

GREEN THUMB PRINTS

Gardening is our Passion Education is our Purpose

November 2022

November Monthly Meeting

November 10th-6:00 PM

Election of Officers

All members are encouraged to attend as we will vote for our 2023-24 president and treasurer!!!

Elections will be held through a written ballot.

Brown Bag

Cheryl Everett-“Native Plants to Think About Adding to Your Garden Next Spring”

Refreshments

Debra Evans and Linda Leiendecker



Upcoming Events

- Nov 1.....Wildlife-Friendly Plants for Your Yard-50N
- Nov 10.....November Monthly Meeting
- Nov 25 and 26.....Green Cutting for Wreath Classes
- Nov 27-Dec 4.....Wreath Classes-OSUE
- Dec 6.....Wreath Class-50N
- Dec 7 and 8.....Mugs of Joy
- Dec 8.....Christmas Potluck

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Reuben's Ruminations ***November 2022***

President's Notes for November, 2022

The fall colors continue to be spectacular this year. I hope wind and rain allow them to last a while. Rob Biolchini's educational brown bag presentation on fall colors was perfectly timed. Thanks, Rob.

Congratulations to all our interns who have "graduated" to full MGV status: Rob Biolchini, John King and Nick Moore. We know that some other interns have actually achieved the necessary hours or are very close. We look forward to inducting you soon.

I guess this is where I make the pitch to get your hours put into HOC! If you need help, don't hesitate to ask another MGV or Nichole in the extension office. I was told by Jen Andon at the state conference that improvements are coming soon to HOC – no indication of what or exactly when.

Congratulations to us for winning the State award for Pandemic Perseverance! As I mentioned at the October meeting, we received this award at the state conference on October 8. The main components of our "perseverance" were Zoom meetings, continued Ask-a-Master Gardener service, Facebook page, and *Courier* articles, and our outdoor projects at the Ag Center and Community Garden. Kudos and thanks to our officers and project leaders for handling challenges – and to everyone who participated.

Thanks to Debra Evans for handling the apparel order and distributing at the October meeting. Most of you are not aware of what all was involved with this, but Debra deserves some kind of perseverance award for getting this accomplished!

Thanks to Elaine Reynolds for her *Courier* article on fall clean-up – or not—and how it relates to over-wintering of beneficial insects. We hope that new knee is coming along well, Elaine.

The wreath classes are rapidly approaching, and if you didn't get a chance to sign up to help or to provide greens, be sure to get in touch with Betsy DeFrancesco. And if you missed it, Cheryl Everett has offered to provide hot beverages and soup to greens cutters at her place on Nov 26!

As we start to look forward to 2023, there are several important considerations:

Elections – at November meeting (see notes elsewhere in newsletter)

Goals and Budgets – I have asked all committee chairs to evaluate how things went this year and to consider what their goals should be for 2023, then propose budgets accordingly.

Committee Chairs & Project Leaders – our committee chair people are all leading multiple projects, and all have said that they would be more than willing to share the load. If you are not currently leading a project or chairing a committee, please consider how and where you could lend your talents and interest. Committee chair people will be more than happy to discuss with you. In fact, don't be surprised if they contact you – but don't wait for that!

Enjoy the fall colors while they last! See you in November.

Reuben DeBalt

**Hancock County Master Gardener Volunteer
Meeting Minutes
October 13, 2022**

Debra Evans distributed apparel before the meeting.

Reuben DeBolt introduced the Brown Bag speaker at 6:00 PM

Brown Bag: Rob Biolchini gave a presentation “Fall Colors in Hancock County”

Break for snacks at 6:38 PM. The formal meeting began at 7:02 PM with 22 people in attendance.

President Reuben DeBolt welcomed the group and noted that Elaine Reynolds was scheduled for knee replacement surgery today and wished her well.

OSU Report: Ed Lentz

- 1) Reminded members to either add their hours into HOC or send them to him so that Nicole can enter them into the system. He suggested that we might want to allot time at our November meeting to work on helping members enter hours.
- 2) Reminded members to sign the attendance sheet.
- 3) Mentioned that the executive committee is working on revisions to our policy based on suggestions from the audit. If you would like to help or would like a copy of the draft you may contact Ed.
- 4) Ed and Karl Farwig presented 3 of our interns their name tags as they have completed the 50 hours of service needed to become an active member:
Congratulations to Rob Biolchini, John King and Nick Moore.

Minutes of the Previous Meeting:

The minutes of our August 11, 2022 were approved; motion: Peggy Biolchini; second: Lynn Farwig

Treasurer’s Report: Ann Woolum

<u>August</u>		<u>September</u>	
Unrestricted cash	\$3638.09	Unrestricted cash	\$3709.69
Community Garden	\$ 489.07	Community Garden	\$ 489.07
Total Cash	\$4127.16	Total Cash	\$4198.76

Expenses in August were \$941.76 unrestricted and \$191.24 income.

Expenses in September were \$75.00 unrestricted and \$146.60 income.

Ann is keeping track of in-kind donations from businesses and individuals. If you purchased something for Master Gardeners as a donation, she is asking that you give her the receipt or dollar amount.

President’s Report: Reuben DeBolt

- 1) Distributed a copy of our 2022 Committee Chairs and Project Leads. He noted that several people filled multiple roles in 2022 or stepped up to fill vacant spots, but ask that we spread this around more in 2023. Please contact him or committee chairs if you are willing to fill a spot. At this time we have the Plant Exchange and Fair Booth positions open.
- 2) Distributed several handouts he received while attending the 2022 Ohio Master Gardener Volunteer State Conference in Warrensville Heights on Saturday, October 8th.

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**Hancock County Master Gardener Volunteer
Meeting Minutes
October 13, 2022
(Continued)**

President's Report: Reuben DeBolt (Continued)

- 3) Reuben announced that the executive committee nominated 3 persons/projects for awards for the 2022 Ohio Master Gardener Volunteer State Awards' Program:
 - a) Peggy Biolchini-Master Gardener of the Year
 - b) The OSUE Garden-Master Gardener Project of the Year
 - c) Hancock County Master Gardener Volunteers for the COVID Perseverance AwardWe were the winners of The Perseverance Award!!! The nomination highlighted how we stayed together during COVID through our ZOOM meetings and outdoor projects. We received \$100 for winning this award. Thank you to Reuben and Ed for writing these nominations.
- 4) Please turn in your hours so we can recertify everyone. Ed must also turn these into OSU.
- 5) The Spotted Lanternfly has been identified in Lucas County.
- 6) Reuben noted that he gave a presentation to the Rotary Club last week and had many questions afterwards.
- 7) Reuben has contacted the committee chairs and ask that they start to discuss with their project leads their budget and goals for 2023.

Committee Reports:

*Administration-Lynn Farwig

- Everything is moving along with the committee.
- She noted to contact Lisa McClain if there is something you would like published in the newsletter.
- Lisa is also open to suggestions for additions or changes to the newsletter.
- Lynn commended Debra Evans on handling the apparel order.

*Social and Fundraising-Rose Morrison

- Wreath Classes
 - a) Betsy DeFrancesco reported that 106 participants have signed up for Wreath Classes as of today.
 - b) 2 sign-up sheets were circulated for members to sign up to either offer their trees for cuttings or to sign up to help.
 - c) Cheryl Everett has volunteered her trees for cutting greens on Saturday, November 26. She will be serving hot beverages and soup.
- Rose reported that she will contact Marilyn Beltz to see if she is willing to organize the Christmas Potluck this year.
- Rose pointed out that Linda Leiendecker was doing a great job organizing the refreshments.

*Service Committee-Tim Brugeman (out of state)

OSUE Garden-Peggy Biolchini

- Peggy reported that she has been working on cleaning up and cutting back the garden for fall.
- She has dug out the Wild bergamot as it was spreading too quickly. She distributed this to interested members.
- Hosta are not holding up well due to the wind. Peggy is thinking of planting Autumn Joy Sedum in those areas.
- Ed suggested taking pictures of successes and failures to use for educational purposes.
- Peggy is looking for someone who is interested in taking over the OSUE garden for 2023.

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**Hancock County Master Gardener Volunteer
Meeting Minutes
October 13, 2022
(Continued)**

*Service Committee-Tim Brugeman (out of state)

Community Garden-Brint Simmons

- Brint said the garden is cleared, all produce donated and fencing, stakes, etc. put away for the winter.
- Even though our total donation of \$1,633 did not meet our 2022 goal, Brint considers this year's garden a huge success!!! There was great participation by interns and active members!!! Plus, they had fun doing it.

*Teaching-Judi Clymer

- Next month we will have a sign-up sheet for our 2023 Courier articles. Please start thinking of topics.
- Linda Finsel noted that "Gardening in Our Golden Years" presentations will be conducted by Lisa McClain at 50N on November 1st on "Attracting Wildlife to Your Yard" and Betsy DeFrancesco will be making wreaths with 50N members on December 6th. Pre-Registration is required for the wreath class along with a \$25 fee. 50N will handle registration and the collection of the registration fee.
- Rose Morrison thanked everyone who participated in the fair and gave a special thank you to John King and Jeff Wingate.

*Education Committee-Peggy Biolchini

- Bill Jones conducted a Soil Testing training for Pete Reynolds and Rob Biolchini.
- There were 15 Ask-A-Master Gardener questions in August and 16 in September. Many of the questions recently have concerned grubs.
- Ed encouraged interns to participate in Ask-A-Master Gardener.
- Cheryl Everett will give the Brown Bag in November on "Native Plants to Think About Adding to Your Gardens Next Spring"

Old Business:

Ann Woolum and Elaine Reynolds are drafting policy revisions as a follow up to the audit report.

New Business:

- The list of nominations for the 2023-24 positions of President and Treasurer were presented.
- Nominated for President are Lisa McClain and Rose Morrison and for Treasurer, Karl Farwig and Ann Woolum. The floor was opened for other nominations. None being made, Reuben entertained a motion to close nominations. Motion was made by John King and seconded by Barbara Phillips. Motion passed. Elections will be held at our November 10th meeting.

Motion to Adjourn: Rose Morrison; second; Lynn Farwig. Motion passed and the meeting adjourned at 7:57pm.

Our next meeting will be held on November 10th at 6:00 PM.

Respectfully Submitted: Lisa McClain

Candidate BIOS

FOR PRESIDENT:

Rose Morrison

I have been nominated for the office of President for the Hancock County Master Gardeners. I previously was President from 2018-2020. I chose not to run again due to the stress we all experienced during 2020. I am proud of what we accomplished during my presidency even with the challenges.

I accepted the nomination to help the organization be a positive enjoyable experience for all while achieving the goals.

I joined Master Gardeners after retiring from my career in Retail Loss Prevention. As Regional Director I supervised up to 30 stores at a time. I learned how to handle tense, delicate situations as well as the ability to lead many people daily. My mantra has always been "Integrity is doing the right thing even when no one is watching."

I have four grown children including my son Scotty who is an adult with classic autism. He has taught me the necessity of patience, humor, and not to sweat the small stuff.

I believe that either Lisa or myself would do an excellent job in the role of president.

Lisa McClain As an elementary and middle school counselor I spent most of my 31 years with Findlay City Schools. As a school counselor, I worked with children, staff and parents in difficult situations. My main responsibility was working with children, but I also chaired various committees, building and district-wide, and presented workshops including being a district presenter on "Understanding Poverty". Besides my counseling certification I also held an administrative certification. In 2014 I completed the OCVN-Ohio Certified Volunteer Naturalist Training and the Hancock County Master Gardener Training in 2019. Since January 2020 I have served as a trustee for the Hancock Parks Foundation.

As a Master Gardener I have been involved with our seminars, OSUE/Community Gardens, Courier articles, the newsletter and 50N presentations. I have also volunteered to help with the Wreath Making classes, the Fair and our Native Plant Sale. I have been serving as Vice President since January of 2022. My special interests include native plants and vegetable gardening. As president I would encourage MGV volunteers to share their knowledge and expertise with each other and use the positive energy of our group to move forward.

FOR TREASURER:

Karl Farwig I received a call asking me if I would mind being nominated for Treasurer due to my qualifications and knowledge of the MGV organization. I told them they could nominate me as I agreed with them. As to my qualifications, I was a licensed Certified Public Accountant for 25+ years and had a tax practice during some of those years. Since retiring I have allowed my license to go to inactive status. I have also been the Treasurer of Immanuel Lutheran Church for several years, accounting for transactions and income over \$250,000 a year. That role alone is significantly more complicated than the books of Hancock County Master Gardeners.

I also have the background of the Ohio State Master Gardener organization and their processes and obviously have significant background in our own group. I have worked hard over the years to get our organization where it is and would like to continue to move us forward in a positive way.

If you agree that I am qualified and willing to be our Treasurer, I ask you to support me to become the next Treasurer of the Hancock County Master Gardeners.

Ann Woolum I would like to continue to serve as Treasurer for the Hancock County Master Gardeners, Inc. (MGV). I have been a Master Gardener since 2010 and have served on various committees. I have been especially active as chair of the field trip committee, chaired the March 2020 seminar on "Sustainable Landscaping" committee, community garden, OSUE Office Garden, written Courier Articles, wreath making classes, Mother's Day, and county fair booth. I have served the past 6 years as MGV Treasurer and am willing to continue. A long time Findlay resident, I have been active in the community with Kiwanis for over 20 years. I previously was a board member and continue to serve on several committees. I was very involved in the Brucklacher Park playground project recently landscaped with volunteers at the Historical Museum's Little Red Schoolhouse. I currently serve on the ADAMHS Board as Board Chair and was the past finance chair. I am semi-retired from being a partner/CPA with Knueven, Schroeder & Co. I enjoy tending my yard flowers and vegetable garden with excess harvests being shared with neighbors. As Treasurer, I want to keep the club informed of its finances, file required state and federal reports, and assist the Hancock County MGV stay financially sound.

2022 Hancock County Master Gardener Volunteer Committees

This list describes how our organization is set up & all the jobs that need to be done.
(Especially for the new Master Gardeners and Interns, but also as a reminder to all of us)
Maybe you want to try something new!!!

People who are serving multiple roles are probably willing to turn over some positions
to anyone else who is interested.

Executive Committee

Ed Lentz, Extension Educator	419-422-3851	lentz.38@osu.edu
Reuben DeBolt, President	419-722-4155	reubendebolt@hotmail.com
Lisa McClain, Vice-President	419-722-6235	enjymzk@gmail.com
Ann Woolum, Treasurer	419-348-5191	awhcpa@aol.com
Elaine Reynolds, Secretary	419-306-1725	elaine.reynolds@outlook.com

Administrative Committee

Committee Chair-Lynn Farwig	419-348-0915	lynnfarwig@gmail.com
Newsletter-Lisa McClain	419-722-6235	enjymzk@gmail.com
Media-Betsy DeFrancesco	908-910-5586	betsmart_207@yahoo.com
Membership-Lynn Farwig	419-348-0915	lynnfarwig@gmail.com
Apparel-Debra Evans	567-271-1993	debrakevans9093@gmail.com
Historian-Debra Evans	567-271-1993	debrakevans9093@gmail.com

Social and Fundraiser Committee

Committee Chair-Rose Morrison	419-889-3931	rmorrison@woh.rr.com
Fundraising-Betsy DeFrancesco	908-910-5586	betsmart_207@yahoo.com
Summer Picnic-Marlene Brunswick	419-310-0882	rpbmdb@aol.com
Christmas Potluck-Marilyn Beltz	419-306-7470	mbeltz@woh.rr.com
Refreshments-Linda Leiendecker	419-889-2958	lindaleien@gmail.com
Plant Exchange- <i>Open</i>		

Service Committee

Committee Chair-Tim Brugeman	419-672-8897	tbrugeman@woh.rr.com
OSUE Entrance Garden- <i>Open</i>		
Community Gardens- Brint Simmons	419-306-5446	brintsimmons@sbcglobal.net
Mugs of Joy-Rose Morrison	419-889-3931	rmorrison@woh.rr.com

Teaching Committee

Committee Chair- <i>Open</i>		
Courier Articles-Laurie Pressel	419-721-2581	lauriepressel3@gmail.com
Speakers Bureau/Library-Linda Finsel	419-788-1969	lindamf@earthlink.net
Let's Go Gardening-Judi Clymer	419-345-8086	clymerjudith@gmail.com
Fair Booth- <i>Open</i>		

Education Committee

Committee Chair-Peggy Biolchini	419-306-4235	biolchini@aol.com
Brown Bag-Peggy Biolchini	419-306-4235	biolchini@aol.com
MGV Classes-Karl Farwig	419-348-7577	khfarwig@gmail.com
Seminars-Peggy Biolchini	419-306-4235	biolchini@aol.com
Ask-A-Gardener-Peggy Biolchini	419-306-4235	biolchini@aol.com
Field Trips- Ann Woolum	419-348-5191	awhcpa@aol.com
Mentors-Tim Brugeman	419-672-8897	tbrugeman@woh.rr.com

2022 MGW Wreath Workshops

Betsy DeFrancesco

Do you need service hours? Now is your chance to get as many hours as you need – come assist with the Wreath Workshops!!

We need properties where we can cut greens. Please let Betsy know if you have evergreens that we can trim from!

We need volunteers for cutting greens on Friday, Nov. 25 and Saturday, Nov. 26. To volunteer, please call Betsy DeFrancesco at 908-910-5586 or email her at betsmart_207@yahoo.com.

The workshops will be held in the conference room at the Hancock County Agricultural Services Building with one exception. New this year, we are teaming up with 50N to offer a morning class on Tuesday, Dec 6th for 50N members.

The sign up sheet will be available at the November meeting.

DATES & TIMES:

Sunday, November 27	2 pm
Monday, November 28	6 pm (SOLD OUT)
Wednesday, November 30	6 pm
Thursday, December 1	6 pm
Saturday, December 3	2 pm
Sunday, December 4	2 pm



Reuben DeBolt Accepting
COVID Perseverance Award

Hancock County MGW's win the 2021 State COVID Perseverance Award!

Also nominated for 2021 state awards were the following:

Peggy Biolchini

Outstanding Master Gardener Volunteer

Hancock County Agricultural Services Center

Landscaping Project

OSUE Outstanding Master Gardener Volunteer
Community Service Project

Congratulations to everyone!

MG Happenings



**Rob Biolchini-John King-Nick Moore
on becoming active members!!!**

Christmas Potluck

Rose Morrison

The December 8th MGV regular meeting is replaced by our Christmas Potluck. This event includes all MGV'S and a guest. Meat, table wear, and drinks will be provided.

There will be a sign up sheet at the November meeting for attendance and for whether you will be bringing salad, vegetables, dessert, etc.

If you are not attending the November meeting please e-mail, text or call me at rmorrison@woh.rr.com or 419-889-3931 by November 18 so we have an idea of how many will be attending.

Mugs of Joy

Each year, one of the service projects the MGV do is Mugs of Joy. We select senior care facilities where we provide Christmas mugs, greenery, and decorations for each resident. We help each resident fill and decorate the mug for their rooms and sing some Christmas carols with the group.

This year I have scheduled the event with two senior care facilities, Heritage Memory Care and Taylor House. The events will take place at Taylor House on December 7 at 1:30 p.m. and at The Heritage Memory Care Unit on December 8 at 10:00 am.

There will be a sign up sheet at the November monthly meeting for anyone interested in participating and helping with this rewarding project.

Happy Holidays.

Rose



(Continued)

MG Happenings

(Continued)

Thanks Rob Biolchini for a great
Brown Bag!!!



“Gardening in Our Golden Years”

Tim Brugeman

John King and Craig Lamme presented **“Fall Fun in the Garden”** on October 4th at 50N.



The next presentations are as follows:

November 1 at 10:30 AM—**“Wildlife-Friendly Plants for Your Yard”**

Learn about incorporating plants that can attract wildlife to your yard the year around with Master Gardener Lisa McClain. Get ready for winter birds; add plants for next springs butterflies, hummingbirds and bee-pollinators. Registration required.

December 6 at 10:30 AM— **“Christmas Wreath Making Workshop”**

Join Master Gardener Betsy Martindale-DeFrancesco and elves to make a take-home Christmas wreath to add great smells and beauty for the holidays. Fresh cut evergreens, wire, frame and ribbon provided. \$25 Fee, Limit 25, Pre-Registration required.

While programs are basically for 50N members, we are welcome to either attend to listen to the presentation or assist. MG's need not register to attend unless doing the \$25 December wreath workshop.

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MG Happenings

(Continued)

Community Garden

Thank you to everyone involved with this year's Community Garden!



Intern Opportunity Hours Still Available for 2022

- Attend or assist with 50N "Gardening In Your Golden Years" Programs
- Assist with wreath workshops starting in late November

Please remember to send hours monthly to Ed Lentz at lentz.38@osu.edu.

Insects Essential to Successful Plant Life

Elaine Reynolds

The Courier-November 8, 2022

<https://mynewsonthego.com/courier/Reader/Story.aspx?id=559d147f-8acc-425a-9de8-ee8e09f28003>

White Grubs

About White Grubs

White grubs are the larvae of beetles in the family *Scarabaeidae*, commonly called scarabs. Although there are many different species of scarab beetles in West Virginia, the larvae of only a few are considered significant pests. Among native white grub species, the most important and widespread include the masked chafer (*Cyclocephala*), May beetle (*Phyllophaga*), black turfgrass ataenius (*Ataenius spretulus*), and green June beetle (*Cotinis nitida*). Important invasive white grub species include the Japanese beetle (*Popillia japonica*), oriental beetle (*Anomala orientalis*), Asiatic garden beetle (*Maladera castanea*), and European chafer (*Rhizotrogus majalis*).

White Grub Description



All white grubs are similar in appearance except for size, which varies with the species and age. When fully developed, they can range from 3/8 inch to nearly 2 inches in length. Grubs are whitish to cream-colored with a brown head and three pairs of short legs. White grubs are soft-bodied and exhibit a characteristic C-shape posture.

Adult beetles are stout bodied, oval in shape, and have clubbed antennae. Depending upon species, they can be green, tan, brown, or black and can range from about 3/16 inch to 1 inch in length. With the exception of Japanese beetles and green June beetles, most species are active during dusk or at night, and are not noticed except when attracted to outdoor lights.

White Grub Damage

White grubs feed below the soil surface on the roots of grasses. Early symptoms of feeding injury include grass wilting or yellowing, and the appearance of scattered, dead patches of grass. Over time, dead patches can increase in size and begin to join together. Grass that is damaged by white grubs is loosely attached to the soil and can easily be pulled up or rolled back like a carpet. Damaged areas may also feel spongy underfoot.

White Grub Sampling

Scouting for the presence of white grubs in turf and other grasses should begin early during the grub activity period to determine if the application of a control procedure is warranted. Since white grub infestations are usually patchy throughout an area of grass, several evenly spaced samples

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White Grubs

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White Grub Sampling (Continued)

should be collected. At each sample site, cut three sides of a square turf section (up to 1 square foot in size) and peel back the sod. Examine the roots and soil to about 3 inches depth for the presence of white grubs. After examining the soil, replace the grass and water to encourage regrowth. However, finding a few grubs is not cause for alarm. Healthy grass can outgrow the root loss caused by a small number of grubs without showing signs of damage. If areas of grass are dead or dying and grubs are not detected, examine the sod and soil for other causes of injury such as disease, moisture and/or heat stress, excessive thatch or other insect feeding.

White Grub Control

Cultural Control of White Grubs

Soil moisture can affect white grub populations and the severity of feeding damage. Since wet periods during July and early August normally favor survival of eggs and young grubs, limit the watering of lawns and turf during this time. However, once the eggs have hatched (around late August and September) increasing soil moisture can reduce feeding damage by encouraging the regrowth of grass roots.

Biological Control of White Grubs

Milky spore disease and insect-parasitic nematodes are two commercially available biological control products available for management of white grubs. Milky spore is a disease that is caused by the spore-forming bacteria *Paenibacillus popilliae*. Dusts containing the bacterial spores are fatal to [Japanese beetle](#) grubs when ingested. This product is not effective on other species of white grubs. An alternative biological control product marketed for control of a variety of white grub species are insect-parasitic nematodes (*Steinernema* and *Heterorhabditis* spp.). These microscopic round worms seek out and kill white grubs in the soil. The effectiveness of biological control products is often mixed because their performance can be affected by a number of environmental factors (e.g., soil moisture, soil type/texture and temperature). Furthermore, it often takes time for their numbers to build sufficiently to control grub populations.

Chemical Control of White Grubs

If white grubs are abundant and causing damage, and non-chemical options have failed, application of an insecticide may be necessary. Rescue treatments with products containing the active ingredient trichlorfon or carbaryl should be applied mid to late August, or when young grubs are present. In areas with a history of white grub problems, a preventative treatment with products containing the active ingredient chlorantraniliprole, clothianidin, imidacloprid or thiamethoxam may be beneficial. These products allow some flexibility in the timing of applications and can be applied a month or so before egg hatch (mid-June to July). Insecticide applications are generally not recommended during the spring since they are not as effective against older grubs. For best results, mow and rake out dead grass, and thatch before treatment with a grub insecticide. All insecticide products should be applied as directed on the label. For more information, please contact your county WVU Extension Office.

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White Grubs

(Continued)

White Grub Life Cycle

Green June beetles, masked chafers, European chafers, Japanese beetles, oriental beetles and Asiatic garden beetles have annual life cycles, meaning they complete one generation per year. Adults mate and lay eggs in mid-summer (June to August). Newly hatched grubs immediately begin feeding on grass roots and organic matter. They continue to feed until around the time of first frost, at which point the nearly full-grown grubs move deeper into the soil and remain inactive during the winter. As the soil warms in the spring, the grubs move back into the root zone and resume feeding until turning into pupae (May to June). Pupae transform into adults and emerge from the soil several weeks later to complete the one-year life cycle.

May beetles (also known as June beetles) typically require two or three years to complete one generation. Adults mate and lay eggs from mid-April to June. Newly hatched grubs feed throughout the summer until the onset of cooler fall temperatures forces them deeper into the soil. As the soil warms in the spring, the grubs move back into the root zone and resume feeding. Species with two-year life cycles pupate by the end of the second summer, typically transforming into adults by late fall and emerging from the soil the following spring. Species with three-year life cycles pupate midway through the third summer, transforming into adults by early fall and emerging from the soil the following spring.

Black turfgrass ataeinus have two generations per year. Adults spend the winter in loose soil, leaf litter or other organic debris before emerging in the spring. Beetles lay eggs from May to mid-June. Grubs typically feed for about four weeks before pupating. First generation adults emerge from the soil in June and July to mate and lay eggs. Second generation grubs mature and pupate from late August to September, producing adults that mate and overwinter in the fall.

Author: Daniel Frank, former WVU Extension Entomology Specialist





IT'S Time To.....November

Ohio State University Extension

November 6

- Remove dead, diseased or damaged branches.
- If you are planning to order a "live" Christmas tree, prepare its planting hole before the soil freezes.
- Continue mowing lawn as needed running leaves through your mower and allowing them on lawn.
- Harvest mature green tomatoes before frost, and ripen indoors in the dark. Store at 55-70 degrees F.
- Harvest root crops and store in a cold (32 degrees F), humid location.

November 13

- Clean the garden and compost plant debris.
- Order fruit trees for next year.
- Apply trunk wrap to trees likely to be damaged by rubbing deer.
- Bring garden hoses in soon.
- Get your spring-blooming bulbs planted soon.
- Wash dust from your houseplants.
- Don't over-water your houseplants.
- Reduce or stop fertilizing houseplants for the winter.
- Provide food and water for wildlife.

November 20

- Winterize the lawnmower, rototiller, and other summer tools.
- Bring in garden hoses.
- Remove fallen leaves from the lawn.
- Store outdoor furniture.
- Clean and store garden tools.
- Drain outdoor faucets.

November 27

- Store pesticides in a safe place.
- Wash garden gloves.
- Check houseplants for pests.
- Turn houseplants regularly for even growth.



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

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