

# ***PLANT PROPAGATION STEM CUTTINGS***

Texas Master Gardeners  
Tarrant County



**STEM CUTTINGS ARE:**

**QUICKER**

**EASIER**

**CHEAPER**

**EXACT CLONE OF PLANT**



**ONE DISADVANTAGE IS NO GENETIC  
DIVERSITY**

# **DIFFICULTY**

**After stem is separated from parent plant, it has to survive while it is developing roots. It is important that you:**

- \* Provide proper water**
- \* Temperature**

# TYPES OF CUTTINGS:



**\*HARDWOOD**

**\*SEMI-HARDWOOD**

**\*SOFT WOOD**

# ROSES

- \*Can be rooted anytime of year**
- \*Cool months best**
- \*Preferable fall**
- \*Stem that has recently bloomed**
- \*Take 6-8” cuttings**
- \*Like bright light but not direct sun**



# Avoid Cuttings with New Growth



# **DON'T LET CUTTINGS DRY OUT**

**After you take your cuttings, be sure to put them in a baggie, a cooler, refrigerator or some water until you can “stick” them in medium.**

# MATERIALS NEEDED

- ▣ Material List
  - 5" - 6" Pot
  - Soil or Perlite / Vermiculite Mix
  - Rooting Hormone
  - Scissors or Hand Pruners
  - Pot Label
  - Clear Soda Bottle w/cap or clear gallon baggie



\* Cuttings



# HOW TO TAKE CUTTINGS:



- 4 – 6 INCH CUTTING
- SLANT CUT BELOW A NODE

# Fill Container



# **PREPARE CUTTINGS**

- \*RE-CUT STEM TO DESIRED LENGTH**
- \*ALWAYS CUT BELOW A NODE WITH A SLANT CUT**
- \*REMOVE LOWER LEAVES**
- \*PUT CUT STEMS IN GLASS OF WATER**

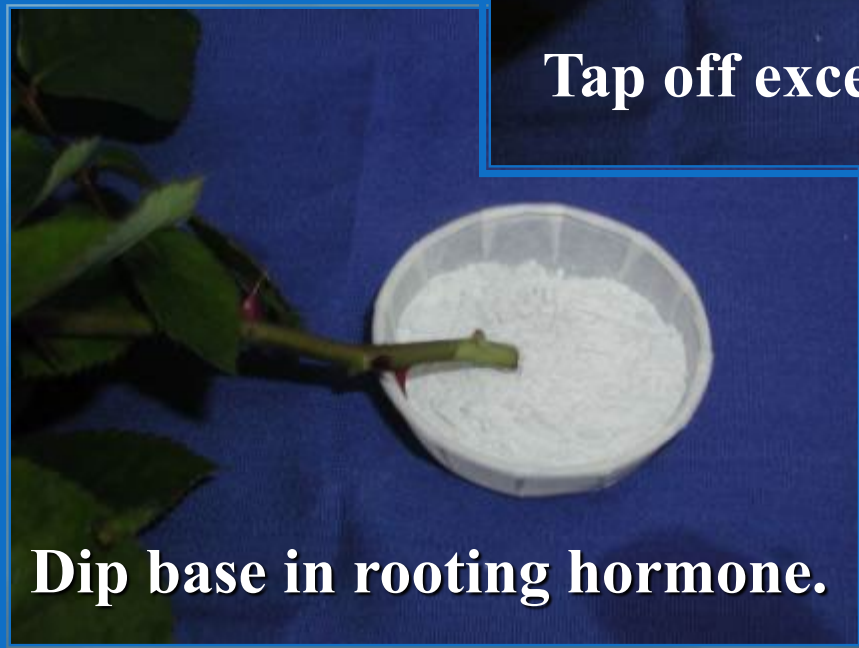




# Apply Rooting Hormone



**Tap off excess hormone.**



**Dip base in rooting hormone.**



**Coat lower  $\frac{1}{2}$  -  $\frac{3}{4}$  inch.**



# Stick Cuttings



# Prepare soda bottle.



Cut off the bottom of the soda bottle.



# Making a Mini-Greenhouse.



## **AFTER CARE**

- \*PLACE IN AREA WITH GOOD LIGHT**
- \*NO DIRECT SUNLIGHT**
- \*DON'T LET MEDIUM DRY OUT**
- \*AVOID EXCESSIVE WATERING**
- \*MAINTAIN HIGH HUMIDITY**
- \*MOST CUTTINGS WILL ROOT IN A FEW WEEKS**



# Root Development



Well developed root system.

# Transplant Cuttings

Well rooted cutting.



Place in potting soil.



Fill and fertilize.





# Label and Water



# Established Plant Ready for Planting





# *The End*

TEXAS A&M  
**AGRILIFE**  
EXTENSION

