## The Do's and Don'ts of Pruning



































#### Wound Dressings DON'T Help!

- Can crack when exposed to sun
- Allows moisture to accumulate behind the dressing
- Actually can promote more disease problems
- Only makes YOU feel better



# Types of Pruning Cuts Heading Cut stem back to a bud (selective) Pruning is local in effect! Releases apical dominance













Types of Pruning Cuts





Avoid reduction to a weaker branch with a close to 90 degree angle to branch origin





#### Types of Pruning Cuts

- 3. Deadheading/Pinching
- Advantages (cont.):
  - Prevents seed/fruit
     formation
  - Continued productivity in most annuals and perennials







#### General Seasonal Effects

- Dormant Pruning
  - Done in LATE winter few pests, architecture visible
  - Deciduous plants = less impact on plant vigor
  - Evergreens = least amount of setback stress



### General Seasonal Effects Spring Pruning

- Bud-break up to shoot expansion
- Caution bark
   slipping



#### []]]] General Seasonal Effects

- Spring Pruning
  - Early to late spring pruning:
    - This encourages even
       more growth
    - Sap flow is heavy
  - Oaks and Elms = NOT during growing season!



#### General Seasonal Effects

Summer Pruning = end of growth flush

- Remember indeterminate & determinate growth
- Best time for heavy bleeders
- Redirect growth of younger plants
- Pinching back, deadheading, dwarfing
- General light maintenance 3 D's

#### General Seasonal Effects Fall Pruning = end of all growth flushes

• NOT a good time:

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- Decay fungi are sporulating
- Not enough time to heal
- May force late shoot growth
- Must consider when plants flower new or old wood?

#### Avoid pruning in late fall / early winter!

- Apple trees on left unpruned
- Trees on right pruned Dec. 10
- Cold injury caused by early winter pruning!



#### Pruning at Time of Planting

- Remember purpose in landscape
- Bare-root to develop canopy
- Container, B&B = thinning & 3D's



#### Pruning According to Plant Type

1. Broad-leaved Evergreens

- Right space = very little pruning
- Before period of fast growth late winter
- Too early or too late = damage
- Limited latent buds



#### III Pruning According to Plant Type

- 1. Broad-leaved Evergreens
  - · Deadheading to improve branching & flowering





#### IIII Pruning According to Plant Type

- 2. Conifers and Narrow-leaved Evergreens
  - · Maintain primary leader
  - · Late winter prune to limb up or thin
  - Late Summer or Fall prune = injury



#### III Pruning According to Plant Type

- 2. Conifers and Narrow-leaved Evergreens
  - Pinching candles timing critical
  - Shoot expands before needles
  - Leave part of candle for bud set -



#### Pruning According to Plant Type

- 2. Conifers and Narrow-leaved Evergreens
  - Mugo pine to control height



### Pruning According to Plant Type 3. Evergreen Shrubs Selective heading and

- thinning
- Shearing last resort
- Juniper, Taxus, Arborvitae, Chamaecyparis



#### Pruning According to Plant Type

- 4. Deciduous Shrubs
  - Thinning cuts
  - Important on multi-stem species



#### Pruning According to Plant Type

- 4. Deciduous Shrubs
  - Heading cuts and deadheading
  - Dieback shrubs
  - Hydrangea
  - Callicarpa
  - Buddleia

#### Pruning According to Plant Type

- 5. Shade Trees
  - Primarily thinning cuts
  - Remember 3-cut method!
  - 3 D's and limbingup



#### Pruning According to Plant Type

- 6. Flowering Trees and Shrubs
  - · Based on time of bloom!
  - Old or new wood
  - May rule



#### Pruning According to Plant Type

- 6. Flowering Trees and Shrubs
  - Old Wood:
    - Forsythia, viburnum, quince
  - New Wood:

-

 Rose of Sharon, *Clethra*, Buddleja







#### Pruning According to Plant Type

- 8. Clematis Group 1
- Flower on new wood
   in summer
- Prune back to lowest pair of strong buds late winter each year



#### Pruning According to Plant Type

- 8. Clematis Group 2
- Flower on old wood in the spring
- Prune immediately
   after flowering
- Most will tolerate drastic cutting back



#### IIII Pruning According to Plant Type

- 8. Clematis Group 3
- Flower on old AND new wood
- Old = big flowers
- New = smaller flowers
- Begin renewal pruning in the 3<sup>rd</sup> year
- Remove 1/4 to 1/3 of old stems back to 12"







#### Pruning According to Plant Type

- 9. Wisteria
- Proper support
- Pods, seed, and spurs



#### Why Prune Perennials?

- Plants will tell you when (3 D's)
- Deadheading most common task
- Encourage new growth
- Reduce height; make more dense
- Keep in place
- Pest prevention

#### Wait Until Spring to Prune

- Seed, form, bark, foliage color, etc.
- Butterfly eggs & bird feed
- Indicate where late emergers are in the garden









#### JJJJ Fall Pruning – When & How?

- Wait until dormant
- Prune to 2-3" for most
- Prune to 6" to catch snow for insulation
- Remove stubs in spring













#### ]]]]] Espalier

- · Supple branches
- First season at 45° angle, then arms to 90° in fall
- Avoid spring pruning after establishment
- Summer pruning for dwarfing & spur formation



#### III Pleaching

- Alternative to formal hedges
- Supple branches
   needed
- Branches woven together in horizontal plane

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#### IIII Pleaching

- Wire support needed to
   establish scaffold
- Keep canopy thinned
- Summer pruning for control
- Suckering







#### Pollarding

- Dense shade in summer
- Full sun in winter
- Can be healthy and long-lived



#### \_\_\_\_\_ Topiary

- Pruning into formal or geometric shapes
- True topiary on it's own
  roots
- Fake topiary use of wire structure



#### **IIII** Topiary – Plant selection

- Best are *Buxus* and *Taxus*
- Small foliage; slow growth
- Usually one prune a year
- Privet not a good choice

#### Topiary – Training

- Promote bushy growth
   early
- Small = single plants
- Large = multiple plants
- Avoid fine detail keep
- it bold & simple





#### IIII Topiary – Care

- Fertilize in late winter
- Control competition food, light, etc.
- Remove snow loads

• Slow growers, prune once in summer



• Fast growers, prune multiple times

#### JJJJ Topiary – Care

- Shears o.k. with large specimens
- Use hand pruners on largeleaved plants
- Use templates for established geometric shapes
- Always cut lightly







# Bonsai Detailed pruning and pinching Use of wire to shape and constrict

#### ]\_]]] Bonsai

- Small, shallow root systems
- Re-pot every 2 4 years with new soil
- Avoid extreme temps
- Must manage water

