Growing Groceries



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Notices

Master Gardeners provide a multitude of resources for home gardeners. This gardening information is research-based, available to the public, and focused on environmentally friendly and sustainable gardening practices.



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Tonight's Agenda

Cucurbits

- · Introduction to plant family
- Cucumbers
- · Summer Squash
- Melons
- · Winter Squash
- When Space is Limited
- · Pests & Diseases





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Cucurbitaceae

- Latin for Gourds, which come in a huge range of shapes, sizes and uses
- Native to the Andes & Mesoamerica
- About 985 species in 95 genera



The Cucurbits Mainly Grown in the PNW are Cucumbers, Summer & Winter Squashes



Zucchini - summer squash

Photo credits: Territorial Seed Co.

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Cucurbit Growing Needs

All cucurbits have a few growing needs in common

They all like:

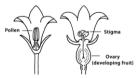
- Warmth
- Moisture
- Quick draining soil so they don't become waterlogged

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The Cucurbit Family need insects to pollinate







Male flower Female flower

http://extension.msstate.edu/publications/publications/growing-pumpkins-for-the-home-garden

Hand Pollinating ... when bees don't

- Remove male flower and expose stamen with pollen
- Leave as many pollen grains as possible



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Cucumbers (Cucumis sativus)

Greenhouse

- Telegraph Improved
- Poniente

Slicing

- Picolino
- Pepinex
- Sweet Slice

Pickling

Diamont



Cucumber (Cucumis sativa)

Soil Temp	Seed	Days to	Thin	Distance	Average	Hill Prep
for Germ.	Depth	Harvest	Plants To	Apart	Yield	
Minm. 55°F	1/4"	45 to 70	1 per hill	approx 3ft	Varies w/variety & culture	Good mix of compost and soil

- Direct seed late spring (row cover suggested) or plant in pots and move when soil temperature allows
- Easy to growFull sun best
- Harvest before they reach full size to keep them coming
- Best grown up trellis or similar
- n.b. 'Hills' are mounds of enriched earth which allow water to drain easily & heat by the sun
 Cucurbits do not like to sit in wet conditions

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Recipes

Cucumber salad

Canning pickles









Summer Squashes (Cucurbita spp.)



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Summer Squash varieties Cucurbita pepo













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Summer Squash (Cucurbita pepo)

Time to Plant	Seed Depth	Days to Harvest	Vine Spacing	Hill Spacing	Average Yield	Hill Prep.
After last major frost	1/4"	50-70 days	2 vines per hill	4' - 5'	10 -15 per vine	Good mix of soil & compost

- Best sown in spring
- Make hills free draining to encourage heating by sun
- Direct sow in late spring (suggest row cover)
- Start indoors 4 weeks before transplanting in late spring
- Harvest often for smaller fruit and better yield



Recipes









Zucchini fritters



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Melons (Cucumis melo & Citrullus lanatus)

Savor

- What do you want to eat?
 - Cantaloupe - Honeydew
 - Watermelon



- · What beauty do you want to look at?
- Orange SilverwaveAlvaro



Seed Selection

- •You like the flavor and texture
- ·Has disease resistance
- •Ripen in less than 80 days
- •If more than one type, get different ripening times



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Melons for Containers

- Cantaloupe
- Minnesota Midget
- •Watermelon
- Sugar Baby Bush
- Golden Midget



rites //www.rareseeds.com/uatermelon.supar.bahv.hus

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What I grew at BDG last year

AI VADO (E1)

65 days. A French Charentais type of melon with cantaloupe flavor. About 5 inches in diameter, ripen to an yellowish-tan, smooth skin with green striping. Creamsicle-orange flesh. Healthy plants set

about 5–6 fruit each. MINNESOTA MIDGET (OP)

65-70 days. An heirloom with mini cantaloupes - fruit 4–6 inches across with deep orange flesh. SUGAR RUSH (F1)

65–70 days. bulky, 4-pounders offer enough sweet, orange flesh for several generous servings from slightly elongated, well-netted fruit. The disease-resistant plants produce high yields very early in the season. For best flavor, harvest when the melion's background loses its green color.

Western WA Melon Timeline

•by 5/10 - plant seeds in 4" pots

- by 6/1 warm soil, cover with clear plastic
- by 6/15 transplant starts
 - -use plastic mulch-use row cover over seedlings
- by mid July remove row cover when flowers appear
- by late July first fruit set
- early to mid September first fruits ripen

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Potential Melon Problems

Diseases
Damping-off

Pests Slug/snail

Powdery mildew Brown marmorated stink bug
Fusarium wilt Spider mites

Fusarium wilt Spider mites
Verticillium wilt Squash bug

Consult WSU Hortsense to diagnose and treat

Cultural Problem – No female flowers or poor pollination

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High temperature, high rainfall and/or excess nitrogen may inhibit formation of female flowers.



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When to Harvest Melons

•Cantaloupe:

· Harvest when fruit slips from the stem

Honeydew & French Charentais

When leaf closest to the fruit turns brown or when melon color changes

Watermelons

When the tendril closest to the fruit is dry and brown or when the bottom side of the fruit is yellow



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Storing cantaloupe

- Most watermelon and honeydew melons do not continue to ripen once off the vine. Some varieties of honeydew will
- Cantaloupe can be harvested a little bit early (before full slip) and left to ripen on the kitchen counter
 Store at 36 to 41 °F, cantaloupes can last for up to 3



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Cucurbita genus

All Squashes (including Summer Squash) are in the Cucurbita genus This includes pumpkins and some gourds

Main species:
Pepo: (Latin for melon)
Varieties: Acom Squash, Delicata, Summer Squash (including zucchini), some specialty pumpkins
Originated in Northern Mexico and Southeast United States

Maxima: (Latin for Largest)
Varieties: Buttercup, hubbard, red kuri, kabocha, Giant Pumpkins
Stem will look like a dried rope.
Native to Central and South America
Maximas can be more susceptible to pests (vine borers, squash bugs and cucumber beetles.)

Moschata: (Latin for musky) Varieties: Butternut, honeynut and most pumpkins Native to Central and South America

What's the difference? Pumpkins and Winter Squash Shape, Color, Size & Use

Pumpkin Species















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Cucurbita pepo (Latin for melon)













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Cucurbita maxima (Latin for Largest)













Cucurbita moschata (Latin for musky)







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Winter Squash and Pumpkins (Cucurbita species)

Soil T		Seed	Days to	Thin	Row	Seed	Fertilizer
for Ge		Depth	Emergence	Plants To	Spacing	Life	Needs
65-8	5°F	1 - 1 1/2"	5-10	1-2/hill	3-6'	3-4 years	Medium to high

- · Needs fertile well drained soil
- Warm season crop!
- Monoecious: need bees and insects for pollination!
- Start indoors 3-4 weeks before transplanting (careful when transplant, roots don't like to be disturbed)
- Direct sow when soil 65°F
- Use floating row cover



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Harvesting Winter Squash and Pumpkins



- Leave on vine until mature; rinds should be firm
- Cut stems leaving 2-4 inches and wash
- Move to warm dry area to cure (time depends on variety)
- Store at 50-60°F with good air circulation

Curing and Storage Varies!

Squash	Curing Time	Storage		
Cucurbita pepo	not required	2-3 months		
Cucurbita maxima	10-14 days	4-6 months		
Cucurbita moschata	10-14 days	4-6 months		



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Squash soup



Squash, onion, apples, carrots, broth, and spices (curry - Indian or Thai)



Pumpkin puree, eggs, evaporated milk, sugar, and spices in butter crust

Roasted Squash
Squash (can be summer or winter),

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Growing Cucurbits: When Space is Limited



Container Options

Size

At least 5 gallons

•Features to consider

Self watering

•Reservoir, wicking fabric, fill port

- Wheeled
- Trellised



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Use Vertical Space

- Increases crop yields by 2 to 3 times better air flow & disease control
- Less damage to vines during harvest; more thorough harvesting
- · Fruit hangs vertically and ripens properly; can discolor on ground
- Prevents slugs from taking a bite







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Trellises

- •Vines will require some 'training'
- Size
- -4"x 4" or larger mesh (wire, plastic, fabric)
- •fruits may need support
- -3' x 5' structure area
- Features
- -Secure to surface/ground/container
- -Slightly angle supporting mesh
- -Sturdy enough for plant load & wind load
 - Additional support for heavier fruits

- Is it sturdy enough?
- Is it durable?
- Is it attractive (or at least not ugly)?



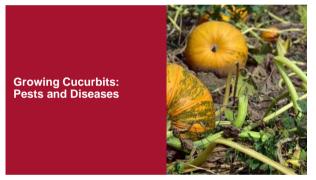
photo credit Territorial See

Trellis - Buy or Build

•Buy - multiple vendors

•Build - All New Square Foot Gardening Third Edition, includes step-by-step instructions (pages 98-105) to build three kinds of trellises.

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Integrated Pest Management (IPM)

- Prevent problems before they start
- Monitor with careful observation
- Identify pests
- Control with mechanical and biological practices first (not eradicate)





Squash Bugs

Affected Crops: squash, melons, and pumpkins

Prevention and Control

- Hand-pick and destroy eggs, nymphs, and adults
- Clean up debris



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Stink Bugs

Affected Crops: all members of the family

Prevention and Control

- Hand-pick and destroy eggs, nymphs, and adults
- Natural enemies: chickens, praying mantis, and others
- Row covers





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Spotted and Striped Cucumber Beetle

Affected Crops: all members of the family

Prevention and Control

- Pick and kill individual beetles
- Attract beneficial insects
- Row covers

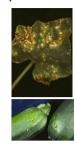


Angular Leaf Spot

Affected Crops: all members of the family

Prevention and Control

- · Plant disease-free seed
- Rotate crops
- Plant resistant varieties
- · Avoid over-watering



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Powdery Mildew

Affected Crops: all members of the family

Prevention and Control

- · Remove affected leaves
- Rotate crops
- Space plantings for air circulation
- Don't water from above
- Prevention: spray with 10% milk solution



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Cucumber Mosaic Virus

Affected Crops: all members of the family

Prevention and Control

- Plant resistant varieties
- Control aphids and beetles
- Control weeds
- · Remove infected plants





Verticillium Wilt

Affected Crops: all members of the family

Prevention and Control

- Rotate crops
- Plant when soil is warm
- Clean up debris







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Resources

- Home Vegetable Gardening in Washington, #EM057E
- Growing Cucumbers in Home Gardens, #FS096E
- Growing Squash in Home Gardens, #FS087E

HortSense: http://hortsense.cahnrs.wsu.edu/Search/MainMenu WithFactSheet.aspx?CategoryId=5&PlantDefId=55

Territorial Seeds:
 www.territorialseed.com



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Questions?



Seed Saving

Be careful if you save seeds!

- · Cross-pollination can happen between plants within in a mile of each other
- Hand pollination and sealing helps to prevent insects/wind from bringing in outside pollen
 Generally, stick to one variety of any species
- Seed maturity:
 - Color change
 - Hard Rind Stem Dry
- Winter squash seeds are mature when normally harvested Stored in cool dry conditions, seed can be viable for 6 years



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Protecting Our Unsung Heros, Our Pollinators Understanding King County Soils for Better Gardening Rain Gardens Sat. June 7

Caring for Community: Master Gardener Demonstration Gardens More info: https://kingcounty.mastergardenerfoundation.org/education

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Master Gardener Resources



MGF

Ask a Master Gardener

Visit: https://extension.wsu.edu/king/ ask-a-master-gardener

Become a Master Gardener

For information on King County Master Gardener training (including signing up for the email notification list), visit: https://extension.wsu.edu/king/ gardening/become-a-master-gardener

Applications for the 2026 class will open in September 2025

Thank you for the support!





- s://extension.wsu.edu/king/gardening Demonstration Gardens Plant Clinics
- Education Outreach
 Science-based Publications

http://www.mgfkc.org
Fundraising for these programs

More information about growing groceries: