

# PRUNING OF TREES AND SHRUBS

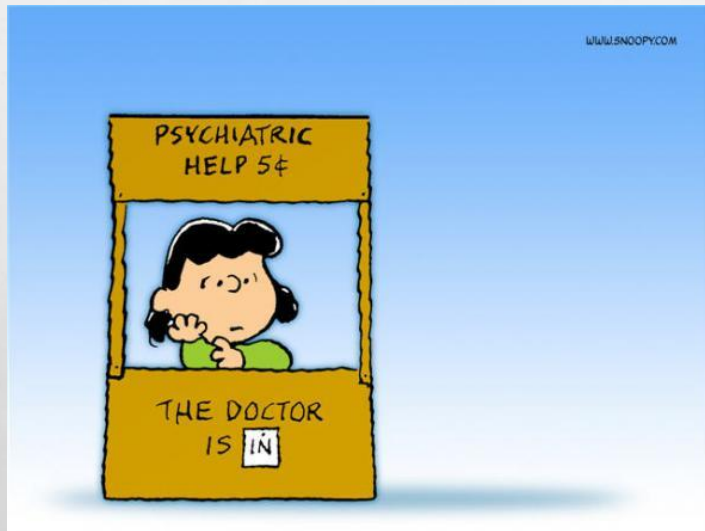
DANIEL BAUER

ISA BOARD CERTIFIED MASTER ARBORIST



# 2 SIDES TO PRUNING

## THERAPY FOR US



## STRESS TO PLANTS



# WHY STRESS AND RESULTS



**LOSES LIVE TISSUE FOR  
PHOTOSYNTHESIS**



**OPENS WOUNDS NOT  
NORMALLY ON TREE**



**CHANGES RATIO OF ROOTS  
TO BRANCHES**



**ATTRACTS INSECTS WITH  
STRESS PHEROMONES  
(ALCOHOL)**



**CREATES OLD DEADWOOD  
FOR FUNGI TO FORM ON, IE.  
STUB CUTS**

# RESULTS OF IMPROPER PRUNING



**Increased Insect Infestation**



**Disease**



**Less Flowering**



**Less Fruit**



**Improper structure, weak branch Attachments**



**Increased Stress on top of Water, Sunlight, Nutrients, ETC.**



**Death**

# STEP 1- SET OBJECTIVE



**WHAT ARE YOU  
PRUNING- TREE OR  
SHRUB**



**WHEN ARE YOU  
PRUNING- TIME OF YEAR**



**TOOLS REQUIRED FOR  
TASK**



**SKILL LEVEL**

# STEP 2 IDENTIFY OBJECTIVE



# STEP 3- PRUNING METHODS

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**Clean- dead or Diseased limbs**

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**Raise- lower crown**

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**Reduce- height and/or sides**

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**Structural- developmental**

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**Restoration**

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**Espalier**

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**Pollarding**

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**Thin- up to 25%**

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**Palm- dead brown Fronds only**

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**\* Never More Than 25% of live Canopy to be taken\***

# TIMING OF PRUNING

## SPRING AND FALL

**ACCORDING TO SHIGO (1989) AND NEELY (1970) THE TWO TIMES YOU DON'T WANT TO PRUNE**

## PLANTS THAT FLOWER

**DOES IT FLOWER DURING SUMMER OR FALL ON CURRENT SEASON'S GROWTH, IE. GRAPE MYRTLE OR ROSES- PRUNE IN WINTER**

**DOES IT FLOWER DURING SPRING ON 1 YEAR OLD WOOD, IE. FRUIT TREES, AZLEAS- PRUNE AFTER BLOOMING PERIOD**

## WEATHER

**PRUNING TOO CLOSE TO SPRING CAN CAUSE EXTREME SAP FLOW OR "BLEEDING"**



# ESPALIER

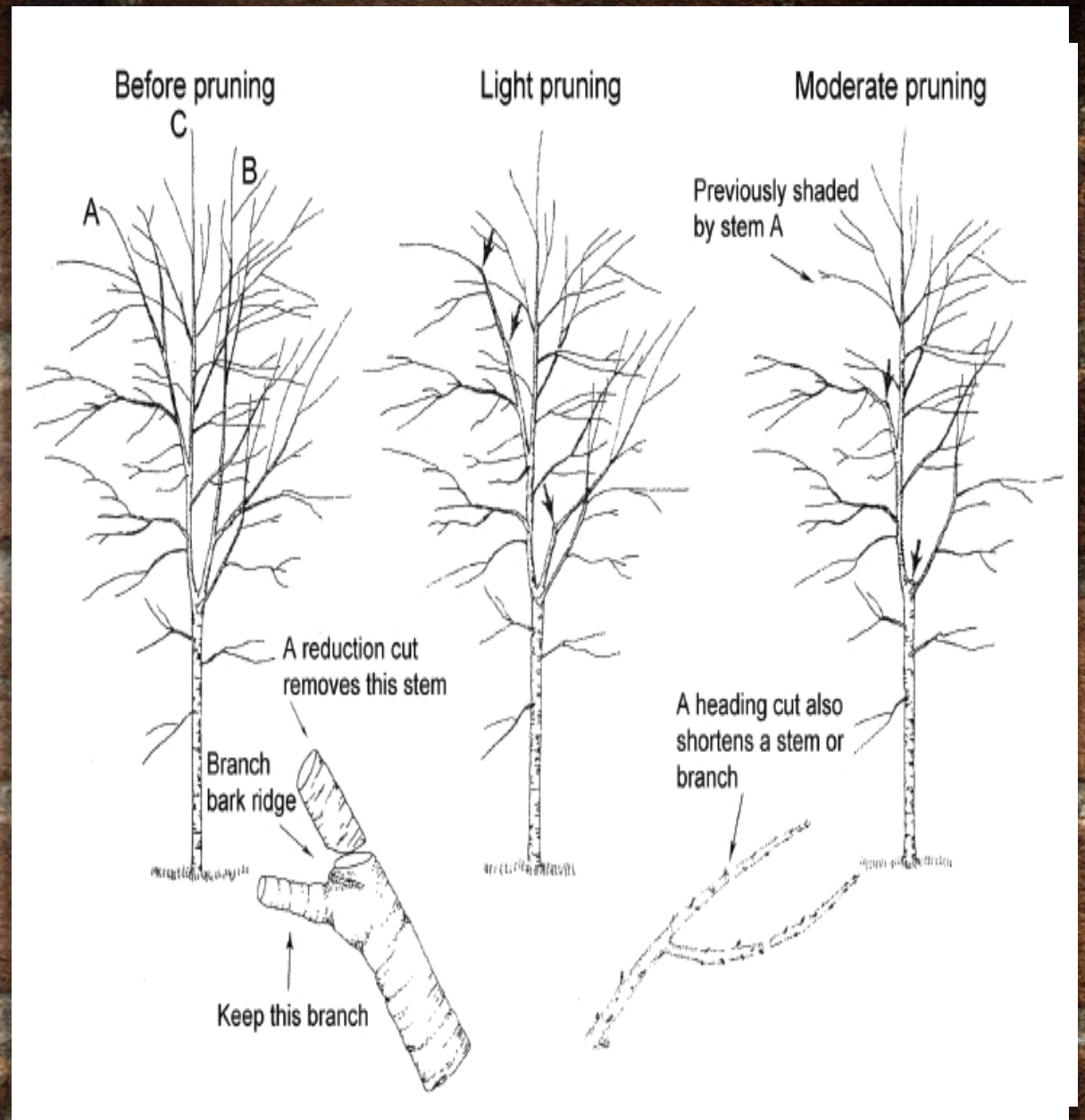


# POLLARDING

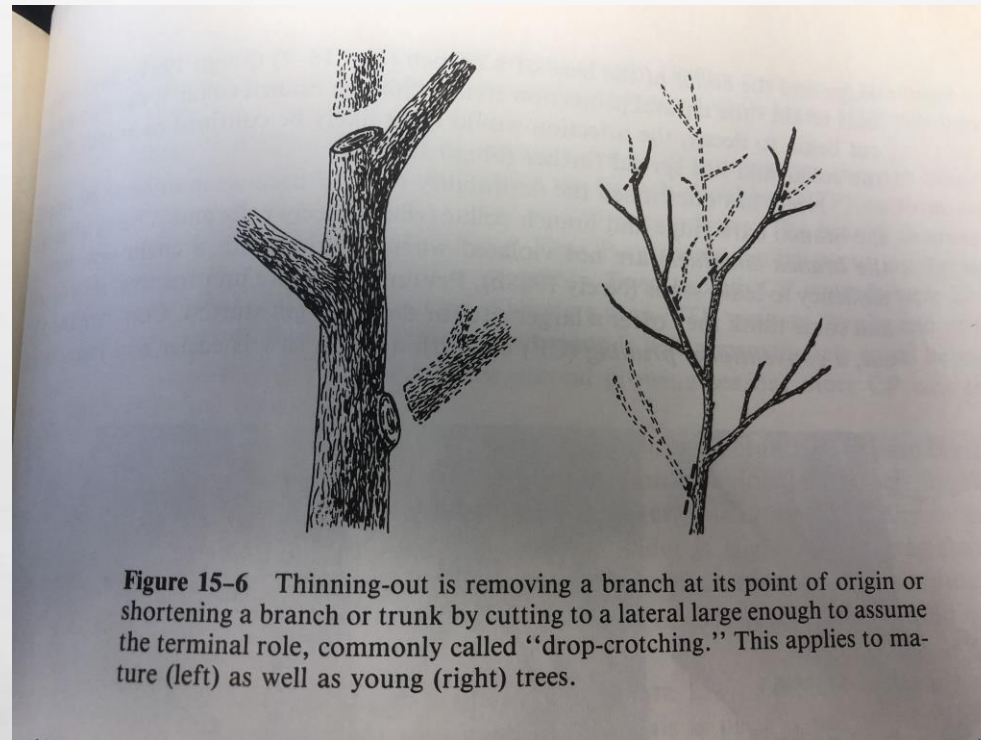


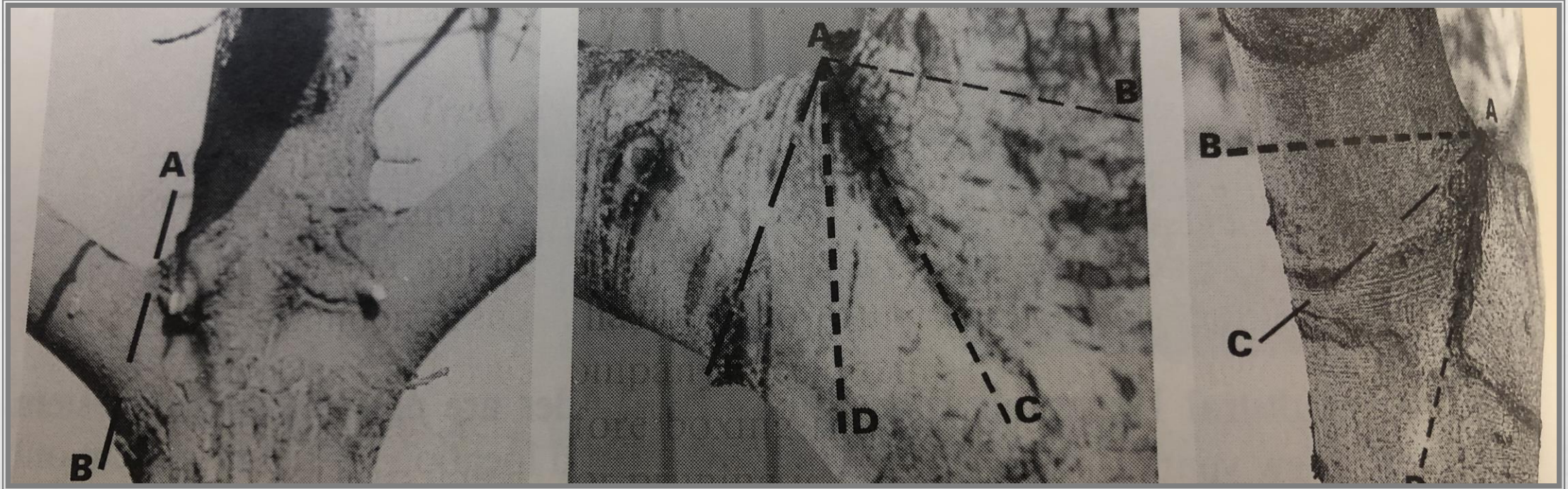
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# PROPER STRUCTURAL PRUNING



# CUTTING BACK





## IDENTIFYING PROPER PRUNING CUTS



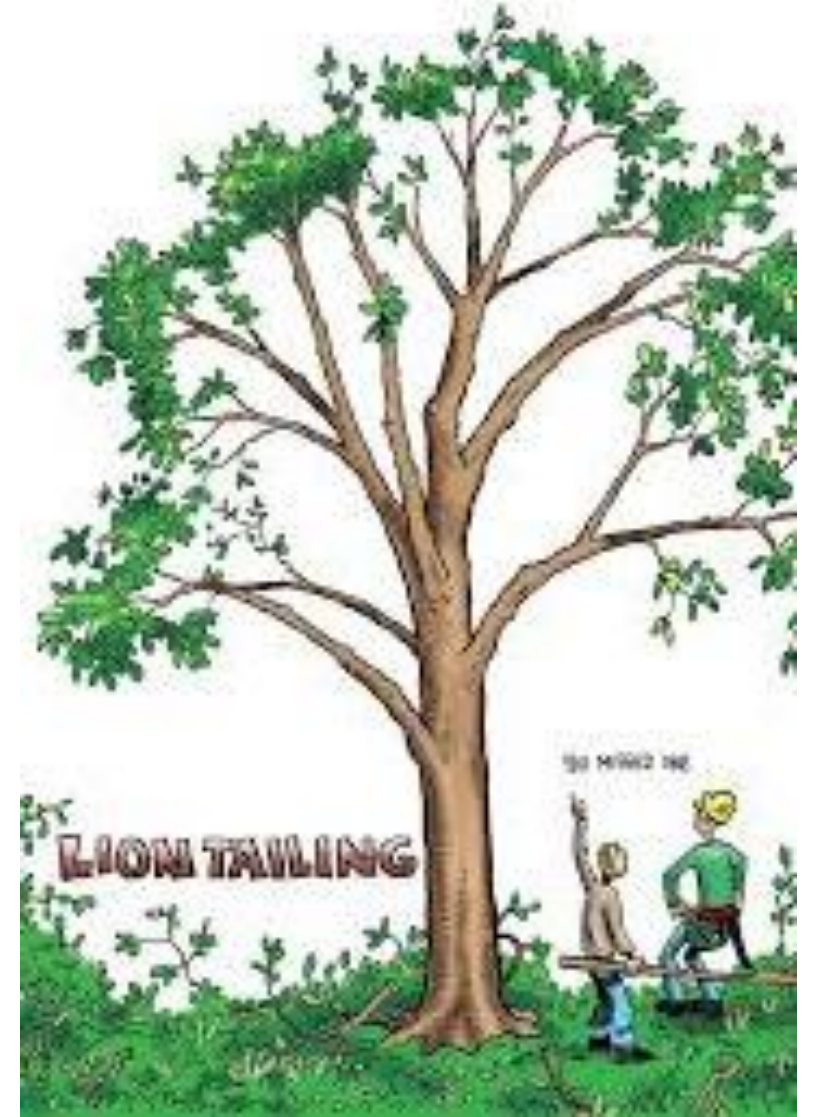
**TOPPING OR  
LION'S TAILING**



# **TOPPING IS NOT A VALID PRACTICE**



# LIONS TAILING OF TREES





**ALSO NOOOOO CRAPE MURDER!!!!!!**



**FOR THE RECORD, THIS IS BAD**



# PROPER PRUNING CRAPEMYRTLES

**SINGLE STEM**



**MULTI-STEM**



# SHEARING OF SHRUBS



# PROPER BRANCHING AND LESS WOUNDS





**SAFETY GEAR**



# SAFETY PPE



**HARDHAT**



**GLOVES**



**SAFETY GLASSES**



**HEARING PROTECTION**



**CHAINSAW CHAPS**



**GOOD FOOTWEAR-  
TRACTION**



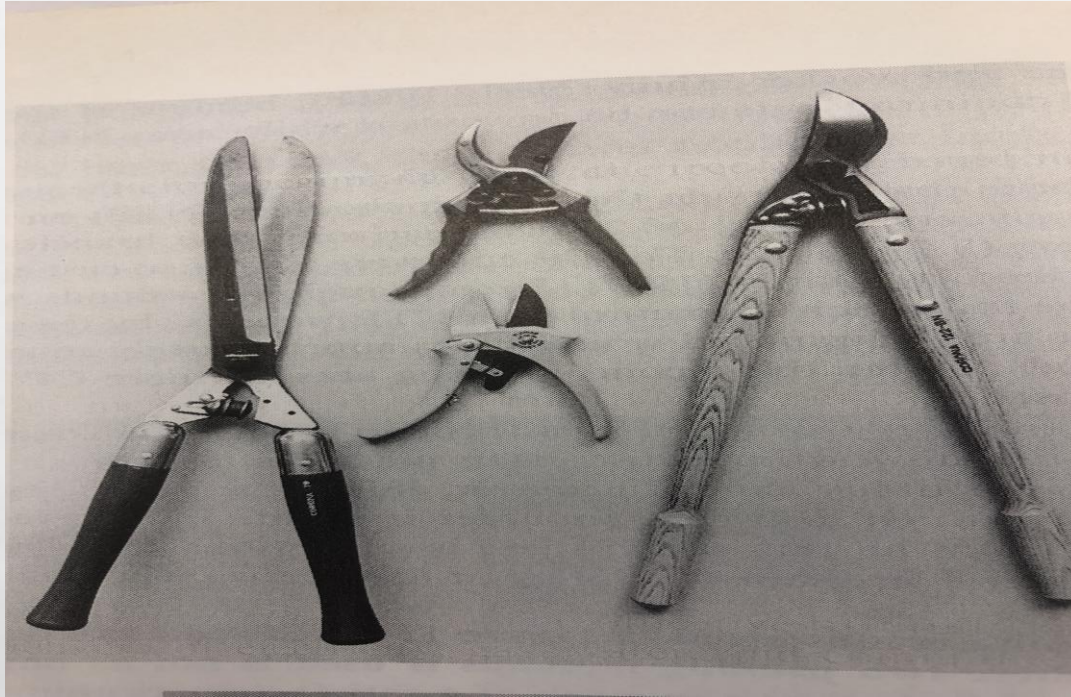
**NO LADDERS!!!!!!-  
90,000 INJURIES A  
YEAR, 700  
OCCUPATIONAL  
DEATHS/YEAR**

# TOOLS TO PROPERLY PRUNE

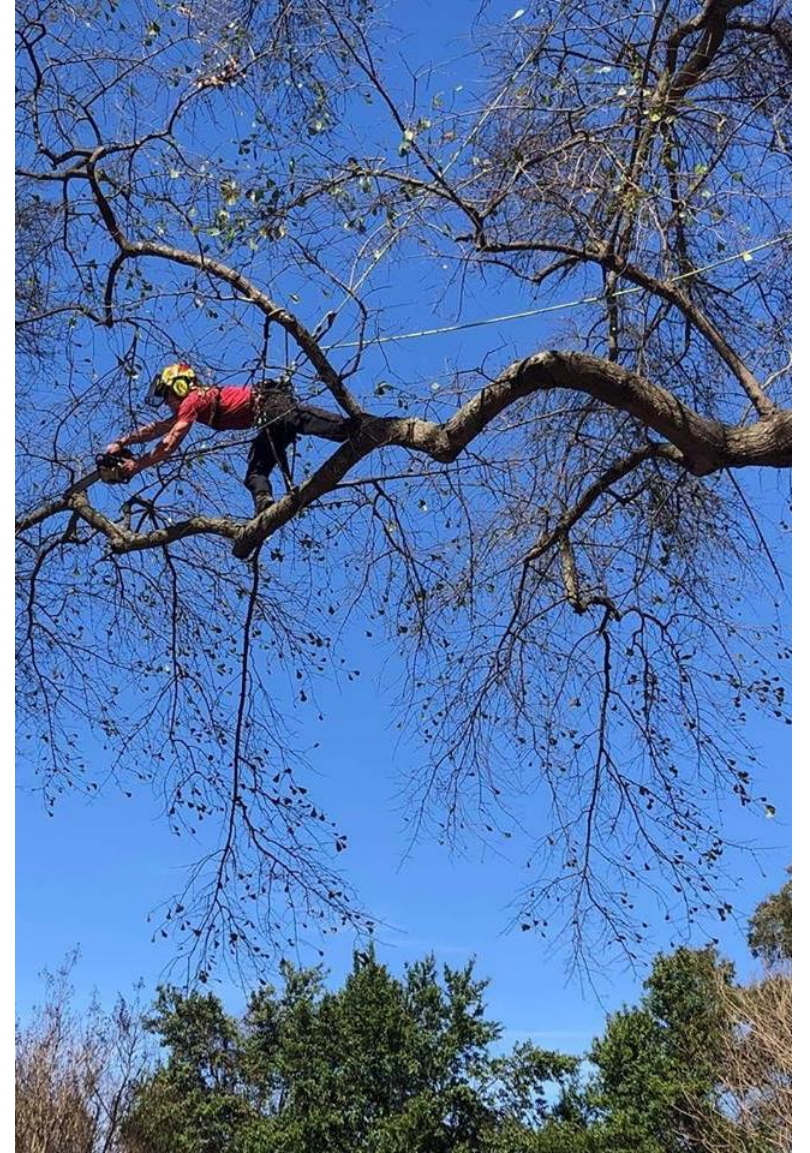
- **HANSAW**
- **HANDSNIPS (NOT ANVIL STYLE, SCISSOR STYLE SIMILAR TO FELCO)**
- **LOPPERS**
- **POLE SNIPS**
- **SHEARS?**
- **CHAINSAW**
- **POWER POLE PRUNER**



# TOOLS



# KNOW YOUR LIMITS



# KNOW WHO TO HIRE

## **SIDE JOB BOB**

- **DOES IT PART TIME**
- **OWNS A LIFTED PICKUP TRUCK**
- **USES THE WORDS BONDED AND INSURED**
- **NO SAFETY GEAR**
- **WILL DO IT FOR \$100 LESS THAN ANYBODY ELSE**

## **PROFESSIONAL PETE**

- **HOLDS CREDENTIALS**
- **WEARS SAFETY GEAR**
- **ACTS IN PROPER BUSINESS FASHION**
- **LOGO WEAR**
- **KNOWLEDGEABLE ABOUT THE PROCESS**

# ONE MORE TIME!!

## PROPER METHOD OF PRUNING CRAPE MYRTLE



This plant, pictured before pruning, needs to have all weak and dead stems removed.



Same shrub after removal of weak and interfering wood and base sucker growth.



Results of proper pruning are graceful, vigorous growth with distinctive shape.

## IMPROPER METHOD OF PRUNING CRAPE MYRTLE



Cutting at the dotted line is the usual course taken by those who prune shrubs.



The same plant after bad pruning, as indicated above. The sucker growth remains.



Results: the lovely natural shape of the shrub is lost, and bloom will be sparse.



**ANY QUESTIONS?**

