





Master Gardener Recommended Horticulture Best Management Practices

Practices that should always be recommended:

	Test the soil to learn the pH and nutrients already present Group plants with similar needs (water, fertilizer, sun) for easier		
	maintenance Fertilize based on a soil test and at the appropriate time of year Identify plant problem and severity of damage before choosing a control Read and follow all directions on pesticide labels Right Plant, Right Place		
Sc	pil		
	Test the soil to learn the pH and nutrients already present		
	Before undertaking construction projects make a plan to preserve soil structure as well as root systems of mature trees		
	Determine soil drainage capacity before planting		
	Use compost to improve soil structure and fertility in lawns and gardens Prevent erosion by maintaining vegetative cover using mulch, and correcting		
	drainage problems Select plants for the landscape that will grow in the existing soil		
Tr	ees/Shrubs		
	When adding trees/shrubs to the landscape, select trees and shrubs that will grow in the conditions (soil pH, sun or shade, etc.) of the landscape		
	Plant trees/shrubs in holes that are 3-5 times the width of the root ball, and slightly less the height		
	Mulch only 2-3 inches high, and 4-6 inches away from the trunk of the tree/shrub		
	Select trees/shrubs whose mature sizes will fit the scale and size of the landscape		
	Maintain healthy plants by meeting their cultural requirements with the goal of using less pesticides		
	Avoid planting invasive species; instead choose plants, especially native plants that minimize maintenance and increase habitat.		
	Use no soil amendments in individual planting holes of new plantings In times of low precipitation irrigate landscape plants deeply and infrequently, at a rate of 1" per week		
Turf			
	Test the soil to learn the pH and nutrients already present		
	Determine soil drainage capacity before planting Maintain desirable pH (6.2-6.5) for turf grass through regular soil testing		

	Eliminate turf in shady areas where it is difficult to grow
	Use plants or mulch to conserve water, suppress weeds and prevent soil
	erosion
	Measure your turf's square footage – don't guess!
	Re-test your soil every 3-5 years
	Follow the 1/3 mowing rule Never remove more than one-third of the leaf
	blade at any mowing event
	mowings. Wet grass tends to dull blades. Mowing with a dull blade also
	contributes to lawn diseases.
	Avoid mowing under drought conditions or when the leaf blades are wet.
	Return grass clippings back to the lawn it counts for up to 30% of a lawn's
	nitrogen requirements for the year.
	When selecting plants, consider the site's conditions (sun/shade, moist/dry,
	pH, growing space available) and the landscape plan.
	of using less pesticides
	Core-aerate the lawn in late August-early September or mid March-mid April.
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	release) formulation rather than a quick release formulation to prevent
_	fertilizer runoff.
	Fertilize based on soil test
	 Cool season grasses-Fertilize no more than 2 pounds of Nitrogen per 1,000 square feet TOTAL in the Fall; applying no more than 1 pound of
	Nitrogen every 30 days. Optimal time is September through November.
	Fertilize no more than 1 pound of Nitrogen per 1,000 square feet TOTAL
	in the spring. Optimal time is May 15-June 15.
	o Warm season grasses-Optimal time for fertilizing is June, July and August.
	Fertilize no more than 1 pound of Nitrogen per 1,000 square feet per
	application. With no more than 3 lbs of Nitrogen per 1,000 square feet
	TOTAL for the season
	Apply lime based on a soil test.
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	nnuals, Perennials, Bulbs
	Test the soil to learn the pH and nutrients already present
	Determine soil drainage capacity before planting
Ц	Avoid planting invasive species; instead choose plants, especially
_	native plants that minimize maintenance and increase habitat.
	Achieve a low maintenance garden by planting natives
_	Group plants with similar needs (water, fertilizer, sun) for easier maintenance
	Use plants or mulch to conserve water, suppress weeds and prevent soil erosion
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	Maintain healthy plants by meeting their cultural requirements with the goal of using less pesticides
	When adding plants to the landscape, select ones that will grow in the conditions (soil pH, sun or shade, etc.) of the landscape
	In times of low precipitation irrigate landscape plants deeply and infrequently, at a rate of 1" per week
	roundcovers
	Test the soil to learn the pH and nutrients already present
	Determine soil drainage capacity before planting Select a groundcover for the conditions (sun/shade, moist/dry etc.)
	Group plants with similar needs (water, fertilizer, sun) for easier
_	maintenance
	Use plants or mulch to conserve water, suppress weeds and prevent soil erosion
	In times of low precipitation irrigate landscape plants deeply and
	infrequently, at a rate of 1" per week
Ve	egetables
	Rotate crops to avoid the build up of pathogens and pests in the garden
	Test the soil to learn the pH and nutrients already present
	Determine soil drainage capacity before planting
_	Utilize companion planting/intercropping to attract beneficial insects and to take advantage of symbiotic biochemical and cultural benefits
	Use cover crops/green manures to improve soil nutrients and structure
	Practice right plant, right place, in order to take advantage of garden
	microclimates- hot areas, light angles and moisture sinks, when planning your
	garden layout.
_	Identify insects (friend or foe), diseases or weeds and susceptible life cycles and evaluate the extent of the problem before taking remedial action (using
	the least toxic alternative).
	Improve compacted soil by aerating, double digging
	Select cultivars of plants and seeds that are bred for resistance and tolerate
	local conditions.
Ir	rigation
	In times of low precipitation irrigate landscape plants deeply and
	infrequently, at a rate of 1" per week
	Irrigate early in the morning, rather than late at night, to minimize evaporation losses and allow the grass to dry off before evening.
	Irrigate deeply and infrequently while avoiding runoff. Light, frequent
_	watering encourages shallow roots.
	Calibrate your irrigation system to deliver approximately 1 inch of water per
	week. Let cool season grasses go dormant in summer.

Cc	ompost
	Top-dress existing lawn with ¼" of compost to improve the soil structure of clay soils. A simple formula to calculate how much compost is needed is: Area to cover (square feet) X depth of compost (inches) X 0.0031= compost needed (cubic yards)
	In late spring, add about 1 inch of compost around the trees and shrubs. Cover with a mulch of shredded pine needles, straw, bark chips, or leaves 2 to 3 inches deep.
	In the fall, spread about 2 inches of compost over your entire garden and work it 6 to 8 inches into the soil
In	sects
	Identify the pest and susceptible life stages before you treat with a pesticide Maintain healthy plants by meeting their cultural requirements with the goal of using fewer pesticides
	Monitor plants in the landscape regularly to recognize when pests are present Learn which insects are common to the plants growing in your
	landscape/garden. Reduce pest populations by hand removal and regular clean up Establish thresholds for acceptable levels of pest infestation
Di	seases
	Learn which diseases are common to the plants growing in your landscape/garden.
	Look first for ways to improve cultural conditions as a means to reduce plant disease.
	Maintain healthy plants by meeting their cultural requirements with the goal of using less pesticides
	Monitor plants in the landscape regularly to recognize when pests are present
W	eeds
	Identify weeds before using a chemical control. Decide which species you can live with and which species you want to control. Contact the Extension office for identification, appropriate timing and central recommendations.
	office for identification, appropriate timing and control recommendations. Use plants or mulch to conserve water, suppress weeds and prevent soil
	erosion Minimize the conditions that produce more weeds than you are willing to
	tolerate Avoid tilling as it exposes weed seeds deep in the soil to favorable growing
	conditions. Hand-pull weeds or use spot herbicide treatments where possible. Apply pre-emergent for summer or winter annual weeds at the correct time for most effective control. Choose a product that does not contain fertilizer.

Read the label; many products require a second application or need to be watered in to activate.

W	ildlife Control		
	Identify species before you choose a control Remove food, water, and shelter sources that attract and harbor pests Combine tactics for the best control strategy Encourage success of natural predators Seek professional assistance if problem persists		
St	ormwater Management		
	Remove debris from storm drains regularly, and clear snow from drains Clean parking lots and paved areas of leaves, trash and sediment Reduce the amount of road salt used in parking lots and walkways, or use ice melt, sand, kitty litter, cinders, ashes or other alternatives, but not fertilizer		
	Clear snow to the lower end of the paved areas Educate employees/residents on proper storage, handling and disposal of potentially hazardous wastes		
	Collect and recycle hazardous waste, waste oils, solvents, etc.		
	Store potential pollutants inside or cover Minimize the amount of material stored by implementing "just enough" and "just in time" purchasing		
	Practice preventive maintenance to reduce leaks, spills		
	Consult resources to ensure that pruning is done at the correct time of year for a specific plant Do maintenance pruning to remove dead, diseased or problem branches as soon as they are found to keep trees and shrubs healthy Select the proper pruning tools for the task for the most effective results In the future, select shrubs with maximum space requirement at maturity in mind so that only thinning pruning cuts will be needed to promote healthy, attractive plants		
In	Indoor plants		
	Identify plant problem and severity of damage before choosing a control Prevent over-watering by watering plants only as needed instead of watering on a schedule.		
	Select houseplants whose growing (light and temperature) requirements meet those in your home		
	Add humidity to the air ion your home using a pebble tray filled with water		

Propagation ☐ Use sterile media and containers for propagation ☐ Obtain seeds and cutting material from a reputable, disease free source ☐ Harden off plants by reducing moisture and temperatures gradually ☐ Avoid over watering for optimal root and plant growth ☐ Familiarize yourself with propagation/growing requirements for each variety you want to grow	For optimum growth fertilize house plants once a month during the warm season.
YOU WAITE TO GLOW.	Use sterile media and containers for propagation Obtain seeds and cutting material from a reputable, disease free source Harden off plants by reducing moisture and temperatures gradually Avoid over watering for optimal root and plant growth

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