

# SOUTH PLAINS **HORTICULTURE**

ISSUE 4 • JANUARY 2022



Texas A&M GRILIFE EXTENSION \*

Texas A&M AgriLife Extenstion Lubbock County presents

# WORKSHOP

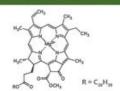
FRIDAY, FEBRUARY 18, 2022 | 8:30AM - 3:00PM | \$50.00 5 TDA CEUS | LUNCH PROVIDED TEXAS A&M RESEARCH CENTER 1102 E FARM TO MARKET **RD 1294 LUBBOCK** 

Pesticide Applicator License#: Ph. Number:

# **HOW DO EVERGREEN TREES STAY GREEN?**

Many trees drop their leaves in the fall, but others stay green even in the depths of winter. Here, we look at the ways in which some trees accomplish this and how they handle the cold.

## CHLOROPHYLL



Chlorophyli gives leaves and needles their reen color and is essential for phocosynthesis. In the fall, low light sevels and semperatures reduce production of chlorophyli (type a shown) in deciduous tree. It then breaks lown, allowling the yellows, cranges, and reds of catoenootd and anthopyanin pigments to become visible before the leaves fall off.



### WHY STAY GREEN?

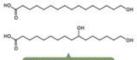






erous trees stay green in winter to conserves unsers skey green in winner to conserve nutrients (key notes shown above) in their needles. This is especially important in the nutrient-poor environments where these trees send to grow. By keeping their needles, the trees can conclude to make small amounts of energy through photosynthesis during winter.

#### STAYING ALIVE



## **EVERGREEN ANTIFREEZE**





Evergreen trees can also protect their needles from Ice damage using their own brand of anothreeze. During winser, sugars such as glucose) and other compounds become more concernraced within the cells of the needles, depressing the freezing point of where. In addition the errest produce annifereze proteins, which tand to loe crystals and inhibit their growth. These process force crystals to take on a hexagonal snape as opposed to he needlesies surcurses that damage cells. Calcium and hor mones such as ethylene and Jasmonic acid have been shown to regulate plant antificeze activity.

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TEXAS A&M

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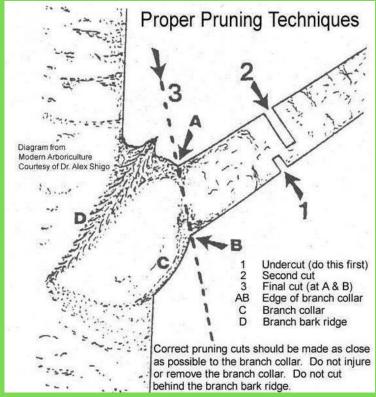
# PRUNING SEASON

Crape Myrtle is one of the most common, toughest, and showiest plants on the South Plains. Crape Myrtles come in many varieties, colors, and sizes making them an excellent choice for nearly everyone! Unfortunately, there has been this horrible "ritual" of butchering them every year put into practice.

Topping Crape Myrtles causes permanent scars and makes a profusion of smaller branches resulting in a lack of proportion. All trees have a characteristic shape. It just so happens that crape myrtles have one of the most beautiful. Topping does create larger blooms, though fewer of them. Unfortunately, these larger blooms on new young shoots tend to flop over and droop after summer rains or break in high winds.

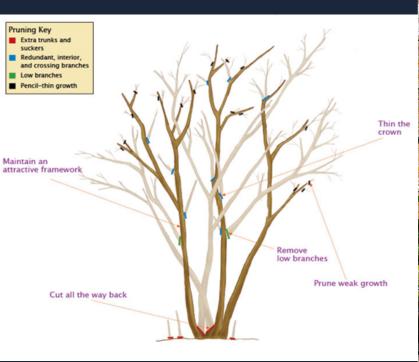
The only real pruning crape myrtles require is to thin out the trunks on young trees leaving somewhere around 3 to 7 permanents trunks/canes. Odd numbers are always best. The fewer you have, the more you can admire their shape and smooth texture. Each year around early spring, all you do is remove any new suckers that appear from the ground. Make sure to cut suckers back all the way to the soil line. Removing dried pods during the winter doesn't promote any more bloom during the summer. Removing them during the summer does promote faster re-bloom, however. This "old saying" of pruning back to pencil size wood comes from recommendations from the 1960's and is antiquated.

Occasional pruning to remove weakened, broken or low branches can also be needed thourghout the growing



Above: Shows how to properly prune a large or heavy tree branch. Remember to paint all pruning cuts.

Below: The Winterhur Museum, Delaware dried flowers Christmas tree



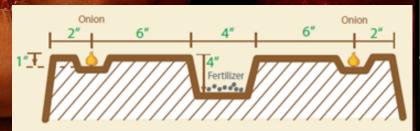


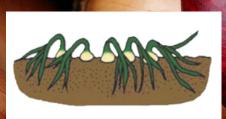
# PLANT SOON FOR SPRING HARVEST

# What You Need To Know

- Start looking for onion sets (as opposed to seeds) now for onion planting in February.
- The size of the onion bulb is dependent upon the number of green leaves at the time of bulb maturity. For each leaf, there will be a ring of onion.
- Onions are characterized by day length:
  - long day" onion varieties will quit forming tops and begin to form bulbs when daylight reaches 14 to 16 hours (better in states north of the 36th parallel)
  - short day" onions will starting making bulbs at 11 to 12 hours of daylight (better in states south of the 36th parallel)

Short o	lay (11–12-hour day length)			
Yellow	Chula Vista, Cougar, Jaguar, Legend, Linda Vista,			
	Mercedes, Prowler, Safari, Sweet Sunrise, TX 1015Y,			
	Early Grano 502, Granex			
White	Cirrus, Marquesa, TX Early White, Crystal Wax			
Red	Red Bone, Rio Santiago, Sakata Red, Red Burgandy			
Interm	ediate day (12–13-hour day length)			
Yellow	Caballero, Cimarron, Riviera, Utopia, Yula			
White	Alabaster, Mid Star, Sierra Blanca, Spano			
Red	Fuego			
Long day (14–16-hour day length)				
Yellow	Armada, Capri, Durango, El Charo, Ole, Seville,			
	Sweet Perfection, Valdez, Vaquero, Vega			
White	Blanco Duro, Sterling, White Spanish Sweet			
Red	Tango			





Above: Shows proper trench and onion planting.

Left: Shows onion tops flopped over signaling time to harvest.

- Onions grow best in full sunlight and well draining soils.
  - Work the garden soil only when it is dry enough to not stick to garden tools.
  - Soil should be loose and crumbly 8 to 10" deep.
  - Remove all rocks. If your soil is compacted, work in compost to improve aeration and drainage.
- Onions prefer soil with a pH between 6.2 and 6.8.
- Apply fertilizer (10-20-10) 2-3" below sets at planting time.
- Plant the onions 6" from the edge of the trench on both sides of the trench at 1" deep 3" apart. Do not plant the onions in the trench!
   Leave a 2" margin between the onions and the outside edge of the bed.
- Water thoroughly after planting, and regularly thereafter. If leaves develop a yellow tinge, cut back on watering. The closer to harvest time, the greater the need for water. However, when the onion tops start falling over, stop watering and let the soil dry out before harvesting.
- When caring for the onions during the season, do not allow weeds to mature near onions.
- Nutritional needs are different during the growing season.
  - Every 2 to 3 weeks after planting, fertilize with ammonium sulfate (21-0-0) in alkaline soils. Water the onions after every application. Stop fertilizing when the onions start to bulb.
- When the tops of the onions turn brown and fall over, it's time to harvest. Ideally, the plant will have about 13 leaves at this point.

# VEGGIE PREPARATIONS

# CAULIFLOWER

TIPS ON PROPERLY WASHING, HANDLING, CUTTING AND PREPARING VEGGIES



Wash 1 crown of cauliflower, and cut away the large stems.



Cut the small as





Fun to make with children!

# H. Easy Cauliflower and Broccoli

Prep time: 15 minutes

Cook time: 10 minutes Serves: 8

Serving Size: 1/2 cup

### Utensils needed

Knife Cutting board Large skillet with lid

Measuring cup Measuring spoon

# Nutrition Facts

Calories 110 Calories from Fat 45 Total Fat 5g 8% 13% Saturated Fat 2.5g Trans Fat 0g 5% Cholesterol 15ma Sodium 290mg 12% Total Carbohydrate 8g 3% Dietary Fiber 2g 8% Sugars 3g

Calcium 35	% • 1	ron 4%			
*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs: Calories: 2,000 2,500					
Total Fat	Less than	65g	80g		
Saturated Fat	Less than	20g	25g		
Cholesterol	Less than	300mg	300mg		
Sodium	Less than	2,400mg	2,400mg		
Total Carbohydra	300g	375g			
Dietary Fiber	250	30 a			

Protein 9a

www.jmgkids.us/LGEG

### Ingredients

- 4 cups of cut cauliflower florets
- 4 cups of cut broccoli florets
- 1/2 cup of water
- 4 ounces of fat-free cream cheese, cubed

1/2 cup of plain low-fat yogurt

1/4 cup of skim or I percent milk

- 11/2 cups of shredded, reduced-fat. sharp cheddar cheese
- 10 crackers, crushed (about 1/3 cup)
- 3 tablespoons of grated Parmesan

#### Directions

- 1. Wash your hands and clean your cooking area.
- 2. Rinse the broccoli and cauliflower. Cut the florets into small "bite-
- 3. Place the vegetables and 1/2 cup of water in a large skillet. Cover the skillet with a lid and allow the vegetables to steam over high heat for 3 minutes or until they are tender.
- 4. Add milk to the skillet. Reduce the heat to low.
- 5. Cut the cream cheese into cubes and add them to the skillet. Allow the cream cheese to melt. Stir it occasionally.
- 6. Add the yogurt to the skillet. Stir to coat it.
- 7. Sprinkle the shredded cheddar cheese over the vegetables and allow it to melt.
- 8. Mix the cracker crumbs and Parmesan cheese; sprinkle the mixture over the vegetables.

## Kitchen math and science

1. What parts of the cauliflower and broccoli are edible (Circle two)?

> Roots Leaves Flower Fruit Seeds

- 2. Look at the nutrition label for this recipe. If you eat one serving (1/2 cup), how many calories will you have eaten?
- 3. How many calories would be in 2 servings? \_\_\_
- 4. What is the first step in this recipe? \_\_\_\_\_
- 5. Which is more: 3 tablespoons or 1/2 cup?\_



How the children can help: Wash the produce, measure the ingredients, crush the crackers, mix the crushed crackers with the Parmesan, and sprinkle the cracker mixture over the vegetables



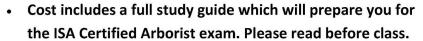
# CERTIFIED ARBORIST TRAINING



# Benefits of this training:

- 18 hours of focused training from experts
  - Divided into two sessions
    - February 10 and 11 2022
  - Time: 8:00 a.m. to 5:00 p.m. (Lunch and Snacks provided)
  - Location: Texas A&M AgriLife Research Center,
     1102 E Farm to Market Road 1294 Lubbock, 79403

(Large Auditorium)





FREE with registration! Arborist Certification Study Guide (\$125 value)

# To register:

- Cost: \$300 per person, Registration required by Thursday, January 13, 2022 to (806) 775-1740
- Mail check to Lubbock County Extension PO Box 10536 Lubbock, TX 79408 payable to Agrilife Extension Acct. 272113 (no credit cards)

The tree care profession has experienced rapid growth over the past decade and there is a significant amount of knowledge required to perform at the highest level. International Society of Arboriculture (ISA) credentials help consumers identify qualified, knowledgeable tree care professionals. <sup>1</sup>

This course will help prepare professional arborists to take the ISA Certified Arborist examination.

**Topics include:** Tree Biology, Identification, Water Management, Tree Nutrition, Tree Selection and Pruning, Plant Health Care, Tree Assessment, Trees and Construction, Urban Forestry, & more!



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¹ International Society of Arboriculture (ISA). <a href="https://www.isa-arbor.com/certification/benefits/index.aspx">https://www.isa-arbor.com/certification/benefits/index.aspx</a> Christina Reid, CEA-Horticulture Lubbock County christina.reid@ag.tamu.edu
(806) 775-1740



Red grapefruit is the state fruit of Texas. It was discovered growing on a pink grapefruit tree in Texas' Rio Grande Valley. It has a tangy, sweet taste and can be juiced, sliced in half or divided into several sections. Texas citrus fruits grow in places with lots of sunshine and soft ground. Varieties like Rio Star, Flame and Ruby Sweet can be found in supermarkets from October through May.



# **DID YOU KNOW?**

A grapefruit has lots of vitamins A and C, so eating a ruby Texas red grapefruit or drinking its juice helps keep your skin and your eyes healthy, and helps protect your body from getting a cold or the flu.

# **FUN FACT**

Grapefruit got its name from growing in bunches just like grapes.



Rio Grande Valley









