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Colorado Gardening for Everyone **Advice and Observations from your CSU Extension Horticulture Agents and Specialists**

CO-Horts Blog

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Turning the page on a successful 2020 grape season in Colorado

Posted by: Miranda Ulmer, CSU Viticulture Extension Specialist

With grape harvest coming to an end, we are reflecting on what a year 2020 has been for us all, even the grapes in Colorado! However, despite many challenges, it has been a successful year. It all started when the 2019 harvest ended abruptly due to a cold front moving





Topics we'll cover tonight

- What is frost?
- Season extension options
- End of season vegetable gardening
- Perennial care
- Tree leaves and tree care
- Lawn care



What is "frost"?

- A light frost is 30-32 degrees F
- A hard frost is below 28 degrees F
- Physiologically, as temperatures cool, plant growth will start to slow; damage will not occur until temps are in the low 30s

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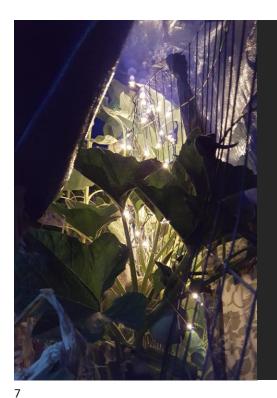


Thu 24	91 °/48°	i Mostly Sunny	/ 0%	🚔 SSW 7 mph	~
Fri 25	91° /51°	Partly Cloudy	/ 0%	🗢 WSW 10 mph	~
Sat 26	88°/48°	Partly Cloudy	/ 0%	W 10 mph	~
Sun 27	81 °/48°	Partly Cloudy	/ 0%	🗢 E 7 mph	~
Mon 28	87° /48°	💥 Sunny	/ 0%	🛶 WNW 9 mph	~
Tue 29	73° /41°	💥 sunny	/ 0%	🗬 NNE 10 mph	~
Wed 30	72° /40°	🔆 Sunny	/ 0%	💠 NE 6 mph	~
Thu 01	75° /42°	🔆 Sunny	/ 0%	👋 ENE 6 mph	~
Fri 02	77° /43*	💥 Sunny	/ 0%	🗢 NE 7 mph	~
Sat 03	75 °/41°	Partly Cloudy	/ 0%	🗬 NE 7 mph	~
Sun 04	76 °/43°	💥 Sunny	/ 0%	🗢 E 7 mph	~
Mon 05	79° /41°	Mostly Sunny	10%	🗢 NNW 5 mph	~
Tue 06	73° /39*	Kostly Sunny	/ 0%	🗳 E 6 mph	~
Wed 07	68°/38°	Partly Cloudy	/ 0%	ENE 6 mph	~

How to extend the growing season

- Consider covering crops with plastic sheeting, tarps, old blankets, boxes or other close-fitting cover
- Traps radiated heat from the soil at night and keeps the plants warm
- Remember to remove the covers the next morning—or you might do more harm than good





Using holiday lights (not LEDs)

This can help buffer temps +/- 6 degrees F

Annuals

- You can use covers or buckets to extend the life of your annuals
- Consider bringing them indoors
 - Careful of insect hitchhikers like fungus gnats and other creepies
 - Monitor water—may not require as much moisture
- Make cuttings!
- Call it quits



Annuals to Plant Now







Veggies: When Frost Takes 'em Out

- Some vegetables like the cold
 - Carrots, beets, parsnips, lettuce, broccoli and other cool-season crops thrive when daytime temperatures are below 65 degrees
- Some plants become "sweeter" with cold: Carrots and kale
- Air temperatures may be cold, but the soil is still warm >60 degrees F



Can I still plant fall crops?

- You could potentially plant a quick crop*:
 - Radishes (25 DTH)
 - Arugula (30 DTH)
 - Spinach (42 DTH)
 - Beet greens (30 DTH)
 - Kale (starting at 30 DTH)

*Be prepared to do season extension!



Celebrate National Kale Day October 2!

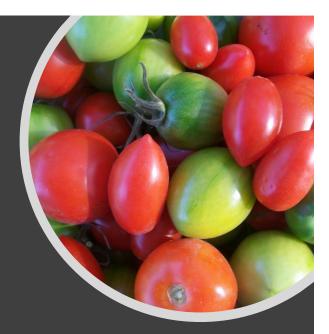


Potatoes: When Frost Takes 'em Out

- If the vines freeze, the tubers should be fine—but harvest ASAP
- Wipe off soil (don't wash) and store in a cool, dry place
- Do not put in the refrigerator

What About Tomatoes?

- By early to mid-September, clip off new growth and flowers to allow energy into existing fruit production
- Before frost, pick all mature green fruit from the vines





Tomatoes and the Fall

- Store green fruit in well-ventilated, open cardboard boxes to ripen at 55-70 degrees F
- Putting fruit in the fridge will not allow fruit to ripen
- Refrigerate only after ripened—or eat immediately!

Frosted Tomatoes

- If frost touches your tomatoes, it's time to bid them adieu
 - It's ok to eat them...if you're willing
 - Do not preserve them, as their acidity level is likely different from fresh tomatoes
- Truthfully, not really good eats



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What About Peppers?

- Pepper plants turn black with frost and the fruits quickly turn mushy and rot
- If you can't cover the plants, pick the peppers before <u>frost</u>

When Do I Harvest My Pumpkins?

- The stems will be dry and the skin resists penetration by a thumbnail
- Winter squash and pumpkins intended for storage should be harvested before a hard frost as it will damage rinds and shorten storage life

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Storing Pumpkins and Winter Squash

- Pumpkins will store for two to three months in a protected room where temperatures remain between 32 and 65 degrees F (basement, cellar)
- If they do get frosted on the vine, harvest them within a day or two and cook, freeze, or can them immediately



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Think Garlic!

- Garlic, shallots and some onions can be planted in the fall for harvest next spring and summer
- Buy seed garlic from a garden center or farmers' market—planting garlic purchased at the grocery store may not survive Colorado's winter
- Plant bulbs pointed tip up about 3 times as deep as the length of the bulb; water and mulch



Planting Garlic

- Dig a trench
- Push cloves into soil
- Cover with soil
- Water
- Harvest in July



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Clean Up the Veggie Garden

- After our wet spring, our vegetables had many fungal and disease problems
- If you had problems, do not allow these diseases to overwinter, so remove <u>all</u> plant material from the garden
- If the plant was diseased, <u>do not</u> compost—throw it in the trash
- Insect eggs, fungal spores and other organisms can overwinter in plant tissue or in the ground





Clean Up the Veggie Garden

- Make notes of where plants were located to practice crop rotation the following season
- Remove all trellises and tomato cages and clean them up and store for the winter
- Next summer, consider planting a cover crop, like rye or vetch, to till into the garden in late fall or spring for added organic matter and nutrients





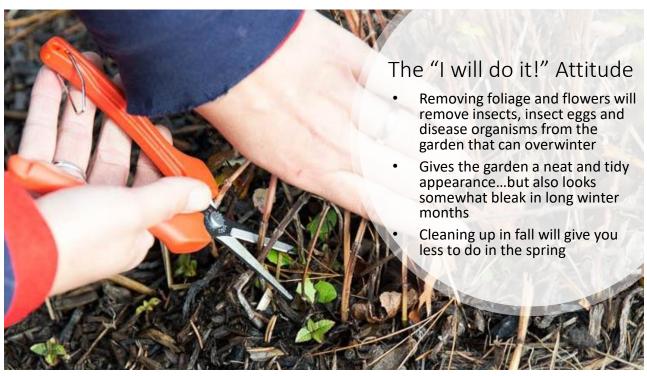


Fall Perennial Care

- Perennials are toted as "low maintenance" but often need some TLC in the fall
- Should I clean up? Should I wait?



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Reasons to Clean up in the Fall

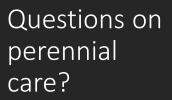
- Eliminate any overwintering organisms
- Remove most perennial foliage as it dies down, except for those with winter texture
 - Coneflowers
 - Ornamental grasses
 - Poppies
 - Black-eyed Susan





It's Important to Mulch

- Mulching plants (including perennials) will give plants added protection from wind
 - Especially important for newly planted plants
- Helps stabilize soil temperatures during freeze/thaw
- Prevents plant heaving, which can lift crowns above the soil, exposing them to freezing temperatures







What About All Those Leaves?!

- Fall weather gives us piles of leaves on the ground
- Leaves can be beneficial for the garden
- Instead of sending them to the landfill, consider using them all over the yard

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Leaf Use #1: The Lawn

- Using your lawn mower, remove the bag and make at least two passes over the lawn
- Research has found that chopped leaves left on the lawn will:
 - Return nutrients to the soil
 - Provide food for earthworms
 - Hold moisture for grass roots
 - Reduce weeds!!!!!



Mulch Leaves into the Lawn

- Leaves must be mowed and chopped into small pieces
- Whole leaves left on the lawn can cause fungal problems, which can lead to bigger issues in spring



Leaf Use #2: Your Plants

- Leaves make an excellent blanket for protecting perennials (and trees and shrubs) in winter
- If leaves aren't diseased, pile them around plants and let ones that blow into the garden settle there
- In spring, rake the leaves out and put them in your compost



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Leaf Use #3: Your Veggie Garden

- Consider adding shredded leaves to the vegetable garden
- Whole leaves can harbor insects and disease, so mulch them before placing them in the veggie bed
- Water regularly and fertilize to keep the microorganisms active
- Turn the leaves in the ground in spring for added nutrients





Leaf Use #4: Composting

- Rotting and dead plants can be converted to "gardener's gold" and used as a soil amendment to improve our hard, clay soils
- It's one of the best forms of recycling and relatively easy to do



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Fall tree care: Water

- Keeping watering trees and shrubs as long as you're able
- Once you've blown out the sprinklers, switch to a hose and sprinkler
- Water acts like an insulator—soil that stays moist will be warmer
- Plant cells that are plump with water will be less susceptible to damage from the cold

Fall and winter watering

- If 30 days elapse without significant precipitation (1" or more), then you should water trees and shrubs
- Water on days above 40 degrees, as early in the day as possible
- For trees, aim to apply about 5-10 gallons of water per trunk inch
 - It's not an exact science; *some water* is better than no water
- Use a hose and sprinkler—don't fire up the sprinkler system
- CSU Fact Sheet #7.211





It's Important to Mulch

- Mulching trees helps stabilize soil temperatures during freeze/thaw
- Prevents water loss from the soil
- Adds organic matter to the soil

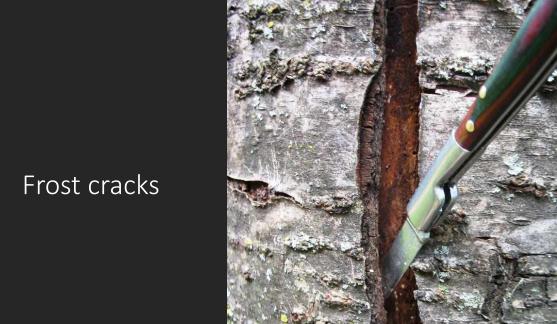
Wrap trees

- If you have young or newly planted trees, you should wrap them mid-November to mid-April
- Focus on thin barked trees such as linden, maples, ginkgo, fruit trees, buckeyes, etc.
- Tree wrap will help moderate freeze/thaw and prevent sunscald or frost cracks





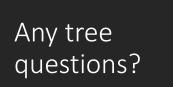
Sunscald





Tree Wrap

- Use crepe-paper wrap and start at the base
- Overlap each turn by 1/3
- End the wrap at the first branch









Should I Mow Shorter in Fall?

- One big myth in landscaping is to mow your lawn shorter in fall to prevent spring disease/fungal problems
 - This is not necessary
- Keep your mower set at the same height yearround (2.5-3" tall)
- Obey the 1/3 rule when mowing



Fall Lawn Fertilization

• Fertilizer companies will push "winterizer" for your turfgrass

TurfBuilder vs. WinterGuard





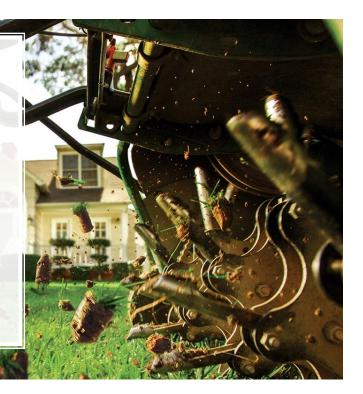
Should I Winterize My Lawn?

- "Winterizer" is a great marketing tool
- Fall is a **great** time to fertilize
 - 1 lb/N/1000 sq feet in early September
 - 1 lb/N/1000 sq feet in early-to-mid-October
- Good spring green-up, better weed competition and healthier roots
- Try to get your final fall application down by October 15

Fall Lawn Care Tips

A There

- Early fall is a great time to aerate the lawn
- Remember to blow out your sprinkler system (if you have one)
- Go after those perennial broadleaf weeds
 - Dandelion, plantain, white clover, mallow, bindweed and yarrow
 - Well-watered perennial weeds will absorb chemicals more quickly and lead to an earlier demise





Any lawn care questions?

Don't Forget Your Garden Tools!

- Clean up your tools in the fall...if you don't during the year
- Like most everything, taking the time to maintain and clean your tools can ensure a longer shelf life
- Remove all soil by rinsing the tools with water and use a steel brush to remove stubborn crust
 - Allow the tools to fully dry to prevent rust
- Wipe pruners, shears and loppers with an oily rag to prevent stiffening
- Sharpen pruners, shovels and loppers



Add Bling to your Spring with Bulbs

- Plant spring-blooming bulbs
- September and October are best planting months
 - Bulbs can root before the ground freezes
 - If planted after October, flowering can be irregular
- Bulbs grow best in full sun or part shade
- Flowers last longer if they do not receive mid-day sun
- Utilize spots under deciduous trees
 Squill, crocus, daffodils, snowdrops



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Allium sp. (Ornamental Onion)

Crocus vernus (Crocus)









Narcissus sp. (Daffodils)







Frittilaria sp. (Checkered Lily, Turk's Cap)

To Wrap it Up:

- Blow out your irrigation systems
- Get on mailing lists to receive seed and plant catalogs in winter
- Make notes of what went well during the garden season and what you need to improve
- Look at your yard and make plans to prune trees or shrubs in the dormant season (just before bud break)
- Plant pansies, mums, and spring bulbs for color



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More fall gardening classes!

Register at: CSUHort.BlogSpot.com Click on "Gardening Webinars"

Gardening Questions? Contact Extension.

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