AUGUSTNIOSH & PESTS

August 8th, 2023

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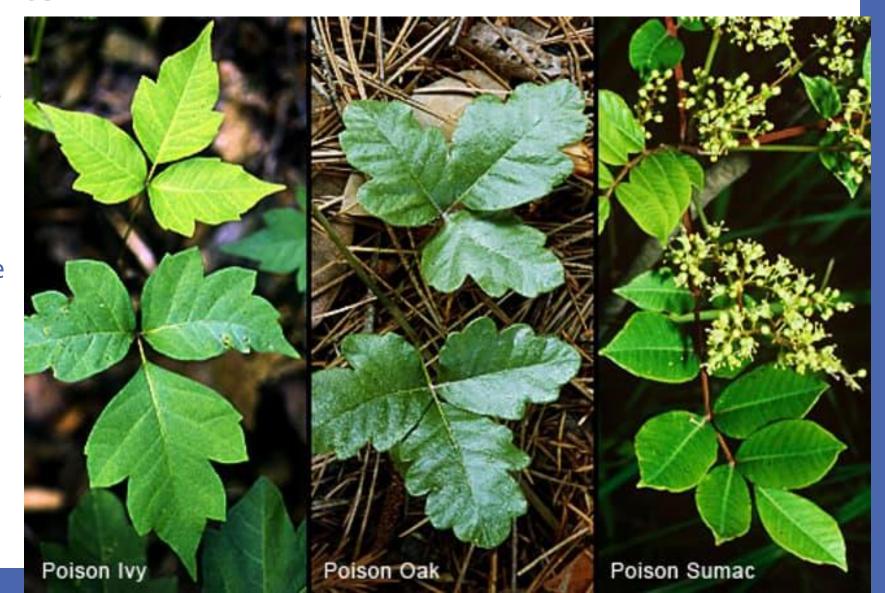
POISONOUS PLANTS

NIOSH

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Poisonous Plants

- Contains urushiol, an oily irritant that causes blisters and itching, and can be aerosolized by burning
- The oil can be transferred from surfaces that have been in contact with it, like garden tools, gloves, outerwear, or animal fur.









- Flowering in June & July
- Fruiting in Sept & Oct
- Slightly toothed leaves in groups of three
- Center leaf on a slightly longer stem than the two side leaves.
- Can be vining or shrubby





Poison Sumac

- Tall shrub or small tree
- Drooping clusters of uneven shaped green berries
- Leaf cluster of 7 -13 smooth leaflets arranged in pairs
- Thrives in wet, swampy regions





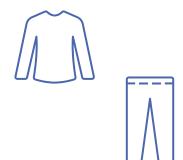


Poison Oak

- Not hardy in our region, but may persist in microclimates
- Similar to Poison Ivy's three-leaf cluster, with a more oak-like leaf shape
- Lighter colored on the bottom, with fuzzy hairs
- Often takes a shrub form



Poisonous Plant Exposure Prevention & Treatment



• Prevent:

- Wear long sleeves, gloves, and pants tucked into socks
- Learn to ID poisonous plants
- Take extra caution when entering unmanaged areas
- If you see something, say something!



Treat

- Wash the affected area with mild soap and water
- Clean garden tools that may have encountered urushiol oils while wearing disposable gloves
- Over-the-counter antihistamines and topical treatments like hydrocortisone

Poisonous Plant Facts



• Rashes can take 8 to 72 hours to form



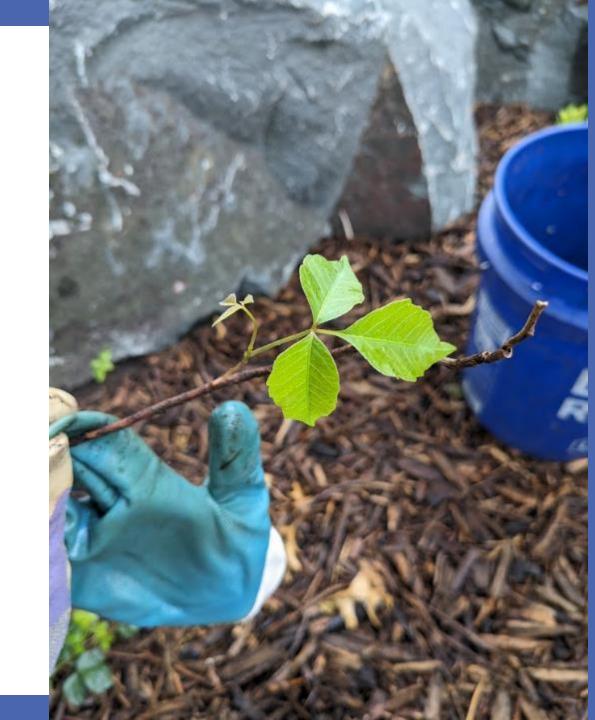




• Medical help is necessary if contact occurs with eyes, sensitive areas, or is widespread over the body.

Sources

- https://www.cdc.gov/niosh/topics/plants/default.html
- https://www.si.edu/stories/poison-ivyprimer







Sun Exposure

- Ultraviolet (UV) rays are an invisible form of radiation present in sunlight
 - UVA
 - Most abundant
 - Penetrates beyond the top layer of skin
 - Damages connective tissues
 - Increases risk of skin cancers
 - UVB
 - Penetrates the skin less deeply than UVA
 - Increases risk for some skin cancers
 - UVC
 - Absorbed by the upper atmosphere, doesn't affect us

Sun Exposure

- Light-colored surfaces reflect sunlight and UV rays
 - Pavement, sand, buildings
- Certain drugs increase sensitivity to sunlight
 - Thiazides and other diuretics
 - Tetracycline (antibacterial acne medication)
 - Doxycycline (antibiotic)
 - Sulfa antibiotics (wound care, acne, UTI, ear infections, yeast infections)
 - Nonsteroidal anti-inflammatory drugs (NSAIDs) like ibuprofen

Sunburn

Dermal Symptoms

- Red, warm, tender skin
- Swelling
- Blisters
- Headache
- Fever
- Nausea
- Fatigue
- Skin Peeling

Re-Design

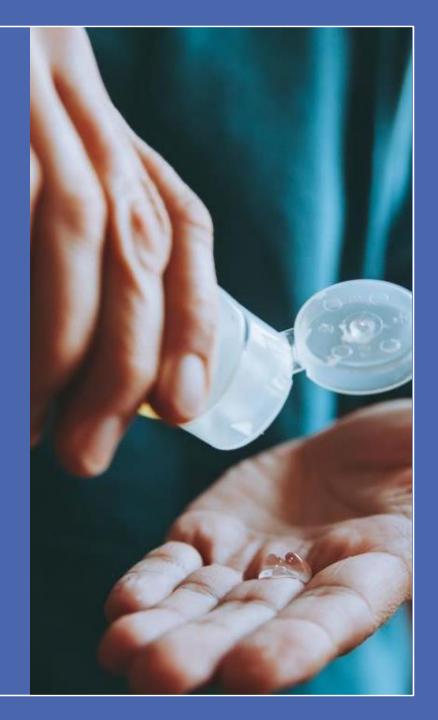
Optical Symptoms

- Redness
- Dryness
- Pain
- Gritty feeling

Sunburn First Aid

Treatment

- Aspirin, acetaminophen, and ibuprofen to relieve pain and headache, and reduce fever
- Drink water
- Cool baths or applying cool wet compresses
- Avoid additional sun exposure until sunburn resolves
- ≥1% hydrocortisone cream can help reduce burning, swelling, and speed healing



Skin Cancer

- The most common forms of cancer
 - Basal cell carcinoma
 - Squamous cell carcinoma
 - Melanoma
- Very treatable when caught early

- Potential skin cancer indicators
 - Irregular borders on moles (ragged, notched, or blurred edges)
 - Moles that are not symmetrical (one half doesn't match the other)
 - Colors that are not uniform throughout
 - Moles that are bigger than a pencil eraser
 - Itchy or painful moles
 - New moles
 - Sores that bleed and do not heal
 - Red patches or lumps

Protecting Yourself

- Wear sunscreen with SPF minimum of 15
 - SPF refers to the amount of time that a person will be protected from a burn caused by UVB rays
 - SPF 15 allows a person to stay out in the sun 15 times longer than no protection without burning.
 - Apply ~20 minutes before sun exposure
 - Reapply every 2 hours, or more often with heavy perspiration
 - Some SPF may be less effective when applied with insect repellant
- Wear SPF clothing or clothing with a tight weave to its fabric
- Wear wide-brimmed hats and UV-rated sunglasses with side panels
- Take breaks in the shade

Sources

• https://www.cdc.gov/niosh/topics/sunexposure/default.html



POWDERY MILDEWS

Ew.



Powdery Mildew

- A common name for a variety of fungal diseases that are common this time of year
 - Different types of fungus affect different types of plants
- Symptoms
 - Grayish dots or patches that eventually grow to encompass the entire leaf, stem, or in cases of extreme infection, the entire plant.
- Spread
 - Via spores produced by the fungus being splashed with water or blown by wind.



Powdery Mildew

- Prevention
 - Weeding out plants that could crowd, causing favorable conditions, or hosting mold
 - Pruning plants to increase airflow through their canopy
 - Watering at the base, not through the foliage
 - Planting resistant varieties

SCALE

Double ICK!

- Feed on plant sap with piercingsucking mouthparts
- Secrete sticky honeydew that coats everything below
- Honeydew attracts other pests, wasps, etc
- Honeydew also hosts sooty molds, which can cause black buildup

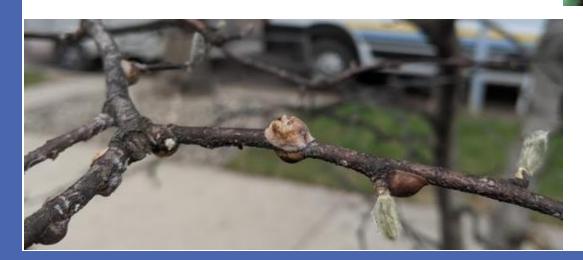




- Adults are immobile, permanently attached to the host plant
 - Armored scales
 - Soft scales
- Adults are often immune to chemical treatments
- Small volumes are not a problem, but they can multiply quickly.
 - 2 generations in a season mostly

• Species specific to certain plants

Magnolia Scale



Pachysandra Scale



Pine Scale

- Treatment
 - There are horticultural soaps that can kill juveniles, but the timing is essential
- Prevention
 - Identify scale
 - Remove affected portions of plants with scale

