Northern Shenandoah Valley Master Gardener Association

### Beginning Vegetable Gardening Series

Webinar 3 of 6: Maintaining your Garden

**Presenter: Debbie Talley & Heather Enloe** 

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Virginia Cooperative Extension Virginia Tech • Virginia State University

### Overview: Keeping Your Garden Going!

Water Thinning & Weeding Tools Mulch Pest Control Plant Supports Fertilizer



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# Watering





### Watering your Garden: Why

Regular and adequate water is crucial to plant life.





### Watering your Garden: When

Established plants need one to two inches per week. Check your forecast or consider a rain gauge. Use a moisture probe/finger to measure moisture in the soil up to 3"





### Watering your Garden: When

Morning is the best time to water Early evening is the second-best time to water Midday watering should be avoided during hot weather





### Watering your Garden: How

Watering Cans & Wands: Your goal is to wet the ground, not the foliage. Keep the shower light on young & fragile seedlings and plants.





### Watering your Garden: How

Hoses & Drip Irrigation: A good solution for a large or highly populated garden, or when your water source is some distance away.





### Watering your Garden: How

Your water source location: It's easier to move your garden once than move your water every week.

A AND AND AREAS

Why?

- Healthier plants
- Stronger plants
- Maximize access to light, water, air, and nutrients



When?

- Sooner is better
- When plants have 2-3 true leaves



### How?

- Use pruning shears or scissors
  - Avoid the pluck/pull
- Refer to seed packaging for spacing requirements



### How?

- In the tray:
  - One plant per cell
- In the garden:
  - Look for plants that are the
    - (1) strongest
    - (2) healthiest
    - (3) most compact





### Why?

- Everything competes for water, space, air & nutrients
- Kill the competition



When?24 hours a day

• 7 days a week

JUST KIDDING (But not really)



### When?

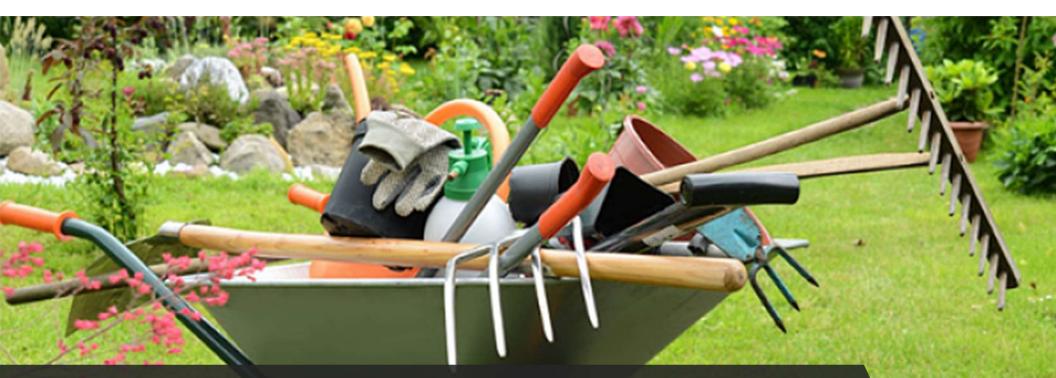
- As soon as they begin to appear
- Throughout the growing season
- Pace yourself
- Weed when the soil is somewhat moist



### How?

- Hands
- Hand tools
  - Trowel
  - Hand weeder
  - Cultivators
- Garden tools





## Garden Tools

#### Gloves

- · Have one or two pairs
- Look for reinforced fingertips and padding
- Keep a heavier pair on hand for using with tools
- Function: avoids hand injury including cuts and blisters



#### Trowels

- Have at least one
- Assorted by width, shape & depth depending on your need
- Function: digs holes for plants & bulbs; breaks up small clumps of soil



#### **Pruning Shears**

A Must Have!

 Function: Harvesting vegetables, trimming plants (shrubs & flowers)



#### **Pruning Shears**

When selecting shears, consider your needs:

- Spring Power for ease of use
- Ratchet Mechanism for power
- Soft grip for all day use
- Hard grip for everyday use



#### **Pruning Shears**

Pruning Snips/Microtip

- Fine precision cuts
- Trimming
- Thinning
- Getting into small, tight areas



#### **Pruning Shears**

Bypass

- One sharp blade edge and one unsharpened edge "bypass" each other
- Good for thicker branches and foliage
- Keeps cuts sharp and clean for optimal plant health
- Demands hand strength



#### Shovel v. Spade The Shovel

- Function:
  - Digging up, breaking apart & lifting soil;
  - Scooping & moving loose materials
  - Digging holes



#### Shovel v. Spade The Shovel

- Look for:
  - Strong handle/blade connection
  - Long handle with no grip (since they are mostly held at an angle)
  - Flat ledge at the top of metal for stepping



#### Shovels v. Spades The Spade

- Function:
  - Cutting sod
  - Edging
  - Digging trenches



### Shovels v. Spades The Spade

- Look for:
  - Strong handle/blade connection
  - Topped with D or T grip for easier hold
  - Flat ledge at the top of metal for stepping



### **Spading Fork**

- Function:
  - Turning soil
  - Digging up root crops, potatoes, and large plants while minimizing root damage.



### Hoes

- Warren
- Draw
  - Garden
  - Scuffle/Hula
  - 2-Prong Weeder
  - Eye



#### Hoes

Warren

- Function:
  - Cutting sod
  - Edging
  - Digging trenches



#### Hoes

Draw: Garden

- Function:
  - Cut off and uproot small weeds
  - Loosen soil to cover plant root
  - Quick digging/weeding



#### Hoes

Draw: Scuffle/Hula

- Function:
  - Removing small surfacegrowing weeds



#### Hoes

Draw: 2-Prong Weeder

- Function:
  - Breaking up hard clumps
  - Digging holes/wide furrows



#### Hoes

Draw: Eye

- Function:
  - Loosening large clumps of grass/soil



#### **Dirt/Gravel Rakes**

- $\cdot$  Function
  - Leveling/Smoothing surfaces
  - Removing large weeds/dirt clods



#### Cultivators

- Hand
- 2-Cycle Tillers
- Rototillers



Cultivators Hand



**Cultivators** 2-Cycle Tillers



Cultivators Rototillers



#### **Gardening Knives**

- Garden
- Pruning



Gardening Knives Pruning



#### **Gardening Knives**

Hori Hori Japanese Garden Knife



#### Wheelbarrows & Carts

- Function:
  - Hauling
  - Push v. Pull



**Kneeling Pad** 



**Kneeler & Seat** 



**Bucket/Bag for Tools** 

- Canvas Tote
- 5 Gallon Bucket
- Toolbag



#### Watering Devices

- Watering Cans
  - Hoses
- Irrigation Hoses



#### **Personal Protective Equipment**

- Hat
- Handheld Sprayer
- Protective Clothing
  - Protective Gear
    - Shoes



#### **Maintaining Your Tools**

During the Gardening Season

- Clean before & after each use
- Wipe your tools with alcohol (at least 70%) after each session
- Keep tools sharp for efficiency



#### **Maintaining Your Tools**

After the Gardening Season

- Apply **linseed or mineral oil** to all tool parts to keep rust abated
- Sharpen your tools & hang them
- Store in a dry place to keep rust and rot away



- The Top Ten
- 1. Gloves
- 2. Trowel
- 3. Shovel
- 4. Spading Fork
- 5. Bypass Pruners
- 6. Scuffle Hoe or Hand Cultivator
- 7. Wheelbarrow/Cart
- 8. Warren Hoe
- 9. Knife
- 10. Hat & H20





#### Why?

- Maintains Moisture
- Suppresses Weeds
- Regulates Soil Temperature
- Improves Soil Health



#### When?

- When Plants are a Few Inches Tall
- Before the Weeds Arrive
- Throughout the Growing Season



- Apply 2-3 Inches
- Natural Mulch
  - Compost
  - Pine Needles
  - Shredded Leaves
  - Hay/Grass



- Natural Mulch don'ts
  - Avoid tree bark
  - Avoid herbicidetreated lawn clippings
  - Avoid fresh sawdust & fresh manure
  - Avoid dyed mulches



- Synthetic Mulch (Plastic)
  - Red or black are good for tomatoes & peppers
  - Be sure you have created watering holes/slashes
  - Use food-safe (ask the dealer)



- Synthetic Mulch (Other)
  - Crushed Rock
  - Recycled Glass
  - Weighted landscaping material (remove at end of season)



#### Remember:

- Keep mulch at least an inch away from plant stems
- Grass clippings should be sundried for a day or two
- Leaves should be aged nine months





#### Why?

- Bountiful Harvest
- Pests bring disease & overpopulation, if left unchecked

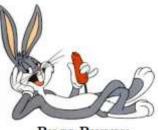
#### When?

- Before You Plant
- Inspect Purchased Plants
- During the Growing Season

- Encourage Beneficial Insects
- Hand pick & squash bugs/insects/eggs
- Plant During Specific Times
- Rotate your Crops
- Use Protections & Barriers



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**Bugs Bunny** 

The Bad and the Ugly



- Encourage Beneficial Insects
- Hand pick & squash bugs/insects/eggs
- Plant During Specific Times
- Rotate your Crops
- Use Protections & Barriers



## Brood X Cicadas (17 year)

## Spotted Lantern Fly





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#### Why?

- Improves Yield
- Maximizes Space
- Prevent Disease



#### When?

- As early as possible
- As the plant grows



#### How?

- Use store-bought supports •
- Make your own •
  - Poles •
  - Stakes
  - Fencing
  - String/rope/wire
  - Stockings
    Fabric ties









#### Why?

Improves Crop Yield



#### When?

- Before Planting
- During the Growing Season



#### How?

- 10-10-10; **5-10-5** 
  - First # is Nitrogen (N)
  - Second # is Phosphorous (P)
  - Third # is Potassium (K)
- A 100 lb bag of 10-10-10 will have 10lbs of N, 10 lbs of P and 10 lbs of K
  - The remainder is inert ingredients



#### How?

- Use a 10-10-10
  - One pound per 100 feet of row

#### • Use a 5-10-5

• Two pounds per 100 feet of row



#### How?

- One pint = 1 pound (approx.)
- Apply to Base of Plants Extending to Drip Line
- Avoid Applying Dry Fertilizer to Foliage
- Read the Instructions Carefully
- Wear Your PPE!





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## Overview: Keeping Your Garden Going!

Water Thinning & Weeding Tools Mulch Pest Control Plant Supports Fertilizer

## Contact Our Green Help Lines

County	Phone	Email
Clarke	540-955-5164	NSVMGA.info@gmail.com (include "Clarke County Gardening Question" in the subject line)
Frederick	540-665-5699	GreenHelpLine.FrederickCo@gmail.com
Page	540-778-5794	NSVMGA.info@gmail.com (include "Page County Gardening Question" in the subject line)
Shenandoah	540-459-6140	greenhelpline@gmail.com
Warren	540-635-4549	GreenHelpLine.WarrenCo@gmail.com



## Visit Our Seed Lending Libraries

- Clarke County Library, 101 Chalmers Court, Suite C, Berryville, VA 22611
- Page Public Library, 100 Zerkel Street, Luray, VA 22835
- Shenandoah County Library, 514 Stoney Creek Blvd, Edinburg, VA 22824

http://nsvmga.org/programs/seed-lending-library/



## Check Out Our Upcoming Events

- Future Beginning Vegetable Gardening Webinars
  May 20, 7 p.m.
  June 17, 7 p.m.
  July 15, 7 p.m.
- GardenFest, June 5, starting at 8 a.m. at Belle Grove
  - Gardening in the Valley **Tour**, June 26

NSVMGA website; Facebook



# QUESTIONS?



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• Hand tool care and safe use

https://www.pubs.ext.vt.edu/content/dam/pubs\_ext\_vt\_edu/BSE/BSE-51/BSE-323.pdf

• Tools for people with Arthritis

https://www.arthritissupplies.com/arthritis-gardening-tools.html

• Adaptive Gardening Tools

http://www.coaauw.org/2017/08/27/adaptive-gardening-tools-the-new-age-gardening-tools-which-dance-to-your-tunes/

• How to clean and sharpen your pruners

https://extension.unh.edu/blog/how-clean-and-sharpen-your-pruners

• Fertilizing the Vegetable Garden

https://www.pubs.ext.vt.edu/content/dam/pubs\_ext\_vt\_edu/426/426-323/426-323\_pdf.

• Fertilizing Vegetable Gardens

https://extension.unh.edu/resources/files/Resource000602\_Rep624.pdf

- Soil Sampling for the home Gardener https://www.pubs.ext.vt.edu/content/dam/pubs\_ext\_vt\_edu/452/452-129/SPES-176.pdf
- Organic controls for insects

https://www.pubs.ext.vt.edu/content/dam/pubs\_ext\_vt\_edu/456/456-018/ENTO-336B.pdf

• More on Cicadas

https://www.cicadamania.com/cicadas/category/broods/brood-x/

• Insect Management in the Home Garden U. of Florida Extension

https://edis.ifas.ufl.edu/vh036

• Vegetable Insect - Mite Pests

https://extension.umd.edu/hgic/topics/vegetable-insect-mite-pests

• Living with wildlife without losing your garden (VCE)

https://www.youtube.com/watch?v=tYKtv frxJA&t=1500s

• Identify garden pests. U. of Minnesota Extension

http://apps.extension.umn.edu/garden/diagnose/insect/garden/

• 2020 Pest Management Guide

https://www.pubs.ext.vt.edu/content/dam/pubs\_ext\_vt\_edu/456/456-018/ENTO-336.pdf

• Fertilizing Vegetable Gardens

https://extension.unh.edu/resources/files/Resource000602 Rep624.pdf

• Virginia's Home Garden Vegetable Planting Guide: Recommended Planting Dates and Amounts to Plant

https://www.pubs.ext.vt.edu/content/dam/pubs\_ext\_vt\_edu/426/426-331/SPES-170.pdf

• What's wrong with my plant?

http://apps.extension.umn.edu/garden/diagnose/plant/vegetable/

## Contact

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