourced from: Microsoft Office 2019

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When in doubt, test it out!

**The Ohio State University
Plant & Pest Diagnostic Clinic**
<https://ppdc.osu.edu/>

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**Submitting
a sample
is easy!**

For information on collecting, packaging, and transporting a sample for diagnosis, contact the C. Wayne Ellett Plant and Pest Diagnostic Clinic or your local OSU Extension office. A listing of county Extension offices can be found online: <http://extension.osu.edu/contact.php>



**C. Wayne Ellett
Plant and Pest
Diagnostic Clinic**

The Ohio State University
Plant Industry Building
8991 E. Main St., Bldg. 23
Reynoldsburg, OH 43068-1599
Phone: 614.292.3096
Fax: 614.296.9714
E-mail: ppdc@osu.edu
Web site: <http://ppdc.osu.edu>



**THE C. WAYNE ELLETT
PLANT AND PEST
DIAGNOSTIC CLINIC**

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Who We Are

The C. Wayne Ellett Plant and Pest Diagnostic Clinic (CWEPPDC) is a diagnostic facility specializing in the identification of plant diseases, plant health issues, and insect related problems. The CWEPPDC offers a broad spectrum of low-cost testing to identify pests and culturally/environmentally related plant health issues. Experienced diagnosticians collaborate with specialists in plant pathology, entomology, horticulture, agronomy, natural resources, and other areas to identify pests, diseases, and cultural/environmental factors.

What We Provide

Services provided include the identification and diagnosis of:

- Fungal, bacterial, and viral plant diseases
- Insects and other arthropods
- Insect damage
- Plant and aquatic weeds
- Environmental/cultural injury to plants
- Nematodes, including soybean cyst nematode



A Partner in Agricultural Security

The CWEPPDC is a partner in the National Plant Diagnostic Network (NPDN) (<http://www.npdn.org>), a nationwide consortium of diagnostic laboratories that enhance agricultural security by rapidly detecting and recovering pest and pathogen introduced into a new region of the United States.



Clientele We Serve

- Ohio State University Extension (OSU) offices
- Ohio Agricultural Research and Development Center (OARDC)
- Greenhouse operators and managers
- Nursery producers
- Pest control operators
- Food service industries
- Advertisers
- Landscape managers
- Garden centers
- Fruit and vegetable growers
- Farmers
- City consultants
- Citizens and businesses of Ohio
- Golf course superintendents
- Turfgrass managers
- Seed producers

Send turfgrass samples (only) to:
201 Kortman Hall
2021 Coffey Rd.
Columbus, OH 43212

For all other samples, see address on reverse side of brochure.



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<https://go.osu.edu/CQY6>

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