

Abiotic	Relating to nonliving agents, including physical and environmental factors. Examples: precipitation, temperature, mechanical, and chemical influences.
Active ingredient	The ingredient in a pesticide product that controls the target pest.
Alkaline	Having basic (non-acidic) properties; a pH greater than 7.
Alternate leaf arrangement	Only a single leaf is attached at each stem node.
Alternate host	One of two kinds of plants on which a pathogenic fungus must develop to complete its life cycle. Example: cedarapple rust.
Annual	A plant that normally completes its life cycle of seed germination, vegetative growth, reproduction, and death in a single year.
Appressed	Lying flat or pressed closely against something.
Arthropod	A group of animals characterized by having an exoskeleton made of chitin, bilateral symmetry, and segmented appendages.
Asexual	A type of reproduction in the absence of males.
Balled and burlapped	Nursery trees or shrubs that have been dug with soil surrounding the roots and wrapped with material.
Bare root	Pertaining to tree seedlings raised in open fields and lifted from the soil prior to transplanting.
Beneficial organism	An individual plant, animal, or microorganism that can provide a benefit to an aspect of plant growth, pollination, or pest management.
Biological control	The action of parasites, predators, or pathogens in maintaining another organism's population density at a lower average level than would occur in their absence.
Biotic	Relating to living organisms. Examples: pathogens (fungi, bacteria), insects, mites, and vertebrates.

Blight	Sudden, severe withering of leaves, flowers, shoots or fruit.
Broadleaf	Plants with leaves that have a flat, relatively wide surface compared to those with needle-like leaves.
Broad-spectrum	Insecticides that lack selectivity to a particular insect.
Canker	Dead, discolored, often sunken area (lesion) on a root, trunk, stem, or branch.
Candle	The new growth on pine and spruce trees.
Catkin	A tassel-like spike of closely clustered, small, unisexual flowers without petals. Examples: birch and willow have catkins.
Chlorosis	Yellowing of leaves, veins, or areas of leaves between the veins.
Complete metamorphosis	An insect's change in form during development that involves egg, larval, pupal, and adult stages.
Compound leaf	A leaf divided into discrete leaflets.
Conifer	Cone-bearing plant.
Contact insecticide	A pesticide that is intended to directly contact the insect and that is absorbed through the exterior of the insect.
Corymb	A flat-topped flower cluster.
Crawlers	Scale insects in their active stage.
Crown	The part of the tree where the trunk or main stem joins the roots and the upper canopy.
Deciduous	Trees or shrubs that lose their leaves every year.
Dioecious	Male and female flowers on separate plants; both must be present for the female to produce fruit.

Disease cycle	Stages of disease development and the effect on the host.
Dormant oil	A horticultural oil that is applied prior to bud break to target overwintering insects.
Drupe	Fleshy fruit with one or more stony seeds.
Evergreen	Plants that retain most of their leaves throughout the year.
Exclusion	The use of barriers to separate pests and diseases from susceptible plants.
Exit holes	The area of a tree or branch from where an adult wood-boring insect emerges.
Frass	Excrement produced by insects and other arthropods.
Fungus	A multicellular organism lacking chlorophyll, such as mold, mildew, smut, or rust.
Gall	Swelling or outgrowth of plant tissue, often formed in response to the action of a pathogen or other pest.
Galleries	Etchings in the wood formed from the larvae of wood-boring beetle feeding and activity.
Girdling	Injury to the bark, cambium, and sapwood that completely encircles the trunk or branch of a tree.
Gummosis	The reaction of a tree to outside stimuli like weather, pathogens, or insects, resulting in the discharge of a gummy substance.
Herbicide	A pesticide designed to control or kill plants.
Honeydew	A waste product excreted from sap-sucking insects, such as aphids, mealybugs, whiteflies, and soft scales.
Horticultural oil	Highly-refined oil used to control soft-bodied insects and insect eggs in the summer and the dormant season.
Host	A plant or animal that provides nourishment for another organism.

Inflorescence	The arrangement of flowers on a plant.
Lanceolate	Leaf shape that is longer than wide, with the widest point below the middle of the leaf.
Larvae	The immature stage of an insect that goes through complete metamorphosis.
Least toxic	Pest management products and techniques that have low or no toxicity to humans or are formulated and/or applied in a manner that minimizes exposure to humans and other nontarget organisms.
Lenticel	Pores in the bark of woody plants that allow gases to pass between the outside atmosphere and the interior of the plant.
Microorganism	An organism of microscopic size, such as a bacterium, virus, or fungus.
Monitoring (scouting)	Regular collection of information related to the activity, growth, development, and abundance of organisms or other factors.
Monoecious	Having both, male and female flowers, on the same plant.
Mosaic	A symptom of a plant viral disease that displays regular, light green, or yellow patches of tissue on leaves.
Mulch	A layer of material placed on the soil surface to prevent weed growth and reduce moisture loss.
Natural enemy	An organism known to control a pest species, including a predator, parasitoid, or pathogen.
Necrosis	Death of plant tissue accompanied by dark brown discoloration usually occurring in a well-defined part of a plant.
Necrotic	Dead or discolored brown plant tissue.
Nutlet	A small nut.

Nymph	The immature stage of an insect that goes through simple metamorphosis.
Opposite leaf arrangement	Two leaves are paired at the same node, one on each side of the stem.
Organic	A production or management system that utilizes fertilizers and pesticides that are naturally derived; a compound that contains molecules of carbon.
Ovate leaf	Egg-shaped leaf that is broadest at the base.
Overwinter	A stage of reduced activity and metabolism for an insect during the dormant season.
Palmate	Pattern of leaf veins radiating from a common point at the base of the leaf to the tips of the leaf lobes or leaflets.
Panicle	A branched flower cluster or inflorescence where flower stalks attach individual flowers to the stem.
Pathogen	A microganism capable of causing disease. Examples: fungi, viruses, and bacteria.
Perennial	A plant that can live three or more years and flowers at least twice.
Persistent	Attached to the plant beyond the usual time of falling.
Pest	An organism that causes a problem to humans concerns. Examples: insects, mites, pathogens, nematodes, plants, vertebrates, microbes.
рН	Numerical designation of acidity and alkalinity.
Phenological	Related to the stages of the life cycle of a plant. Examples: bud break, leafing out, or flowering.
Phloem	A layer of living cells below the bark responsible for transporting nutrients and plant food compounds; the innermost layer of bark.
Pinnate	A compound leaf that has leaflets arranged on either side of a common stalk, sometimes in pairs opposite each other.

Predator	An animal that feeds on other living organisms.
Preventive insecticide	A pesticide applied to inhibit the infestation of insects on susceptible trees or woody ornamentals.
Pupa	The stage of an insect between the larva and the adult that is primarily inactive and does not feed.
Resistance	A change in the sensitivity of a pest population to a pesticide, which results in a failure of the pesticide to control the pest.
Samara	Dry, winged fruit that does not split at maturity.
Sapwood	The living outer portion of the wood between the cambium and heartwood. $$
Scorch	Burned appearance of leaf edges caused by either environmental factors or infection.
Sensescence	Aging or death of plant tissue.
Serrated	Leaf margin with continuous, forward-pointing teeth.
Sign	The pathogen or its structures or products that are visible
3	on a host plant.
Simple leaf	on a host plant. An undivided leaf where the blade is not divided into leaflets.
	An undivided leaf where the blade is not divided
Simple leaf Simple	An undivided leaf where the blade is not divided into leaflets. An insect's change in form during development that
Simple leaf Simple metamorphosis	An undivided leaf where the blade is not divided into leaflets. An insect's change in form during development that involves egg, nymph, and adult stages. A pattern of insect damage that involves chewing mainly on one side of the leaf while also leaving the

Spike	A flower cluster or inflorescence that is not branched; each flower is attached directly to the main stem with no stalk.
Stippling	Small, white flecking injuries to leaf surfaces due to sap-feeding insects.
Stomata	Tiny pores in plant leaves and needles that facilitate gas exchange.
Sunscald	Trunk and limb tissue injury resulting from rapid temperature changes, most commonly occurring in the winter.
Symptom	Internal or external reaction of a plant as a result of disease or injury.
Systemic	A pesticide that is absorbed through the leaves and roots of the plant and moves within the plant. $ \\$
Target pest	A pest species that a control action is intended to destroy.
Threshold	A set level of insect or disease infection that must be reached before treatment is required. Examples: economic or aesthetic thresholds.
Two-ranked	Leaves or needles arranged in two vertical lines on opposite sides of the stem.
Two-valved	Fruit splits down both sides when ripe.
Vector	An organism able to transport and transmit a pathogen to a host.
Whorled leaf arrangement	More than two leaves are found at the same node.
Wilt	The loss of water from leaves, causing collapse.