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Master gardener manual



MSU Extension Master Gardener Program After Year One

Congratulations! You've successfully completed the requirements to become certified as an MSU Extension Master Gardener (EMG) or have re-certified to maintain your active MSU Extension Master Gardener status. Thank you for being part of the MSU Extension Master Gardener Program! We truly appreciate your countless contributions to improve lives and enhance communities through educating the public about science-based, environmentally sound gardening practices.

Below, you will find important information to maintain your status as a certified MSU Extension Master Gardener.

VOLUNTEER ACTIVITIES YOU CAN COUNT TOWARD YOUR 20+ HOURS REQUIREMENT

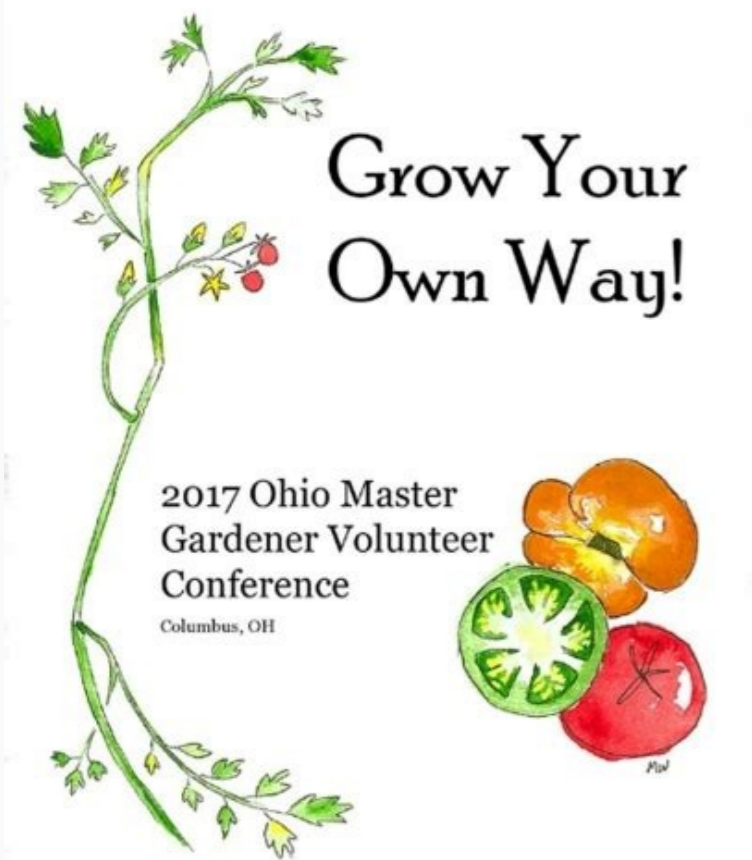
Mission: To further the land grant university goal of disseminating scientifically based information via a network of trained volunteers who receive support and guidance from MSU Extension to educate Michigan residents on the most current and environmentally sound horticulture information.

The MSU Extension Master Gardener Program® encompasses two major functions to meet this mission: To provide instruction in basic, research-based horticulture science to motivated and active gardeners through an adult (18 years or older) educational program offered through MSU Extension.

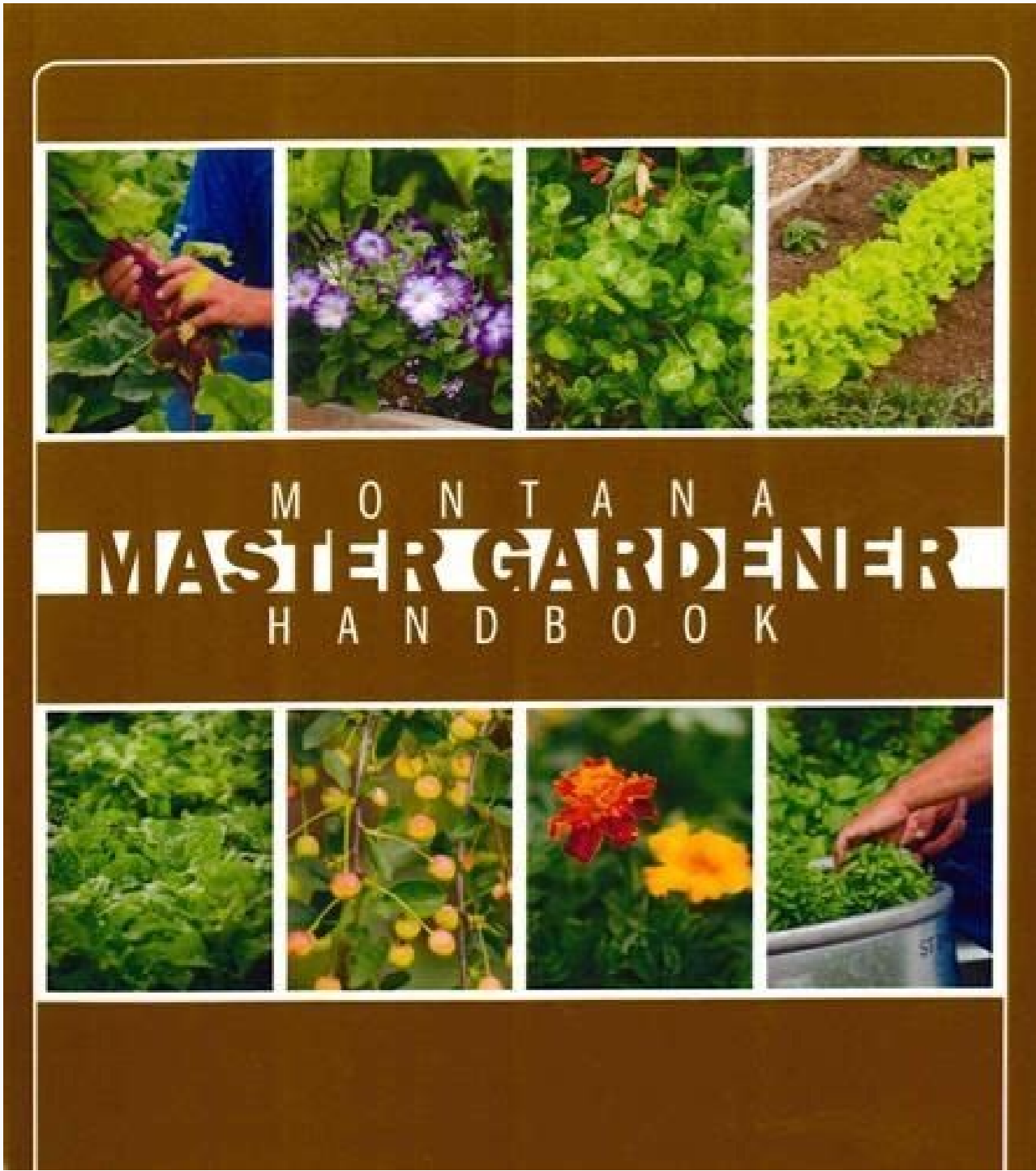
To provide MSU Extension with trained gardeners who will educate others in the community about environmentally and economically sound practices through horticulture-based volunteer activities.

WHAT COUNTS?

- YES: Educating the public with science-based horticulture information at a plant sale that financially supports the Program.
 - NO: Volunteering at a plant sale for a nonprofit or other organization, helping with setup, carrying, advertising, cashing, etc.
 - YES: Organizing, managing, setting up, tearing down, or performing administrative duties for a pre-approved EMG informational booth at a garden-related event.
 - NO: Organizing, managing, setting up, tearing down, or performing administrative duties for a non-approved gardening-related event.
 - YES: Overseeing the removal of invasive species and providing a science-based public presentation describing Michigan's invasive species and their effect on the environment. Guiding workers and teaching them how to recognize and remove invasive species.
 - NO: Volunteering for an event to provide labor to remove invasive species. (If you are being taught how to identify and remove invasives, you could record hours for education.)
 - YES: Recording hours when volunteering for a nonprofit organization or garden club where the overall event or activity provides EMG curriculum-related education and you are identified as an EMG.
 - NO: Serving on a garden club and other nonprofit board, providing administrative duties, or providing labor of any type that does not directly support public education related to EMG curriculum-related subjects.
 - YES: Weeding and maintaining a butterfly garden at a location that provides educational opportunities through presentations, handouts, signage, etc. to adults, youth or tour groups.
 - NO: Maintaining a butterfly garden at a place of business, worship, or nonprofit where there is no public education provided.
 - YES: Planting flowers or landscaping public areas and also providing education to the public.
 - NO: Planting flowers in public spaces with no public education component.
- ALSO, NO: Serving on a non-EMG association board, being paid to garden or volunteer at a nursery, greenhouse or private home. If in doubt, call your local coordinator, that's why we are here. You are in the D13 District and your central office (269-383-8815) is in Kalamazoo, Michigan.



Volunteer Registration & Protection



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Where do I get earth for my lofty beds? Spring and fall have short, cold days, so the vegetables that perform best during these times are called cold season annuals. Summer is hot with long days, and the vegetables that perform best during this season are called annuals, hot season. To include beets, broccoli, Brussels sprouts, cabbage, carrots, collards, kale, collardos, mustard, onions, peas, potatoes, radishes, rattan, spinach, chard and turnips. Ideal storage conditions are a temperature of 55°F and a relative humidity of 85%. After the soil heats up in the spring, organic padding can be applied to a depth of 2 to 4 inches around well-established plants. To prevent soil erosion, gently slide the sides of the bed. Read more about "Diseases" in Chapter 5 and "Insects" in Chapter 4. Mustard (0.33 to 0.67 pounds). Summer pumpkin. Many vegetables thrive in containers, and container gardening is ideal for those with limited outdoor space. Or floor can be ordered by the cubic courtyard of a landscaping company. Heredity vegetables come in a variety of colors, flavors and textures. If you are making traditional garden rows, do them directly to help with growing, weed management, and harvesting. Avoid overcrowding of vegetables, which decreases air movement and increases humidity, perfect conditions for many diseases. However, it is better to reject a pallet without information on origin and treatment. Therefore, the seed produced in the current season, a sweet pepper that may contain capsaicin, which causes heat, and your sweet pepper might have a hot flavor. Intensive planting technique of three sisters. Maintenance of As with other important hobbies and tasks, it is useful to keep a diary or a record of what was done and how it worked. Within each square you can grow many vegetables. Hybrid seeds are often more expensive than open-pollinated. If you're an adventurous chef, try planting They are unusual or expensive to buy in the market, such as broccolini, kale or shallots. The gardens in a row allow the use of a tractor and a labrador for the tasks of the garden (Figure 16 "10). Some beneficial insects, such as murderous insects and predators, have been seen feeding from Kudzu insects. The posterior pruning could promote the growth sensitive to frost. Then take a sample and send it to the Department of Agriculture and Consumer Services of the NC (NCDA & CS) for a soil test. Choose a site that receives at least 6 hours of direct sun on the day. Carrots (0.5 to 0.8 pounds). Many cultivators fertilizes with hardwood bark or a bark mix and serrAm. Call season crops planted at the end of spring grow to the first frost. At the same time, you could interplate a perennial border with kale and Swiss chard, cultivate herbs in containers in your backyard, and produce hydroponically microdes inside your home. Read the NC State Extension AG-439-78, Minimizing Risks of Soil Contaminants in Urban Gardens, for more information on urban land pollution. To help break the cycle, do not sow no family culture of beans next year. Collards (0.33 to .67 pounds). Most of the seeds remain viable for several years in a freezer. For a family of four people, a 625-square-foot area should be the right space to provide most of the products necessary during the growing season. In summary, any of these types and garden techniques can be used in isolation or combined to create a garden that works better for a given space. Are they completely composted? To calculate, how many cubic meters of soil needs, consider that a meter cubic floor is: 3 feet x 3 feet x 3 feet = 27 feet cubic Finding out how many cubic feet needs in a raised bed, multiply the length by the width and depth of your bed raised (convert all measurements to feet). Garden through the spring of the year. Red cabbage. Choose more large pests like beetles and caterpillars. Tomato plants can produce produce fo6trojam7ht ylpus nc deb desiar toof-8 yb toof-4 en,ylsprep detnalp nehW ?tnalp I dluoahs peed woH.keew a retaw fo hcni 1 steg ti os esoh rekaos a htiw nedrag ehretaw l: noitagirrI. emit gnitnalp ta ro erofeb yltrhs ,tset lios a yb dednemecr fi, reziltref ylpA.(73IRiziltrefA.)73AIA6101Steufu(:NuRetut) rehtegot depmule era stcinsi nworb dna evilo delttum, eraugs, teeb dribidal a fo ezis et tuba, lams ynaM:sevah hh nO:sengohtap fo ngiS.thgil gnidulcxe yb noitalupop diw ehtecuder dna na nosaes gniworg hh nylrae erutarepmet lios esaercki nac, lios ehtiw tcatnoc doog ni semoc taht gnitehs citsa hcus, sehclum sinagroni .ylraoishsvsco, reksvscio, rehsgo tAsniR.rucco smelporpArutuNehw no kcab kool of sdrocer evah uoy os nedrag ruoy ni stieve reto dna sgnithgus tcesni hFoCart peek of lanruoj nedrag a detrats uoY.(6 petS) sevaeIT no nees ecansbts ethiwEhceneh,sgub uzduk yb egamad swlof ylnommoc dlom tytoos

Introduction to Gardening and Plant Care

When you begin your gardening journey, it's essential to understand the basics of soil, water, and light. These three factors are the foundation for any successful garden. Soil provides nutrients and support for plant roots, while water and light are crucial for photosynthesis and growth.

Soil and Fertilization

Soil is the most critical component of your garden. Different plants have different soil requirements. For example, some plants prefer acidic soil, while others thrive in alkaline conditions. Regular fertilization is also important to provide your plants with the nutrients they need to grow.

Water Management

Proper watering is key to healthy plants. Overwatering can lead to root rot, while underwatering can cause wilting. The best way to determine when to water is to check the soil moisture level. If the top inch of soil is dry, it's time to water.

Light and Temperature

Light is essential for photosynthesis, the process by which plants convert energy from sunlight into food. Different plants require different amounts of light. Some are full sun, some are part shade, and some are shade tolerant. Temperature also affects plant growth, with most plants thriving in temperatures between 60°F and 80°F.

Plant Selection and Care

Choosing the right plants for your garden is a crucial step. Consider factors like soil type, light, and water when making your selections. Once you've chosen your plants, provide them with the care they need to thrive. This includes regular watering, fertilization, and pest management.

Pest and Disease Management

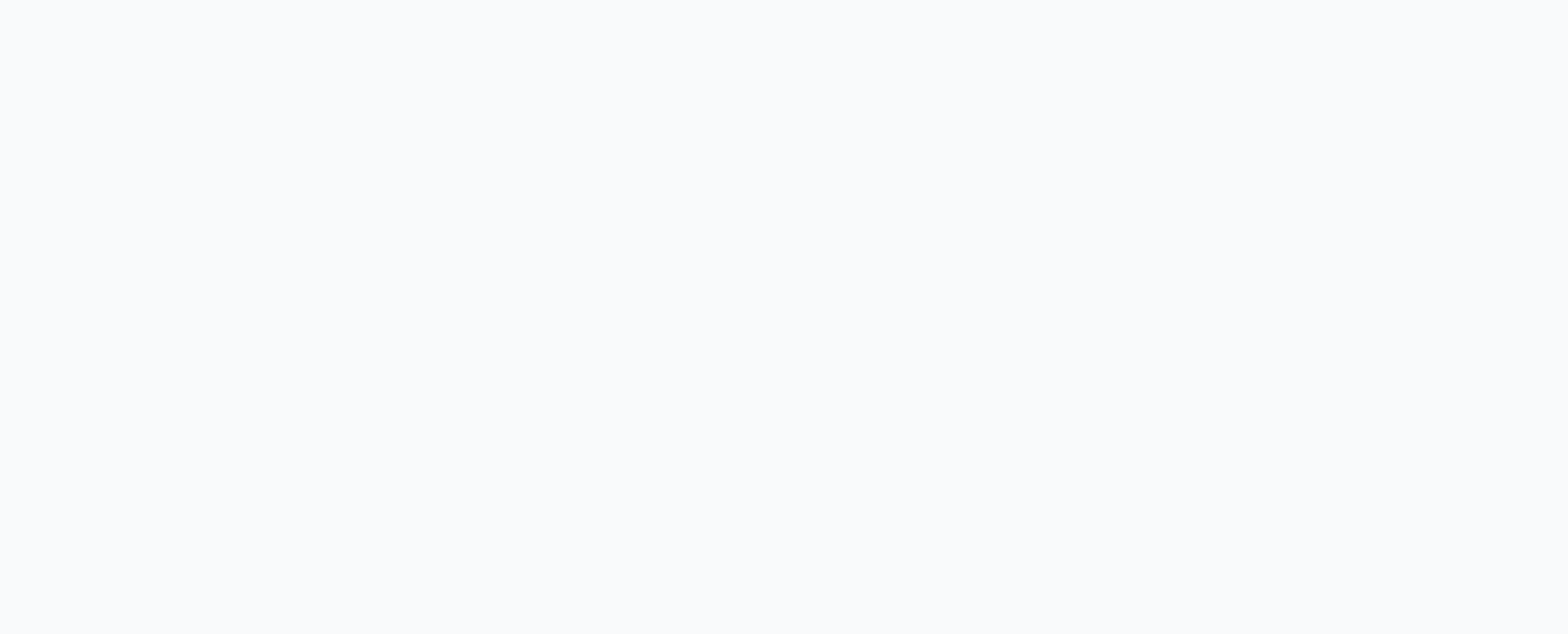
Pests and diseases are common in gardens, but they can be managed with proper care. Regular inspections can help you catch problems early. Natural pest control methods, such as companion planting and hand-picking, can be effective. If you do need to use pesticides, choose organic options whenever possible.

Harvesting and Storage

Knowing when to harvest your crops is essential for the best flavor and quality. Different plants have different harvest times, so it's important to know your crops well. Proper storage techniques can help you keep your harvest fresh for longer.

Conclusion

Gardening is a rewarding and fulfilling hobby. By understanding the basics of soil, water, and light, and providing your plants with the care they need, you can create a beautiful and productive garden. Remember to enjoy the process and take your time. Gardening is a journey, not a destination.



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