



MASTER GARDENER VOLUNTEER MANUAL

OBJECTIVES

This guide will help you answer the following questions:

- What is the Iowa State University Extension and Outreach Master Gardener program?
- What is the connection to Iowa State University Extension and Outreach?
- Who can become a Master Gardener?
- What can Master Gardener volunteers do?
- What are the responsibilities of Iowa Master Gardeners?



Photo by Coleen Myers

Learn more about the Iowa Master Gardener program:

Visit the Iowa Master Gardener website at www.extension.iastate.edu/mastergardener/

Find us on Facebook: www.facebook.com/iamastergardeners

Follow us on Twitter: https://twitter.com/mgardener_ia

Sign up for *News & Views*, the Iowa Master Gardener newsletter:
<http://www.extension.iastate.edu/mastergardener/newsletter-archive>

Contact the Iowa State University Extension Master Gardener Staff:

Coordinator Susan DeBlieck, mgardener@iastate.edu

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ISU EXTENSION & OUTREACH'S MASTER GARDENER PROGRAM

MISSION STATEMENT

The purpose of the Iowa Master Gardener program is to provide current, research-based, consumer horticulture information and education to the citizens of Iowa through Iowa State University Extension and Outreach programs and projects.

The Master Gardener program is an educational and volunteer service organization of the Iowa State University (ISU) College of Agriculture and Life Sciences and ISU Extension and Outreach. Through the Iowa Master Gardener program, interested volunteers receive training in horticulture and environmental topics of special value to home gardeners.

In exchange for this training, Master Gardeners share their time and knowledge on approved projects within their communities. Through the leadership, instruction, and hands-on assistance provided by Master Gardeners, the broad resources of Iowa State University are extended to benefit Iowans at the local level and enhance the quality of life in Iowa communities.

Iowa State University Extension and Outreach is a partnership among campus-based ISU specialists and staff located in Ames, the United States Department of Agriculture, and local Extension districts. This partnership cooperates with local governments and citizens to extend information from the research done at the university to citizens throughout Iowa.

HISTORY OF THE MASTER GARDENER PROGRAM

Nationally the Master Gardener program began in 1972 in response to high public demand for horticultural information from local extension offices in the state of Washington. The pilot program provided interested individuals with specialized home garden horticulture training in exchange for providing volunteer assistance to extension service personnel in delivering individualized information to clients.

The successful program in Washington provided a pattern, which was eventually replicated in all 50 states, the District of Columbia, four Canadian provinces, and several other foreign countries. It is estimated that there are nearly 100,000 active participants in the Master Gardener program nationwide.

The Iowa Master Gardener program was first offered in Davenport, in Scott County in 1979 with a class of 17 trainees. More than 14,000 Iowans representing nearly all of Iowa's 99 counties have been trained as Master Gardeners since the inception of the program. In a typical year, training is offered in approximately 30 locations around the state, and between 300 and 400 new trainees participate in the program.

The Master Gardener program also has been used as a model for several other volunteer training programs, including the Master Woodlot Managers, Master Composters and Master Conservationists.



Photo by Susan DeBlieck

HISTORY OF IOWA STATE UNIVERSITY EXTENSION AND OUTREACH

Iowa State University Extension and Outreach is part of the Cooperative Extension Service. Congress established this national program in 1914 to distribute information developed by land grant universities and research stations to citizens. Iowa State University was part of Cooperative Extension from the very beginning.

For more details on the history of Iowa State Extension and Outreach go to <http://www.extension.iastate.edu/dubuque/page/extension-service-historical-perspective>.

For more information on the history of Iowa State University go to <http://www.public.iastate.edu/~isu150/history/history.html>

USING RESEARCH-BASED INFORMATION

Providing research-based information is at the core of Extension's work, purpose and mission. As Extension volunteers, Master Gardeners are expected to uphold university research-based findings even when the information is new or different from a volunteer's personal experience or opinion.

Master Gardener volunteers are provided with core course education, resources and other information founded on the research of ISU experts to help them and the public they assist to make informed choices. Volunteers work with gardeners of differing philosophies. While it is important to respect individual beliefs, Master Gardeners are expected to make recommendations based on scientifically defensible information from Iowa State University or other reputable sources. This is especially true in the case of use of fertilizers or pest control where the label is the law. Volunteers may answer homeowner questions, but must refer questions concerning commercial production or commercial pest control to an Extension staff person. While information from Iowa State University Extension & Outreach is always the first choice as a resource, information from other state extension services and academic sources may be used.

The internet gives Master Gardeners access to numerous resources. However, volunteers must reference websites that are reputable based on responsible research that preferably is academic, and appropriate to Iowa's climate, conditions, and cold hardiness zones.

STANDARDS OF BEHAVIOR

Extension Master Gardener volunteers are representatives of Iowa State University and their local county Extension program, and serve at the discretion of ISU. Just as it is a privilege for Extension to work with volunteers who offer their time and talents, it is a privilege—not a right—to be an Extension volunteer. Participants must understand and accept responsibility for their actions, words and deeds when volunteering on behalf of ISU.

Master Gardener volunteers are expected to review and abide by the standards of behavior as listed below. These important policies are designed to ensure the safety and wellbeing of all Master Gardener participants (audiences, staff, professionals, and other volunteers) and promote a positive, enjoyable experience for all. Extension volunteers are representatives of the Iowa State University and must conduct themselves accordingly.

Extension Master Gardener Volunteer Standards of Behavior:

1. Uphold volunteerism as an effective way to meet the horticultural education needs of Iowa citizens.
2. Accept supervision and support from extension staff while involved in the program.

3. Represent the local county program and the Iowa Master Gardener program with dignity and pride by being positive spokespersons and mentors for others.
4. Be courteous, civil and respectful, refraining from profanity and behavior that physically, verbally, or emotionally abuses, threatens or harms any Extension program participant.
5. Abstain from the use or the influence of alcoholic beverages or other controlled substances when interacting with the public as an Extension Master Gardener volunteer.
6. Comply with equal opportunity and anti-discrimination laws and the policies of Iowa State University Extension and Outreach.
7. Perform duties in a responsible, professional and timely manner.
8. Dress professionally and wear the Iowa Master Gardener nametag whenever serving as a volunteer.
9. Report immediately any threats to the volunteer's emotional or physical well-being to the county or state extension staff coordinating the Extension Master Gardener program.
10. Be responsible and accountable for personal actions.
11. Promote and support Extension Master Gardener activities and volunteer peers in order to develop an effective county and state program.
12. When applicable, operate machinery, vehicles, or other equipment safely and responsibly.

Failure to follow the standards of behavior listed above can result in termination from the program and loss of all privileges associated with the status of an Iowa Master Gardener volunteer. Should an issue arise, the volunteer will be placed on temporary leave, and the local Master Gardener coordinator will inform and work in concert with the state coordinator and/or program assistant to resolve the issue and determine what, if any, disciplinary steps need to be taken. While attempts may be made to correct disqualifying behavior, resolution may lead to reinstatement, reassignment of volunteer duties, reinstatement with limitations, or termination from the program. The volunteer may also be terminated immediately. The state coordinator must authorize any termination from the program.

NETIQUETTE

"Netiquette" refers to etiquette displayed while using the internet. As more web-based tools and programs are used to communicate and share information electronically, it is important that volunteers follow good netiquette standards. Inappropriate communication or misuse of the internet as a volunteer can lead to restrictions on using Master Gardener internet-based tools and programs. For more detail consult [Appendix C](#).

PUBLIC BENEFIT OF THE EXTENSION MASTER GARDENER PROGRAM

In 2018, Iowa Master Gardeners reported more than 113,000 hours of volunteer service. According to the [Independent Sector](#) the value of this service to the state of Iowa is more than \$2.7 million dollars. By another measure, the hours of Master Gardener volunteer service are equal to the work of 56 full-time ISU Extension and Outreach staff.

Other societal benefits are more difficult to measure, but are significant nonetheless. Among the thousands of hours of volunteer service, are numerous hours of teaching adults and youth about sustainable gardening techniques that lead to a safer, cleaner environment, economic sustainability, strong, vibrant communities, better nutrition for consumers of the produce grown in home and community gardens, and a better quality of life.

As public organizations, ISU Extension and Outreach and the Master Gardener program have a responsibility to undertake projects and activities that deliver public benefit or value. Public value accrues when a program improves the quality of life of those who do not directly benefit from the program. For example, if you teach 20 homeowners to build rain gardens and they do so, the amount of runoff in local waterways is reduced. The public benefit is

cleaner water for the general public. When planning Master Gardener projects for your local program, be intentional about selecting those projects that provide public benefit in addition to personal benefit for the program participants. More and more, stakeholders request public benefit from programs they fund. Do your local projects have public benefit?

PROGRAM FUNDING

Funds for the Iowa Master Gardener Program come from core training fees, continuing education webinar fees, conference registration fees, and sales of Master Gardener promotional items such as shirts. While ISU Extension and Outreach indirectly supports the Master Gardener program through staff salaries, no direct line item budget exists for Iowa Master Gardener program operational expenses.

The Master Gardener management team seeks external grants for specific programs that involve Master Gardeners. Similarly, many local Master Gardener programs apply for and obtain grants for specific projects. In addition, fund-raising events such as plant sales and class fees help support local Master Gardener groups.

The table below outlines various Master Gardener funding sources and where those funds are used.

Funding Source:	What the Funding Source Supports:
Iowa State University Extension & Outreach and Department of Horticulture through Federal and state funds	Master Gardener state coordinator and assistant coordinator positions; state extension faculty positions that support the Master Gardener program; operational expenses (facilities) for the above positions
State Extension Master Gardener office through core course fees; ProHort class fees; continuing education class fees; sale of promotional items; conference fees; grants; donations	Operational expenses for the state Master Gardener office and staff including production of educational materials for volunteers; volunteer continuing education classes, conferences, events; volunteer recognition; program promotion and marketing; newsletters; telephone, printing, postage and materials handling fees; IT support for the core course and webinars; some state coordinator and program assistant travel costs; support for selected educational programming activities.
County ISU Extension and Outreach funds based on county Extension budget allocation	Local extension staff and Master Gardener coordinator positions; county extension support staff positions; county extension office operations.
Local Master Gardener Program: local program generated fees through classes; horticulture events; sales, gifts, grants; donations.	Local Master Gardener educational events, classes, etc.; local Master Gardener operations; possibly local Master Gardener revenue share toward local extension staff position and/or operations

MASTER GARDENER STAFF AND SUPPORT

The Iowa Master Gardener program is supported by an array of Iowa State University Extension and Outreach staff. These include state Master Gardener program staff, Department of Horticulture faculty, Extension horticulture and pest management professionals, and county level staff. The Iowa Master Gardener program receives guidance and support from the State Master Gardener Advisory committee.

STATE STAFF

- Susan DeBlieck, Master Gardener state coordinator is responsible for scheduling the Master Gardener training sessions and assuring that the training materials are accurate. She works with ISU faculty and extension staff to set objectives and prepare the training materials. DeBlieck is responsible for statewide communications and social media as well as supporting county coordinators.

ISU EXTENSION AND OUTREACH EDUCATORS & FACULTY

- Select faculty members with Extension appointments teach and provide expertise to support the Master Gardener program. The specialists are housed not only in the Department of Horticulture, but also in the Departments of Entomology, Agronomy, and Plant Pathology & Microbiology, See Appendix D for a listing of Extension Specialists.

COUNTY ISU EXTENSION AND OUTREACH STAFF

- Iowa has 100 Extension & Outreach county offices. To find out who the Master Gardener coordinator is for your county, please contact the local county Extension and Outreach office.
<http://www.extension.iastate.edu/content/county-offices>

STATE MASTER GARDENER ADVISORY COMMITTEE

The State Master Gardener Advisory Committee provides advice and constructive input to the state Master Gardener staff members on policies for the program, judges Search for Excellence award applications, and assists with planning state and regional conferences. The group's objectives are to develop programming strategies and governing policies that are in the best interests of the Iowa Master Gardener program and its volunteers. Each member of the advisory committee serves as an ambassador of the Iowa Master Gardener Program by promoting its mission in word and deed as a volunteer and with particular attention toward communicating this mission to local, county, regional and state officials in order to assure the continuance and effectiveness of the program throughout the state.

The advisory committee meets at least twice per year. Membership consists of five Master Gardeners and five county coordinators representing five geographic regions of the state. In addition, an Extension & Outreach regional director and members of the state Master Gardener staff serve on the committee. For more details on the committee, including minutes from past meetings, see the State Advisory Committee website page <http://www.extension.iastate.edu/mastergardener/advisory-committee> . Additional information about the advisory committee is found in [Appendix A](#).

PROGRAM GUIDELINES, POLICIES & PROCEDURES

AGE REQUIREMENT

Any adult (18 years of age or older) with an interest in gardening is eligible to apply for Iowa Master Gardener training. A potential Master Gardener must demonstrate interest in gardening, enthusiasm for acquiring and sharing knowledge, and a sincere commitment to volunteerism and community betterment.

TRAINEE APPLICATION & SELECTION PROCESS

The application and selection process of an individual to become a Master Gardener intern is made at the local/county level. Individuals are selected based on applicants' interests, the need for volunteers in the local program, and the individual's successful completion of the application and selection process.

The process requires an individual to:

1. Complete a written application and submit it to the local county ISU Extension and Outreach office
2. Participate in an interview to help determine the individual's fit within the program, and how the program aligns with the applicant's interests in volunteering
3. Successfully clear the volunteer background check as required by ISU Extension and Outreach
4. Receive confirmation of selection including instructions for beginning the core course training
5. Complete an assessment of current knowledge of gardening and horticultural information

Completed application materials are confidential information and are to be held in a locked file in the county Extension office.

Generally, Master Gardeners participate in the program in their county of residence. In cases where a Master Gardener participates in a county program different from their county of residence, they use the county of participation for all reporting and identification purposes.

ISU EXTENSION AND OUTREACH MASTER GARDENER INTERNSHIP

After beginning the Master Gardener training the Master Gardener internship begins. During this period, interns must provide at least 40 hours of volunteer service on locally approved Master Gardener projects within their communities. Master Gardener Training applicants who do not wish to volunteer may pay a \$550 course fee instead of the regular course fee of \$195, and are considered a ProHort student not a Master Gardener trainee.

Following the completion of this volunteer service commitment, Master Gardener Interns are recognized as Iowa Master Gardeners. To remain active in the program, individuals must



Photo by Rachel Summy

complete a minimum of ten hours of continuing education and 20 hours of volunteer service annually after the year of internship.

CERTIFICATION & RE-CERTIFICATION

Following successful completion of the internship, the volunteer becomes an Iowa Master Gardener and is considered active. The volunteer receives a certificate, an official Master Gardener name badge and lapel pin with the Iowa Master Gardener logo. Active status is valid for one calendar year.

Recertification of active status as a Master Gardener requires the volunteer to sign an annual volunteer agreement and to complete and report a minimum of 20 hours of volunteer service by the end of the calendar year. The volunteer must also complete and report a minimum of 10 hours of continuing education during that year. Local Master Gardener programs may require additional service or education hours.

USING THE MASTER GARDENER TITLE

The title "Iowa Master Gardener" is to be used only and exclusively in the ISU Extension and Outreach Master Gardener Program. Iowa Master Gardeners are expected to identify themselves as Master Gardeners only when doing unpaid public service work for ISU Extension and Outreach-sponsored programs. Master Gardeners should not advertise or promote their places of business while volunteering as a Master Gardener nor solicit business because of their training as a Master Gardener. Appearing at a commercial activity, having association with commercial products, or giving implied university endorsement of any product or business is improper. ISU Extension and Outreach, of which the Master Gardener Program is a part, must be viewed as a source of unbiased, research-based information. However, an individual may list his or her Master Gardener education and volunteer service experience on a resume.

When performing Master Gardener activities, Iowa Master Gardeners are agents of Iowa State University. When it is necessary to make recommendations that include the use of pesticides, Master Gardeners must follow ISU and label recommendations. Master Gardeners are expected to give ISU-sanctioned recommendations and not rely merely on their own personal experience, that of others, or common garden folklore.

Experienced Master Gardeners may receive invitations to give educational presentations to various groups and organizations. Any payments or honoraria received can be accepted if offered at the discretion of the group or organization sponsoring the presentation. However, Master Gardeners *should not seek payment* for such activities. Many Master Gardeners contribute the honorarium money back to their local program to purchase reference materials or to support other local horticulture programs. It is appropriate for Master Gardeners to seek reimbursement from program sponsors for the cost of travel or materials needed to conduct the class.

VOLUNTEER CATEGORIES

MASTER GARDENER TRAINEE

- An applicant who has been accepted into the Master Gardener core course program or one who has not yet completed the core course, class on campus, and passed the core course final assessment is considered a Master Gardener Trainee.

MASTER GARDENER INTERN

- Volunteer-in-training who has successfully completed the local classroom sessions and class on campus segments of the core course training program and has passed the final class assessment with a score of 70% or higher
- May need to complete internship before taking on leadership roles in county
- Has access to all program & Extension resources, staff, website, education, events, etc.

INACTIVE MASTER GARDENER INTERN

- Volunteer-in-training who has not completed the 40-hour internship by the due date (December 31st of the year after the Master Gardener Training is completed)
- May reactivate by:
 - Logging 40 hours of volunteer service, and
 - Logging 12 hours of continuing education within 12 months.

ACTIVE MASTER GARDENER

- Successfully completed initial internship of 40 hours
- Annually fulfills and reports on-line a minimum of 20 volunteer service and 10 continuing education hours
- Signs the annual volunteer agreement (on the Volunteer Reporting System)
- Is eligible for volunteer activities
- Has access to all program & Extension resources, staff, website, education, events, etc.

INACTIVE MASTER GARDENER

- Has not reported the minimum required volunteer and/or continuing education hours during the past calendar year
- If the length of the inactive status is two years or less, may reactivate by completing a minimum of 24 hours of service and 12 hours of continuing education. If the length of inactive status is longer than two years, additional continuing education may be required to reactivate.
- Years in inactive status do not count toward years of Master Gardener service awards
- Has access to all program & Extension resources, staff, website, education, events, etc.

LIFETIME MASTER GARDENER

- Considered in good standing with the program at the time of such designation
- Has accrued 10 or more years and 1500 volunteer hours as an active Master Gardener
- May continue to volunteer and report hours as able, but is not required to report volunteer hours or meet minimum hours requirements
- Has access to all program & Extension resources, staff, website, education, events, etc.

HONORARY MASTER GARDENER

- o Someone who has contributed significantly to the local or statewide Iowa Master Gardener program, but who is not an active Master Gardener and may not have taken the Master Gardener core course

COMMUNICATIONS AND STATEWIDE VOLUNTEER OPPORTUNITIES

With thousands of Master Gardeners in Iowa and approximately 100,000 around the world, strong communication skills are important. Technology provides many tools for keeping interns informed and in touch with the program and each other while creating a supportive and helpful network.

WEBSITES, LISTSERVS, & SOCIAL MEDIA

- o Iowa Master Gardener Website –<http://www.extension.iastate.edu/mastergardener>
- o Master Gardener *News and Views* newsletter – Sign up to receive the monthly Iowa Master Gardener newsletter to stay up to date on what is going on around the state.
<https://www.extension.iastate.edu/mastergardener/newsletter-archive>
- o Iowa Master Gardener Twitter - https://twitter.com/mgardener_ia
- o Iowa Master Gardener Facebook – <www.facebook.com/iamastergardeners>
The National Extension Master Gardener program blog (<blogs.extension.org/mastergardener>) provides Master Gardener related articles from around the country.

TYPES OF VOLUNTEER OPPORTUNITIES

The focus of all Master Gardener projects should be education.

Projects receive the support of ISU Extension and Outreach and the local County Extension Council. Project selection is based on community need, availability of volunteers and educational impact. The opportunities for Master Gardener involvement are as varied as the individuals who are trained. Here are a few volunteer activities that might happen near you:

- Teaching community gardening classes and workshops
- Answering phone inquiries concerning home horticulture
- Assisting with county horticulture events
- Teaching and demonstrating horticultural techniques in demonstration, community, and school gardens
- Teaching youth and judging horticultural projects
- Providing media interviews and articles on horticulture projects
- Speaking to schools and youth groups on gardening topics
- Holding plant clinics at garden centers and farmers markets
- Representing the Master Gardener program at county and state fairs
- Organizing garden conferences and symposiums

ANSWERING HORTICULTURE QUESTIONS

When seeking information or answers to horticulture questions:

1. Search through materials from core course training or other Extension resources.
2. Search Extension's websites, national Cooperative Extension online databases, or other states' Extension websites.
3. Use the county office horticulture reference library.

4. Seek assistance from local Extension educators.
5. Seek assistance from regional or state Extension specialists when you've exhausted other sources.
6. It is okay to say, "I don't know, but I will find out."

STATE VOLUNTEER RECOGNITION

Master Gardener volunteers are recognized with name badges and pins to reflect their commitment and service. Milestones of recognition include total hours (i.e. 500, 1000, 2000, & 3000 hours), and years of service (10 years & 1500 hours for Lifetime Master Gardener). These awards are determined by the hours reported online by volunteers for each calendar year. Local Master Gardener coordinators are responsible to track milestones and request the recognition certificates and pins for presentation to individuals from the state Master Gardener office.

VOLUNTEER SERVICE AND CONTINUING EDUCATION HOURS

Ultimately, what counts as volunteer time is a decision made by the local coordinator, county extension director, and/or local advisory committee. However, Master Gardener activities should include an educational component, as opposed to activities that involve only garden labor or community beautification. Local coordinators should share local guidelines with trainees as a way to clarify expectations and ensure consistency in recordkeeping.

Many horticulture associations, clubs and societies can be educational and enriching for Master Gardener volunteers. Master Gardeners may volunteer for these other organizations and count these as volunteer service hours providing the following criteria are met:

1. The individual is clearly identified and volunteering primarily as an Iowa Master Gardener.
2. The activity is educational and not for profit.

Volunteer questions about whether an activity may be counted toward Master Gardener hours should be directed to the local coordinator.

Continuing education is expected to advance the Master Gardener's knowledge and understanding of horticulture. It must be factual, accurate, and provided by a source generally recognized as research based. Most training opportunities offered by educational institutions, public gardens, and education-focused gardening organizations meet this requirement. Sessions offered by entertainers, mass media and sales people are less likely to do so. Listening to radio programs, watching television programs, and reading books do not count as continuing education.

REPORTING VOLUNTEER HOURS ONLINE

Records of Master Gardener volunteer and continuing education hours are important for documenting volunteer status, recognizing milestones in a volunteer's history, and are an important part of ISU Extension and Outreach's annual reports to federal and state funding agencies ([see yearly reports here](#)). Data collected from online reporting is used to generate reports about Master Gardener impact and help illustrate the value of the program.

The Iowa Master Gardener program uses an online hours reporting system. It can be found at <http://mastergardenerhours.hort.iastate.edu/>. After setting up an account, volunteers use this tool to enter their hours by selecting from the drop down menu and specific volunteer activities. The volunteer year follows the calendar year; volunteer and continuing education hours are due by **December 31st** of each year. Volunteers are encouraged to report their hours throughout the year on an ongoing basis. Late submission of hours may not be included in state or federal reports about the Master Gardener program or count towards county volunteer hour summaries.



Photo by Marlene Olson

Please watch the how-to videos on using the Volunteer Reporting System here:

<https://mastergardenerhours.hort.iastate.edu/videos.php>

E-mail and internet access is required of all new interns to report their volunteer service hours. If a volunteer does not have a computer or internet access at home, it is their responsibility to work with the local county Master Gardener coordinator to receive in-person assistance in reporting hours at the county office or other site such as a public library.

REPORTING CONTACTS

The goal of asking volunteers to report contacts they make is to gain an accurate picture of the effectiveness of the program. Volunteers report the number of people they interact with as a Master Gardener, NOT the number of questions they answer. When several volunteers interact with an individual at an event such as a county fair, only one contact should be reported for all. While each volunteer reports his or her own volunteer hours for the event, the contact number should be reported only once.

Examples:

1. A local Master Gardener Horticulture Day draws a total of 320 people. This is the number of people that this program event reaches. Although people attend various classes taught by several volunteers throughout the day, only the total number of people attending the event should be reported. The local coordinator / leader or a designated volunteer reports the 320 people online when they report volunteer hours for the event.
2. Two volunteers answer questions at a plant clinic. During the day, 40 people bring plant samples and questions and both Master Gardeners work together to help the 40 people. The plant clinic is the Master Gardener service that reached 40 people. One Master Gardener may be responsible to report all 40 contacts or each Master Gardener may report 20 contacts. In the end, only the number of people who attended the clinic should be reported, in this case 40.
3. Three Master Gardener volunteers team up to teach a community education class on vegetable gardening. Twenty-four people attend the class. Only 24 total people should be reported. This can be done by one of the Master Gardener volunteers reporting 24 contacts, or each Master Gardener may report one-third of the attendees, in this case, eight people.

TV, radio, newspaper and magazine articles written by Master Gardeners: When volunteer activities involve the media, report the number of articles/broadcasts produced for a given media outlet. Then report the circulation or audience of that media outlet.

Examples:

1. A volunteer writes a monthly gardening column for a local newspaper. The circulation of the paper is 15,000, so report this one time as twelve articles with a circulation of 15,000.
2. A volunteer hosts a weekly one-hour-long radio show for eight weeks during the summer on a local station. The station has a listening audience of 45,000, so in this situation, report eight one-hour radio shows on a station with an audience of 45,000.

MY HOURS REPORT

The My Hours tab provides each Master Gardener with a list of logged Master Gardener volunteer and continuing education hours. It provides a summary of all hours volunteered over the Master Gardener's years of service.

Header	Definition
Vol Hrs	Volunteer Hours – number of volunteer hours entered for each date of service
Hrs Value	Hours Value – the dollar value of those volunteer hours (\$22.25 for each hour)
Edu Hrs	Continuing Education Hours – the number of continuing education hours
Contacts	Contacts – the number of people interacted with during the volunteer service hours
VER?	Verified? – Have the volunteer or continuing education hours been verified by the ISU Extension & Outreach county staff. County staff are required to verify hours in January of each year. This provides local oversight to make sure that entries logged by Master Gardeners are correct.

VOLUNTEERS TRANSFERRING BETWEEN STATES

TRANSFERRING TO IOWA FROM ANOTHER STATE

Active Master Gardeners trained in other states are welcome to become active volunteers in Iowa. Active Extension Master Gardeners who move to Iowa and decide they would like to be a part of the Iowa program must:

1. **Intent:** Contact the local county ISU Extension and Outreach staff to communicate their interest.
2. **Share:** Forward an e-mail to the Iowa State University Extension and Outreach county staff from your previous Master Gardener program coordinator. The e-mail should include the following:
 - Confirm that the individual has been an active Master Gardener in good standing to-date
 - The year the individual completed training and internship
 - Total years in the former program
 - Any additional information about the individual's volunteer history such as special certifications or leadership positions
3. **Background Check:** Submit payment to the ISU Extension and Outreach county office to complete the volunteer background check and order an Iowa Master Gardener name badge.
4. **Assessment:** Complete the 100 question Iowa Master Gardener open-book assessment with a passing score of 70/100.
5. **Optional:** Purchase the *Resource Guide for Iowa Master Gardeners* (MG 15) from the Iowa State University Extension Store.

Once an individual completes the above requirements, they may then assume the title, benefits and responsibilities of an active Iowa Master Gardener.

TRANSFERRING BETWEEN IOWA COUNTIES

An active Master Gardener in good standing may transfer to another county in Iowa. The process to do so is as follows:

1. **Intent:** Contact the local county ISU Extension and Outreach staff to communicate their interest.
2. **Share:** Forward an e-mail to the Iowa State University Extension and Outreach county staff from your previous Master Gardener program coordinator. The e-mail should include the following:
 - Confirm that the individual has been an active Master Gardener in good standing to-date
 - The year the individual completed training and internship
 - Total years in the former program
 - Any additional information about the individual's volunteer history such as special certifications or leadership positions
3. **Background Check:** Submit payment to the ISU Extension and Outreach county office to complete or renew the volunteer background check and order an Iowa Master Gardener name badge.
4. **Optional:** Purchase the *Resource Guide for Iowa Master Gardeners* (MG 15) from the Iowa State University Extension Store.
5. Current county coordinator: Contact state coordinator to request to update volunteer record in the Volunteer Reporting System to the new county.

IOWANS TRAINING IN OTHER STATES

Some Master Gardeners live part of the year in another state and participate at some level in that state's Master Gardener program. The following addresses some common situations.

- Volunteers active in two states: Master Gardener Volunteers may belong to more than one state program. However, they must fulfill all volunteer and education requirements in both state programs. Volunteer hours in one state cannot be counted toward the volunteer hours in the other state without special approval from one or both state coordinators.
- An Iowa Master Gardener volunteer who does not belong to a second state program, but volunteers for that program: A Master Gardener who belongs to the Iowa program may volunteer in some capacity in another state. However, these hours do not count toward required hours in Iowa without special approval from the state coordinator and local coordinator.
- Depending on the topic and possible application toward Master Gardener volunteer activity, continuing education hours earned in states other than Iowa may fulfill requirements in both states with permission from the local county coordinator or the state coordinator.

RETURNING TO THE IOWA STATE UNIVERSITY MASTER GARDENER PROGRAM

Former Iowa Master Gardeners who have been inactive or out of the program for two years or fewer may return to the program by completing a minimum of 24 hours of service and 12 hours of continuing education during the first calendar year of reactivation.

If the length of inactive status is longer than two years, additional continuing education may be required to reactivate. In addition, the following criteria must be met:

- Apply and be accepted into the local program including successfully clearing the volunteer background check required by Iowa State University Extension and Outreach.
- Complete the Master Gardener Core Course post-test online and pass with a score of at least 70%.
- Purchase of the current version of the *Resource Guide for Master Gardeners* (MG 15) is not required, but

is an option for a fee of \$39. Also, if a new Iowa Master Gardener name badge is needed, the local coordinator can order a replacement badge for \$6.

Once an individual completes the above requirements, he or she may assume the title, benefits and responsibilities of an active Iowa Master Gardener.

USING IOWA STATE UNIVERSITY EXTENSION AND OUTREACH BRANDING AND LOGO

Iowa State University claims the right and ownership to the names, symbols, graphics, logos, trademarks and service marks associated with the university. Most of ISU's marks are federally registered and all are monitored to ensure proper use and protection. The marks listed at <http://www.trademark.iastate.edu/marks/> cannot be used without permission from ISU Trademark Licensing and/or a license agreement in place with the Licensing Resource Group. Generally, external use of the logos must be licensed except for use by news media, supportive messages, printed publications for event promotion, or materials for internal or educational use. (<http://www.policy.iastate.edu/policy/trademark/>).

The most recent Iowa Master Gardener logo may be used in promotional materials, brochures and program materials directly associated with events managed by local Master Gardener groups. Use of previous Master Gardener logos is not allowed. However, use of the current logo on clothing, nametags, awards or other similar items requires prior approval from the Iowa State University Trademark Licensing office and use of a University approved vendor. A list of approved vendors and links to the forms to complete are located at <http://www.trademark.iastate.edu>.

EXTENSION NONDISCRIMINATION STATEMENT

The following nondiscrimination statement (also known as the justice statement) is required on all publications created by Iowa State University Extension and Outreach campus and field staff. The short version is to be used only when space is limited. In addition, use the appropriate cooperating statement.

NONDISCRIMINATION STATEMENT - FULL VERSION

Iowa State University Extension and Outreach does not discriminate on the basis of age, disability, ethnicity, gender identity, genetic information, marital status, national origin, pregnancy, race, religion, sex, sexual orientation, socioeconomic status, or status as a U.S. veteran. (Not all prohibited bases apply to all programs.) Inquiries regarding non-discrimination policies may be directed to the Diversity Officer, 2150 Beardshear Hall, 515 Morrill Road, Ames, Iowa 50011, 515-294-1482, extdiversity@iastate.edu. All other inquiries may be directed to 800-262-3804.

MEDIA RELEASE

Images, video, film or other media used for ISU Extension and Outreach programs requires a signed media release to be on-file. The release should list all identifiable individuals (including other Extension employees) who are principal players in the media and include a description of how the signer's image will be used. Also use the release when private property is recognizable. A model release form, accessible by Extension staff, is located at <http://www.extension.iastate.edu/Documents/Playbook/PhotoRecordingReleaseForm.pdf>. Signed media release forms must be held on file at the appropriate local ISU Extension and Outreach program office. As part of their application process Master Gardener trainees are asked to sign a blanket media release. Here are additional guidelines regarding release forms:

- Individuals under the age of 18 need the signature of a parent or guardian. The names and addresses for minors should be obtained and releases sent to parents/guardians before the photos are taken; otherwise,

obtain signatures before the images are used in ISU Extension and Outreach materials.

- Individuals who are identifiable in a group should sign releases whenever possible. This includes individuals visible in the foreground of large groups being photographed or videotaped in a public place (outside on the sidewalk or street) or in a public building (a big meeting).
- When photographing personal or private property (a garden, house, place of business, a commercial building, etc.), ask the owner to sign the release. If you are shooting images of public property, there is no need to obtain written consent.

Some examples:

1. A photo of a plant sale on a public street may require a release from people in the crowd if they are recognizable, but does not require a release from the owners of the businesses in the background.
2. A photo of a mother and child in a garden center requires one release from the mother for herself and the child, and another from the storeowner or manager.

COPYRIGHT

Copyright is a form of protection provided by the laws of the United States (title 17, U. S. Code) to the authors of "original works of authorship." It gives ISU Extension and Outreach the right to say how others use Extension materials. It provides legal recourse if the materials are used in unintended or unendorsed ways. It discourages copying in lieu of purchasing which helps recover production costs and produces income to fund future material development.

Many publications and resources that volunteers may want to use to create teaching materials such as presentations, articles and handouts, may have a copyright. Copyright can pertain to written material, photographs, website content and music whether in hard copy or found online. Materials authored or created by the United States Government are by law in the public domain, and therefore, not copyrighted.

Before using materials in creating a document, make certain that the references have no copyright protection. If they are copyrighted, get permission from the author(s) or creator(s) prior to using them. Check with your local coordinator or the ISU Technology Transfer Office

(http://www.techtransfer.iastate.edu/en/for_iowa_state/educational_resources/copyrights.cfm) for more details about copyright requirements from the university, fair use of copyrighted materials, and acquiring copyright permission. It is always important to acknowledge authors, photographers, and musicians when quoting them or using their work in finished materials.

Plagiarism is a separate issue from copyright infringement, but the two may overlap. Plagiarism is copying someone else's work and passing it off as your own. Copyright infringement means the illegal use of a work. If a photo or article is in the public domain, it is not copyrighted, but using it without attribution certainly is plagiarism.

For more explanation on plagiarism vs. copyright infringement, consult

<http://www.extension.org/pages/62309/plagiarism-vs-copyright-infringement#.VW9D7KY7shp>.

LIABILITY AND ACCIDENT COVERAGE AS A VOLUNTEER

As an agency of the State of Iowa, Iowa State University is self-insured for liability. Claims against the State of Iowa are handled according to provisions in the Iowa Tort Claims Act (Iowa Code, Chapter 669), which also sets forth the procedures by which tort claims may be filed.

In general, Iowa State University does not purchase commercial liability insurance. The majority of liability issues

for the university are covered under Chapter 669 of the Code of Iowa. However, unique circumstances may warrant the purchase of commercial liability insurance.

POLICY STATEMENT

Claims Against the State

Under Chapter 669, claims may be filed against the State on account of wrongful death, personal injury or property damage (including reasonable attorney fees) incurred by reason of the negligence of the University or its employees while acting within the scope of employment. The State will defend, indemnify, and hold the University or its employees harmless against any and all tort claims under the U.S. Constitution, statutes or rules of the United States and/or any other state, but will not cover willful or wanton acts, omissions, or malfeasance in office.

The above provisions apply to all employees of Iowa State University including faculty, staff, and graduate assistants on appointment, or any other individual full- or part-time, including students, **volunteers**, and agents acting in a temporary or permanent capacity on behalf of the institution.

COMMERCIAL LIABILITY INSURANCE

The University may purchase liability insurance or participate in self-insured liability pooling or other arrangements for professional liability, motor vehicle liability, or other liabilities if required by statute, contract, or special circumstance. Purchases must be made through the Office of Risk Management.

VOLUNTEER REIMBURSEMENTS FOR MASTER GARDENER PROGRAM EXPENSES

The Iowa Master Gardener program is voluntary, and thus participants receive no money for their services. If an individual does collect a stipend for something they do, they are no longer considered a volunteer and thus are not covered for liability purposes for that activity. ISU Extension and Outreach Master Gardeners may submit and be reimbursed by their local county programs and the state office, as appropriate, for actual out-of-pocket expenses supporting Master Gardener activities. A fee or donation can be paid to the Extension Master Gardener program in exchange for the services of Master Gardener volunteer; however, no individual may personally receive financial gain as an Iowa Master Gardener volunteer.

FUNDRAISING AND FINANCIAL MANAGEMENT

The Iowa Master Gardener program is a branch of Iowa State University Extension and Outreach. As such, local Master Gardener groups are closely tied to the mission and goals of ISU Extension and Outreach. Local Master Gardeners function as an arm of the local extension office and report to the local Extension Council.

As part of the local extension office, Master Gardener groups are subject to the policies and procedures of ISU Extension and Outreach. Money is handled through the Extension office according to University accounting and audit policies (similar to other Extension programs). The Master Gardener board or steering committee is fiscally responsible to the local Extension Council. All financial records shall be kept by the local Extension bookkeeper.

FUNDRAISING BY ISU EXTENSION AND OUTREACH MASTER GARDENERS



While the primary role of an ISU Extension and Outreach Master Gardener is to provide horticulture education, it is becoming increasingly necessary for state and local programs to generate funds from private sector donations and fundraising. Local county Master Gardener programs need to generate and manage financial resources to supplement group activities, support local projects and meet program needs. Most often revenues are generated through fees for services (class fees, event admission for horticulture days, garden tours) and sales of products (plants, calendars). Because the Iowa Master Gardener program is under the umbrella of Iowa State University Extension and Outreach, and is not a separate 501(c)3 nonprofit organization, programs are prohibited from conducting fundraisers using games of chance such as raffles or bingo where a gambling license is required by Iowa law.

As part of the local Extension office program, local Master Gardeners groups are expected to follow county Extension fiscal policies.

FINANCIAL STEWARDSHIP

Iowa State University Extension and Outreach policies and procedures provide the basis for Iowa Master Gardener program financial stewardship guidelines. As a public program of Iowa State University Extension and Outreach, it is important that money raised to support local county Extension Master Gardener programs is handled with the greatest stewardship. Procedures for handling Master Gardener funds should be transparent and follow sound financial management practices.

TAX DEDUCTIBLE DONATIONS

The Iowa Master Gardener program is **not** an independent 501(c)3 nonprofit organization. Therefore, it does not qualify to receive donations as tax-deductible charitable gifts. For the purpose of receiving such gifts, the Iowa State University Foundation, a 501(c)3 nonprofit organization, can serve as a fiscal agent for this purpose at the statewide level.

For more information about tax-deductible contributions to local Agricultural Extension Districts, follow the tax-deductible contributions link at <http://www.extension.iastate.edu/extensionfinance/policies.htm>.

USE OF UNIVERSITY SALES TAX EXEMPTION

Even though part of the Iowa State University community, county ISU Extension and Outreach Master Gardener programs are not typically eligible to use the University tax-exempt status to avoid having to pay sales tax on purchases for the program. In order to use Iowa State University's sales tax exempt status when purchasing items, the University must pay directly for the items using (1) a University purchasing card, (2) payment by University check whether at the time of purchase or on an invoice. (Note: the state Master Gardener office does not have the capacity to place orders and process invoices on the behalf of the many county Master Gardener programs.) However, County Agricultural Extension Districts do have tax-exempt status through the state of Iowa. When Master Gardener finances are run through the local County Extension Council, as they should be, tax-exempt status on purchases may be possible if certain criteria are met. Details are at <http://www.extension.iastate.edu/extensionfinance/policies.htm>.

APPENDICES

A. MASTER GARDENER ADVISORY COMMITTEE

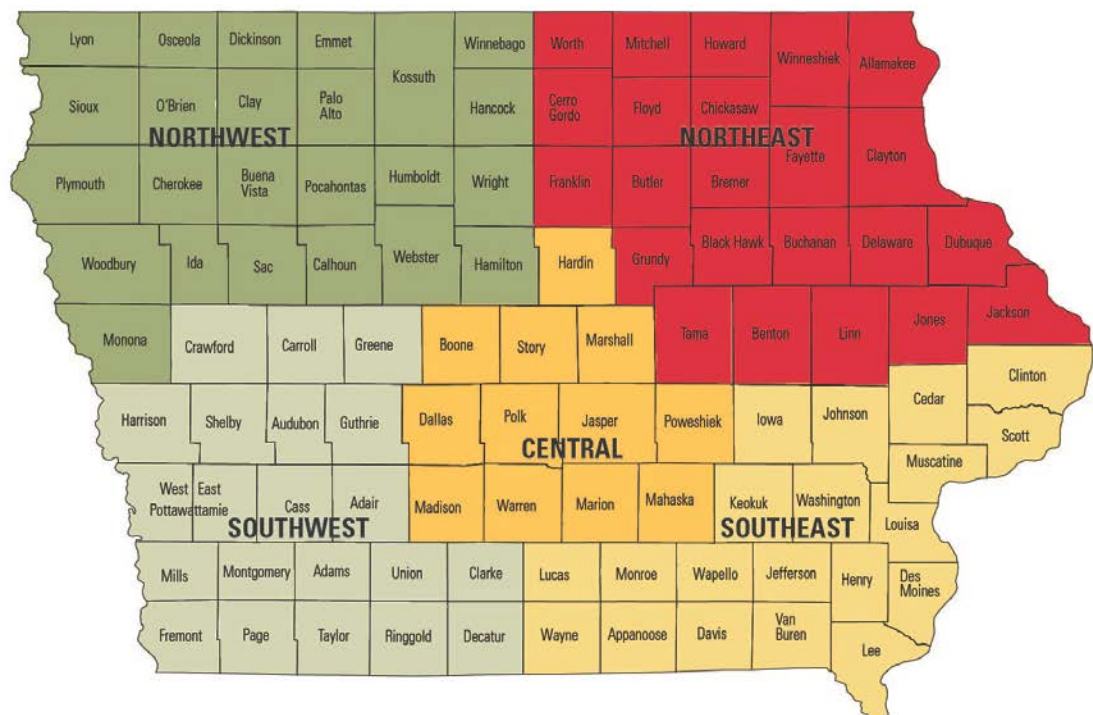
The State Master Gardener Advisory Committee advises the state coordinator on policies for the program and assists with planning state and regional conferences. This group meets at least twice per year to advise the state coordinator on policies for the program and to assist with planning state and regional conferences.

The mission of the ISU Master Gardener Advisory Committee is to unify, strengthen, and support the Iowa Master Gardener program. The Advisory Committee has the following purposes:

1. Serve as advisory council to state Master Gardener staff
2. Encourage equitable distribution of state Master Gardener resources
3. Recommend minimum standards for the core course training
4. Strengthen state Master Gardener education & training
5. Increase awareness of Master Gardener programs
6. Support an annual Master Gardener conference or educational update, and
7. Recommend policies and guidelines for Iowa programs while recognizing local needs.

The Master Gardener Advisory Committee consists of representatives from the five areas of Iowa represented on the map below: central, southeast, southwest, northwest, and northeast. These representatives include one Master Gardener and one Extension staff member from each area. The state staff—state coordinator and state program assistant, as well as several state-level extension specialists—are also included on the Advisory Committee.

Iowa Master Gardener Advisory Committee Areas



B. POSITION DESCRIPTION: ISU EXTENSION AND OUTREACH MASTER GARDENER VOLUNTEER

Purpose: To provide public education with research-based information from Iowa State University Extension and Outreach, or appropriate Cooperative Extension institutions, on best practices in consumer horticulture and environmental stewardship.

Nature and Scope: Iowa Master Gardener volunteers expand the ability of ISU Extension and Outreach faculty and staff to provide public value and meet the needs of Iowa citizens in the areas of consumer horticulture and environmental stewardship.

Trained Iowa Master Gardener interns and active Master Gardener volunteers provide educational programs, interpret Extension recommendations for consumers, and give advice and answers to questions on a broad range of gardening and landscape topics, including plant culture, plant pathology, entomology, soils, and environmentally sound best practices. This is accomplished through formal and informal activities that include plant clinics, telephone consultations, classes, written materials, demonstration gardens, public meetings, and one-on-one consultations. Master Gardeners may provide educational programs to adult or youth audiences through Extension partnerships with schools, institutions, or other organizations such as Conservation Districts and city park departments. Master Gardener volunteers may also serve in program leadership roles at local, regional or state levels as assigned or as elected according to program by-laws.

Iowa Master Gardener Requirements:

- Must participate fully in and complete core course training; fulfill annual continuing education requirement predetermined by county Extension master gardener program (minimum 10 hours annually to remain an active Iowa Master Gardener).
- Annually complete and report via the online hours reporting system at least 20 hours of public education volunteer service hours (minimum of 40 hours during the intern year).
- Follow ISU Extension and Outreach Master Gardener policies and procedures, including responsibility for reporting and responding to reasonable requests for volunteer service.
- Follow Iowa State University and Iowa Master Gardener codes of conduct.
- Follow policies and procedures established by the local Master Gardener program.
- Follow Iowa Master Gardener policies pertaining to use of research-based information and making recommendations, especially in relation to pesticides and other pest control measures.
- Be able to communicate effectively with the public by telephone, personal contact, group presentation and/or through written language.
- Be able to work with adults and/or youth, and be willing to share horticulture knowledge with others.
- Exhibit an interest in or have knowledge of gardening or other horticulture-related area.

Supervision: Iowa Master Gardener volunteers are supervised by and accountable to county or area Iowa State University Extension and Outreach staff in charge of the county program.

Benefits for Iowa Master Gardeners:

- Gain knowledge and skills in horticultural science and gardening.
- Stimulate a love of gardening.
- Experience personal satisfaction from helping others.
- Contribute public benefit to the community.
- Receive encouragement and recognition for volunteer activities.
- Increase leadership, organizational, decision making and problem-solving skills.
- Gain experience and skills transferable to new employment and volunteer opportunities.
- Establish friendships with fellow garden enthusiasts and develop useful contacts through networking.

C. NETIQUETTE: ETIQUETTE FOR THE INTERNET, EMAIL, SOCIAL MEDIA & LISTSERVS

REASONS FOR USING ELECTRONIC COMMUNICATION TECHNOLOGIES:

1. To share horticultural knowledge
2. To build community

3. To support each other as volunteers and gardeners

DEALING WITH TECHNICAL PROBLEMS:

1. For questions about personal computer equipment, Internet access, connection speed, or personal software, contact your Internet provider or software company help desk.
2. For questions regarding the Iowa Master Gardener website email: mgardener@iastate.edu.
3. For help with the online hours reporting system, complete the online hours reporting help link form: <http://mastergardenerhours.hort.iastate.edu/contact.php>

CONTENT:

1. **Show respect for clients and other volunteers.** Any Iowa Master Gardener who makes derogatory or inappropriate comments regarding race, gender, age, religion, sexual orientation, or does not show respect for others are subject to immediate removal and/or disciplinary action at the discretion of the state program coordinator in accordance with Master Gardener Program policies.
2. **Agree to disagree.** If you disagree with what someone has said online, put diplomatic communication skills into practice as you express that disagreement.
3. **Ranting online is unacceptable.** It's the equivalent of having a tantrum, something most of us wouldn't do face to face.
4. **Avoid typing all in capital letters.** It's hard to read completely capitalized messages and IT IS CONSIDERED SHOUTING in the online community. If you need to emphasize a word or two, use asterisks, underline, boldface, or italicize the words.
5. **Avoid confidential, personal or legally sensitive information.** When posting as an Iowa Master Gardener, you are representing Iowa State University Extension and Outreach. Messages should be businesslike, and reflect the organization and its policies.
6. **Avoid sarcasm, teasing or joking comments.** Readers cannot readily determine that you are kidding, and your comments could be misconstrued. If you are not sure how your ideas and comments will be taken, ask someone to read them before sending them.
7. **Refrain from sending spam, chain letters or spreading hoaxes.** Never pass along warnings about Internet viruses or any other threat without first checking with the supposed source. When in doubt, throw it out. A good source to check for authenticity of Internet rumors is snopes.com (<http://www.snopes.com/info/whatsnew.asp>)

Write well online:

1. Use proper grammar and punctuation, and spell correctly. Poorly written emails are a bad reflection on you. Pay attention to style, spelling, grammar, syntax and all the other rules of written communication. It will make a difference how your message is perceived.
2. Explain things completely. Electronic communication tends to be brief. Make certain that you include enough information to tell the whole story or answer the question adequately.
3. On the other hand, be concise. Keep your email short, brief and to the point. Make sure it clearly expresses your thoughts and ideas. Delete the irrelevant portions of the original message; just leave the portion that you are replying to. Put your reply at the top of the message, so the recipient doesn't have to scroll to the bottom to find it.
4. Read your message before you send it. Double-check it before you click the send button.
5. Fill in the subject line. Many people who receive dozens of emails a day appreciate seeing something in the subject line because it helps them prioritize the email and find it after it's been filed. Keep the subject line short. If you don't fill in the subject line, many people will think that your message is either a virus or spam.
6. Sign your email. Email addresses are not always comprised of people's names. The receiver may not be familiar with your email address and thus many choose not to respond.

(Adapted from "Email Netiquette", by Mathew Riedel, Rutgers University.
<http://mmlweb.rutgers.edu/music127/basic/email.htm>)

D. DIAGNOSING HORTICULTURAL PROBLEMS: TIPS FOR MASTER GARDENERS

The following tips are intended to help you feel more confident about answering horticulture-related questions.

- 1.** Follow all procedures and policies as established by your local extension director or Master Gardener coordinator.
- 2.** Relax. Speak loudly and clearly. Don't rush the conversation.
- 3.** Listen carefully. Focus on the caller and don't be distracted by other office activities.
- 4.** Ask questions. The sample forms on pages 10-16 suggest specific questions designed to gather needed information. Completed forms can be filed in a notebook for future reference.
- 5.** Form your initial opinion, if you must, but keep it to yourself and try to eliminate everything else first. Don't jump at the obvious!
- 6.** If in doubt about any information, offer to call back. Don't be afraid to say you need to find the answer, and don't feel that you have to apologize.
- 7.** Allow wiggle room. Avoid giving an absolutely positive diagnosis—say what you think is the problem.
- 8.** Refer to the specialists listed on page 225, as well as the technical information in your workbook and resource guides. Contact ISU staff whenever you have questions.
- 9.** If someone asks your opinion about something they have read or heard, answer with your honest thoughts. Be respectful and polite—"Perhaps that's the experience of that person, but I feel (or the University feels) this _____." Never belittle others. NOTE: Quoting the University or a specialist and crediting them with the information gives you immediate credibility.
- 10.** Don't worry about telling a person what they don't want to hear. Tell them what you think; don't let them put words in your mouth!
- 11.** If you sense that a person is happy with the way they are doing something, no matter how foolish or wrong it might seem to you, be diplomatic. If their action could be dangerous to themselves or others you are right to warn them but only an open mind will accept suggestions to change.
- 12.** Refer all questions from commercial clients (e.g., pesticide companies, nurseries, lawn care companies, farmers, etc.) to the extension director or ISU specialists.
- 13.** Excuse yourself from calls that might involve a third party or that has a chance for legal repercussions. Do not get in the middle of a situation that might turn into a lawsuit. Take a message for the county extension director or refer the caller to the appropriate state specialist.
- 14.** Gently and politely, but firmly, excuse yourself from any harassing, threatening, or abusive calls. Report problems to office staff.
- 15.** Never make appointments for the extension director, or field and state specialists. Let the person or their designee make their own arrangements.
- 16.** Most of all, have fun helping others!

Prepared by Donald R. Lewis, former professor-in-charge, Iowa Master Gardener Program. Adapted from "Determining Problems on Woody Ornamentals over the Telephone" by Raymond H. Zerba, Horticulture Extension Agent, Clay County Extension Service, University of Florida.

E. HORTICULTURE PLANT AND PEST SPECIALISTS

PLEASE CONTACT CONSUMER HORTICULTURE SPECIALISTS WITH GARDENING QUESTIONS. IN GENERAL, COMMERCIAL HORTICULTURE SPECIALISTS ASSIST COMMERCIAL BUSINESS OWNERS.

Horticulture, Iowa State University

Adam Thoms, athoms@iastate.edu
Turfgrass, 515-294-1957

Christopher Currey ccurrey@iastate.edu
Commercial Greenhouse Production,
515-294-1917

Kathleen Delate kdelate@iastate.edu
Organic Agriculture, 515-294-7069

Joe Hannan jmhannan@iastate.edu
Commercial Horticulture, 515-993-4281

Cynthia Haynes chaynes@iastate.edu
Consumer Horticulture, 515-294-4006

Jeff Iles iles@iastate.edu
Woody Ornamentals, 515-294-0029

Richard Jauron rjauron@iastate.edu
Consumer Horticulture
hortline@iastate.edu, 515-294-3108

Ajay Nair nairajay@iastate.edu
Consumer Vegetables, 515-294-7080

Patrick O'Malley omall@iastate.edu
Commercial Hort, 319-337-2145

ISU Plant & Insect Diagnostic Clinic

515-294-0581, pidc@iastate.edu

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Ed Zaworksi zaworski@iastate.edu

Laura Jesse ljesse@iastate.edu

Other Specialists, Iowa State University

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Weed Management, 515-294-1164

Ken Holscher kholsche@iastate.edu
Pesticide Applicator, 515-294-5967

Adam Janke ajanke@iastate.edu
Wildlife Management

Donald Lewis drlewis@iastate.edu
Insects, 515-294-1101

Mike Owen mdowen@iastate.edu
Weed Management, 515-294-5936

Kristine Schaefer schaefer@iastate.edu
Weed Management, 515-294-4286