

A close-up photograph of a hand wearing a grey work glove, holding a pair of green-handled pruning shears. The shears are positioned to cut a thin, brown branch. The background is a clear, bright blue sky, with many other bare branches visible in the distance, creating a sense of depth and focus on the pruning action.

Tree Pruning Basics

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Tree Expert/ISA Arborist

Yard Whispers www.yardwhispers.ca



About Us

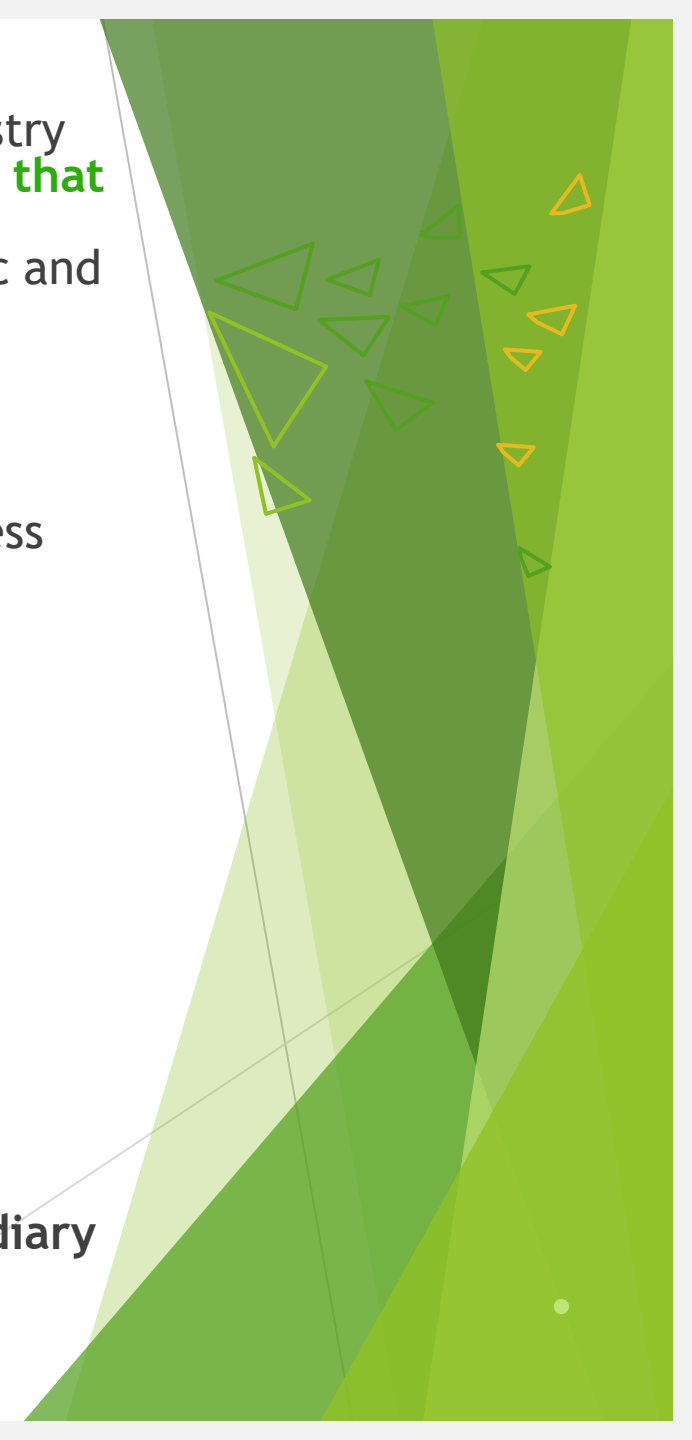
Trees are our
Passion

Yard Whispers is a leading tree, forestry and agroforestry **consulting company that provides services** for sustainable management of trees/forest on public and private lands

We offer services to:

- ❑ Residential and commercial business
- ❑ Golf course industry
- ❑ Municipal governments
- ❑ Parks and campgrounds
- ❑ Urban developers
- ❑ Legal and regulatory bodies
- ❑ Educational institutions
- ❑ NGO - provincial, national and international

Yard Whispers is wholly owned subsidiary of **ATTS Group Inc**



Our Services

Arborist Services

- **Forensic Tree Expert** for insurance and legal services
- Integrated Pest Management- Tree pests ID, assessment and recommendation
- **Tree Risk and Hazard Assessments (TRAQ Certified)**
- **Tree appraisal and value assessment**
- Tree preservation and protection plan

Urban/Town Tree services

- **Tree inventory for rural and urban areas**
- Urban forest management plan
- **Development of tree bylaws, policy and regulations**

Natural forest management

- Woodlot management plans- harvesting and reforestation
- **Tree planning and designs for acreage owners**
- Tree/forest design, planting and species selection for reforestation and reclamation projects

Agroforestry Services

- Shelterbelts and windbreaks design
- **Riparian and natural revegetation**
- **Biodiversity, wildlife and pollinators planting**

Key Messages

- ▶ “Duty of Care” - you must be aware
- ▶ Most of trees do not require pruning - You MUST have a reason to prune trees/shrubs
- ▶ Safety precautions are MUST as pruning is very danger work
- ▶ Perform proper pruning technique
- ▶ Remember 3D - Dead, Disease and Damage - you can prune 3D anytime
- ▶ Hire ISA Certified Arborist if you can not perform pruning or removal
- ▶ Pruning fruit trees requires extra knowledge and skills - I consider it as Art
- ▶ Tree Hazard/Risk Assessment - hire independent and qualified (TRAQ) Arborist
- ▶ Tools- keep them sharp and clean
- ▶ Pruning is hard work but also lot of fun
- ▶ Educate / learn about pruning

Duty of Care

- ▶ The law outlines a landowner's responsibility, known in law as **'the duty of care'**, to take reasonable care to avoid acts or omissions which he or she could reasonably foresee may result in harm or injury. When a tree owner fails to exercise his or her responsibility the result may be a **claim for negligence**.

Tree natural balance



Crown - Energy/Sugar production



Roots- Water and mineral supply



Safety First

- **Please wear Personal Protective Equipment (PPE)**
 - such safety helmets, gloves, clothes, eye goggles, ear protection, etc.
- Call **ISA Certified Arborist for any danger trees**
 - under powerlines, too big, too close to building, etc.
- If **you have NO experience to prune** any trees call Arborist
- **Do NOT come close** to trees after storm and powerline are on ground
- If use ladder use properly- **DO NOT USE THEM** AT ALL preferably
- **Weather** - make sure it is not rainy, slippery, cold, etc.
- **Make sure** that you are physically fit to do pruning
- **Trees with diseases, flaws, holes, weak**, etc. are more hazardous than healthy trees
- If you hire somebody, **ask for insurance and WCB**

Safety - Powerline and Trees

- ▶ **MUST HIRE PROFESSIONAL ARBORIST** with certification to work around powerline
- ▶ Tree is nothing but water and extremely good electricity conductor
- ▶ **Do NOT** come close to trees after storm and powerline are on ground



Myths about pruning

- Pruning is difficult - it is a hard work though
- All pruning must be done during the winter
- Removing and pruning trees is “*crime against nature*”
- Most trees need pruning - **No they don't**
- Anybody with pick up truck, chainsaw, and pruners are expert
- All cuts must be treated with paint

Basic Principles of pruning

- Reasons to Prune - You must have it
- Visualize the shape tree/shrub at maturity - how tree will look like after pruning
- Understand tree forms and branch structures
- Select the main scaffold branches or main stems that you want to keep
- What to prune ??
- How much to prune??
- Perform proper pruning cuts techniques
- Remove weak crotches, crossed branches, suckers and water sprouts
- Remove dead, damaged and diseased wood (3D)
- Thin crown will get more air and sunlight at center of crown
- Cut back to branch collar as to leave the smallest wound possible- do not leave stubs
- Remember that too much of anything is not always best - you can always prune next year

Reasons to prune

- Safety reasons for people and property
- Maintain and improve overall health of trees
- To train new tree
- Rejuvenate deciduous shrubs
- Reduce fire hazards
- To encourage flowering, to promote and improve fruit production
- To increase real estate of your property



Reasons to prune trees



Safety - Protect People/Property



Safety- People trail storm



Safety -People/property



To Protect Infrastructure



Health - To control Disease



Health - To control Insects



Increase Fruit production



Aesthetics

Pruning of insects infested trees



Poplar borer



Bronze Birch borer



Oystershell scale



White pine weevil

Pruning disease infested trees



Black Knot pruning

Table 1: Plant Species Affected by Black Knot

Amur Cherry	Mayday Tree
Apricot	Mongolian Cherry
Black Cherry	Nanking Cherry
Chokecherry	Pin Cherry
Dropmore Cherry	Cultivated Plum
Flowering Almond	Wild Plum
Flowering Plum	Prunus Hybrids
Japanese Plum	Sand Cherry
Korean Cherry	Sour Cherry



Tree defects



Fungus



Cavities



Cracks



Roots severed



Root collar and frost



Shelterbelt fire hazard pruning

- ▶ Reduce potential for fire
- ▶ Reduce potential for various human or livestock injuries
- ▶ Most of internal branches are dead and can be removed





What is NOT proper pruning !!!! Totally Avoidable



Results of improper pruning



Avoidable !!!
“Haircut”- Powerline pruning



Visualize 360°



Branch Unions



Included bark



Bark Inclusion-weak

Cracks

- ▶ Breakage imminent - **Remove trees or branches immediately**
- ▶ Severe defect



When to prune trees?

- **Coniferous** can be pruned any time of year
- Hardwood trees- For majority of tree the best is time from **March to mid-May or during the winter- when leaves are off**
- 3D - Dead, disease and damaged - ANYTIME
- When safety issues arises, and tree become hazard
- After unusual weather - late snow and other storms
- **Exemptions**
 - Birch and Maple - prune ONLY during growing season - June and July - leaves must be fully developed
 - Regulatory requirement - **Elm tree - DO NOT prune from April 1 till October 1**
 - Flowering and fruiting time
 - **Late fall and early winter - do not prune**
 - To avoid spreading disease - e.g. black knot, fire blight, etc.

What to prune ?



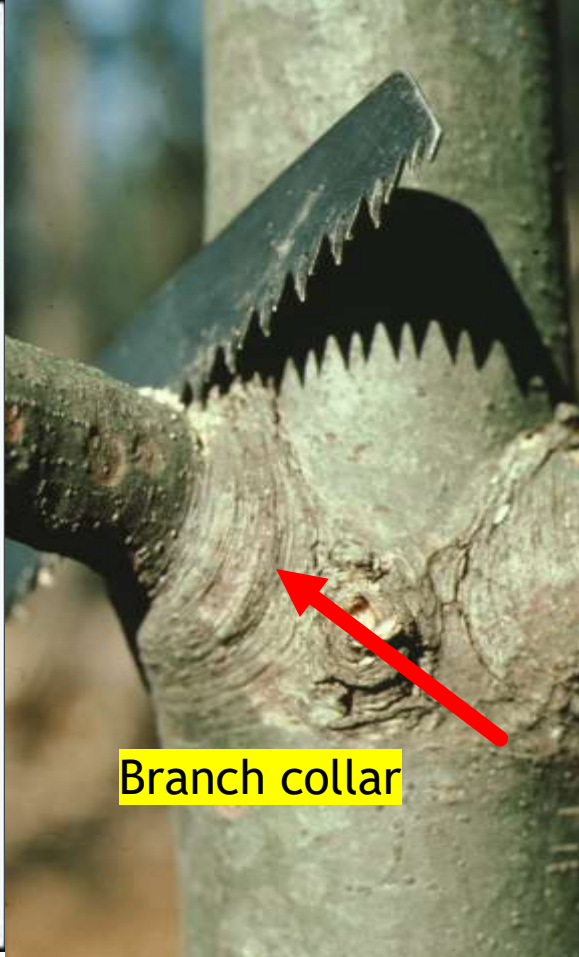
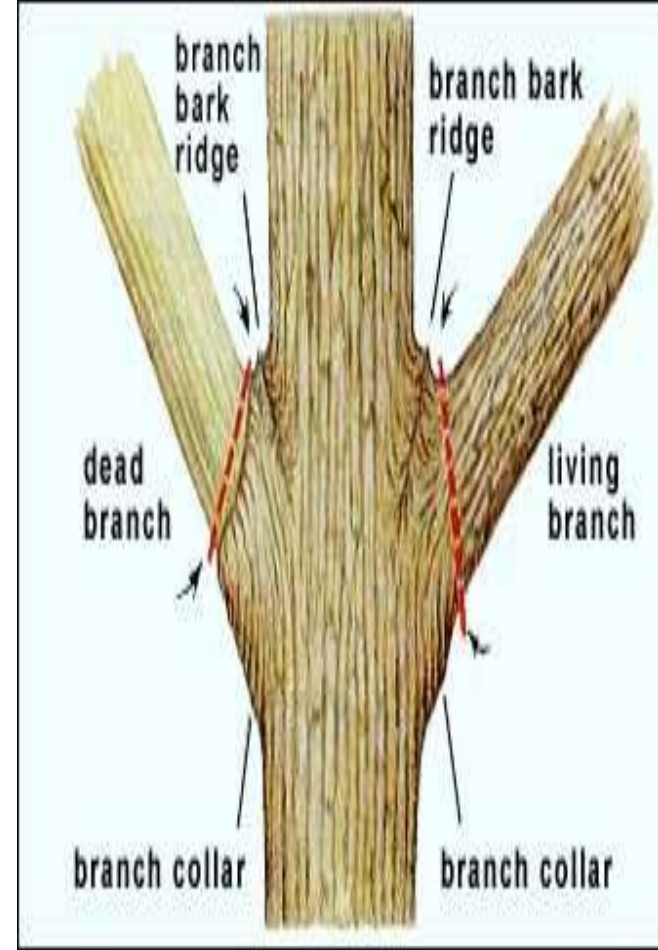
Co-dominant stem

Water sprout

Suckers

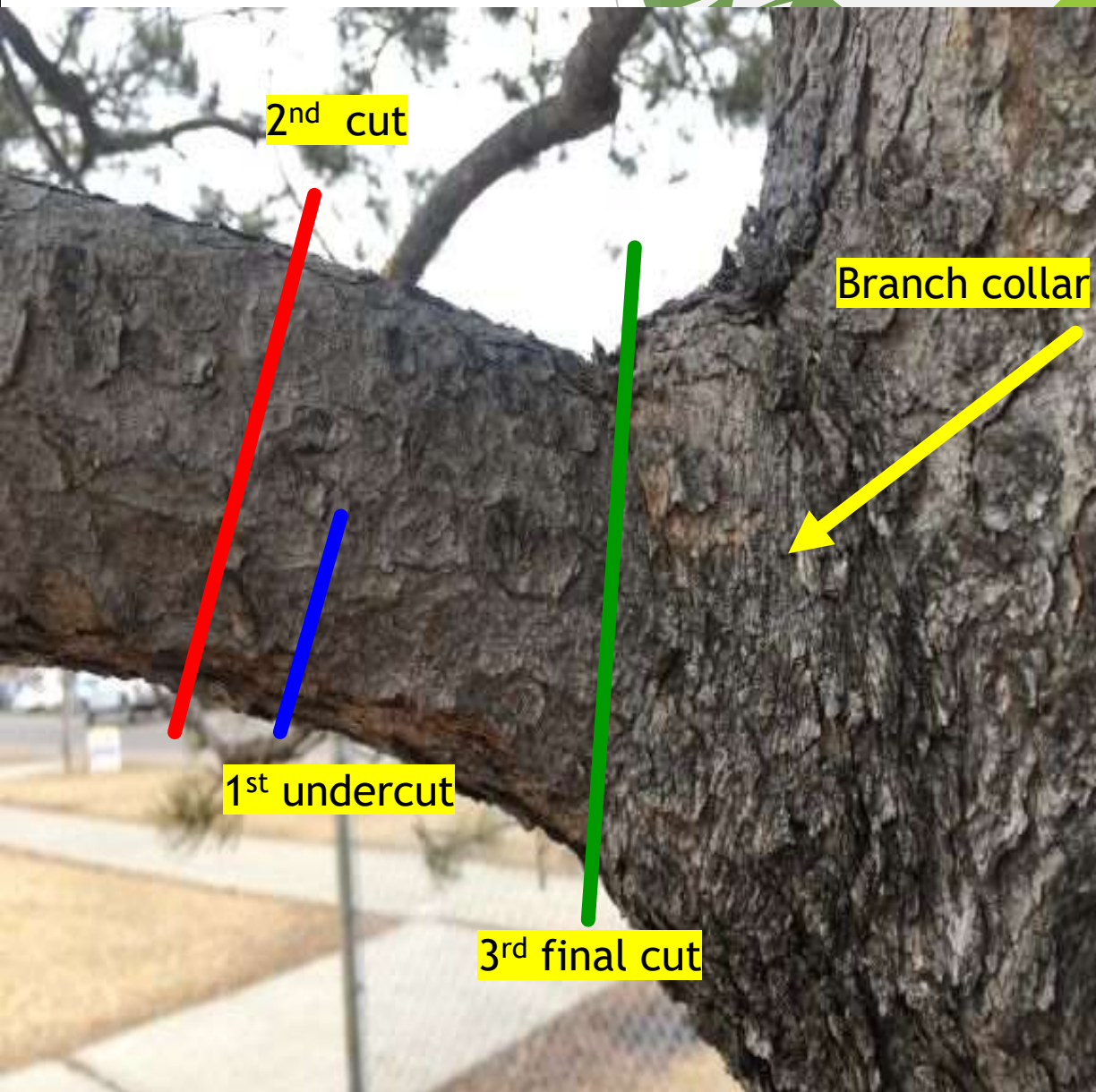
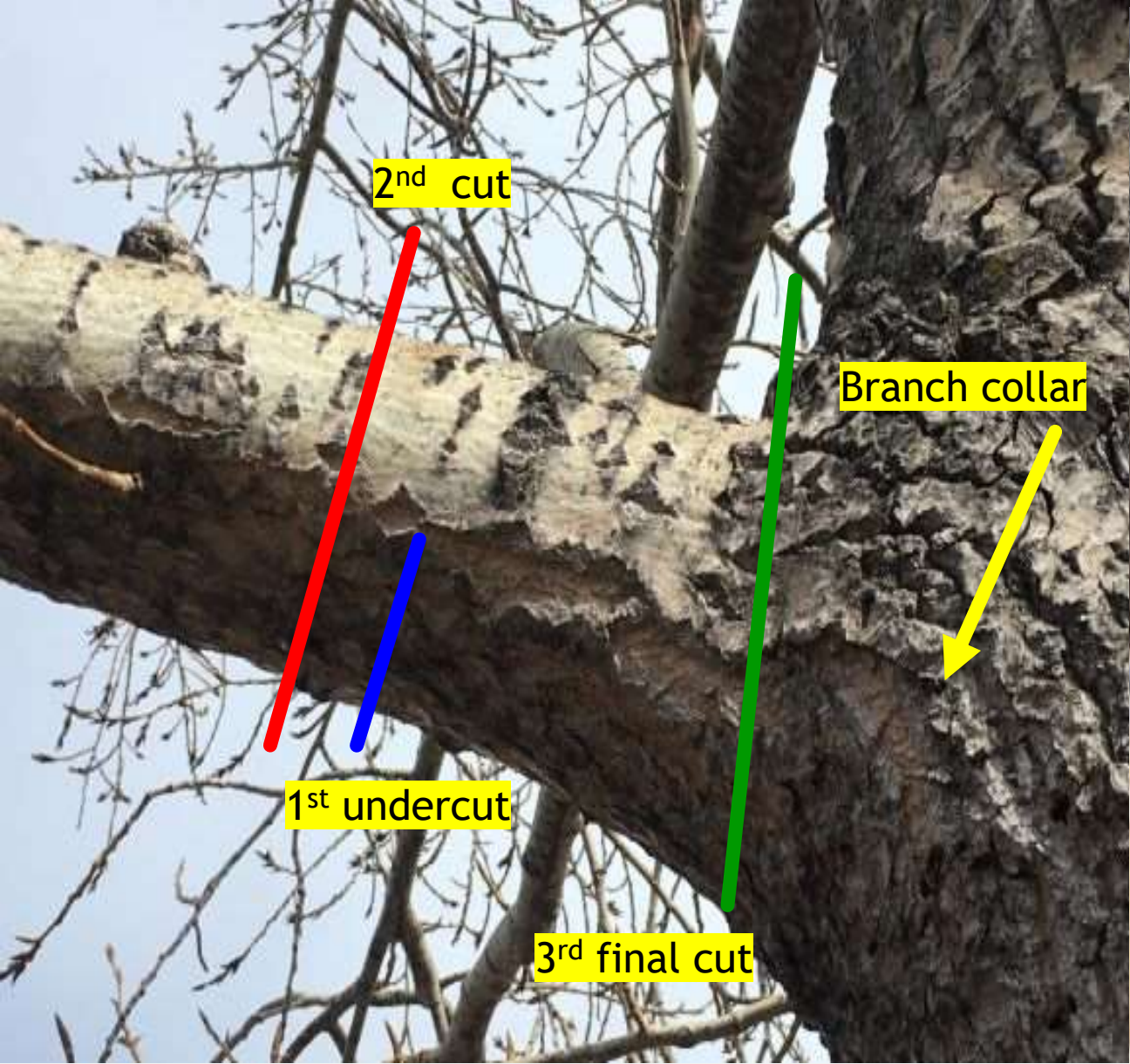


Broken and downward



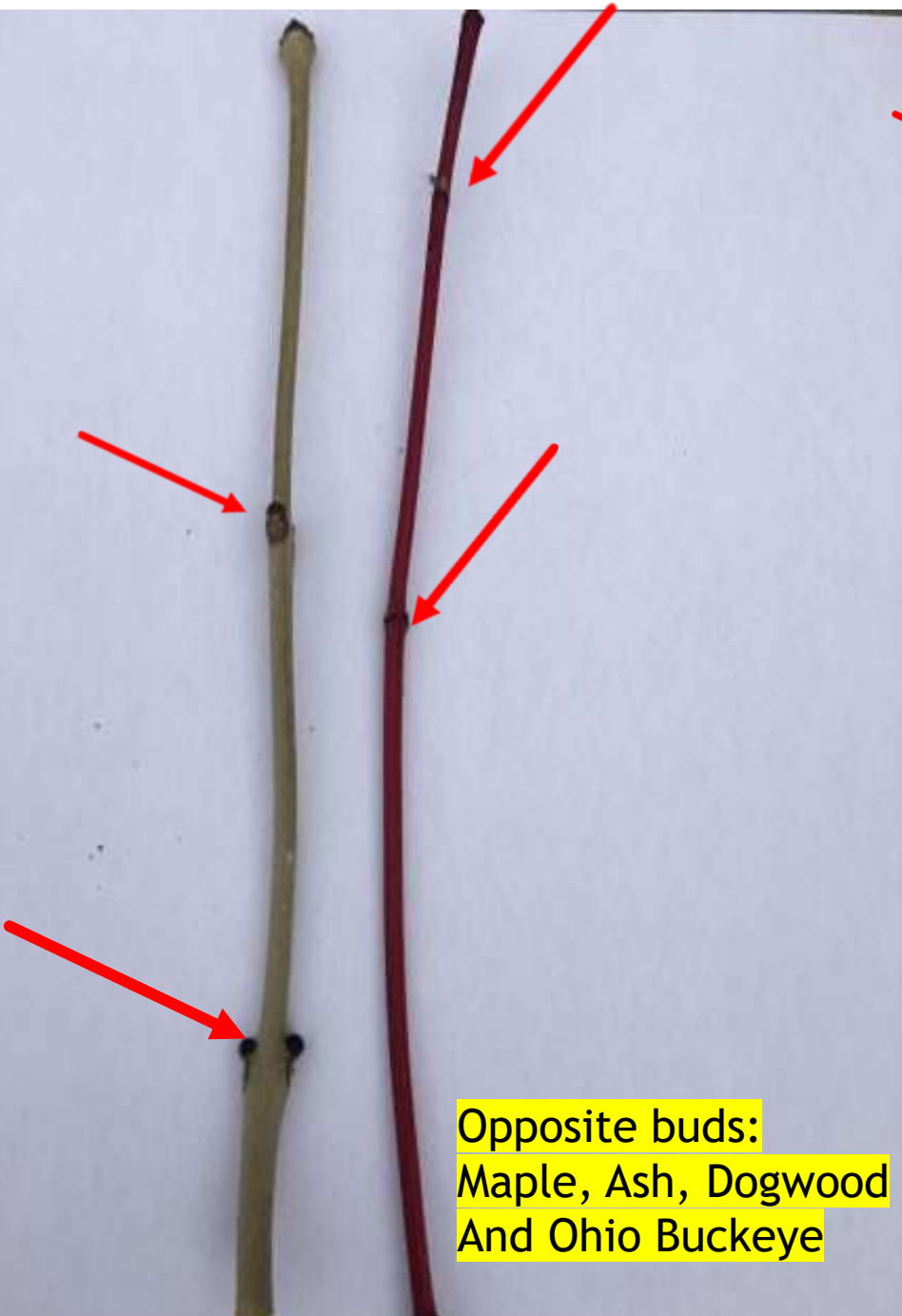
Understanding Branch Joints- Branch Collar and Bark Ridge

3 Way cut pruning-large branches





Proper cuts -proper wound healing
No need to paint or wound dressing



Opposite buds:
Maple, Ash, Dogwood
And Ohio Buckeye



Alternate buds:
all rest trees and shrubs

Branch pruning - pay attention on buds distribution on twigs

Pruning cuts on twigs

Too High Cuts



Too Low Cuts



Proper cuts



Opposite buds pruning cuts

Alternate buds pruning cuts



Pruning stubs - **Remove them**

Pruning coniferous

- Most of coniferous trees requires very little or no pruning
- Never make pruning cuts **behind the green foliage on a branch**
- Pine - mid June
- Spruce and Fir - Mid may till mid June
- Cedar and Juniper - more clipping then pruning -early spring till mid June
- Damaged top leader needs to be removed and one side branch need to re-established as leader



Dead sticks



Dead sticks



Dead sticks

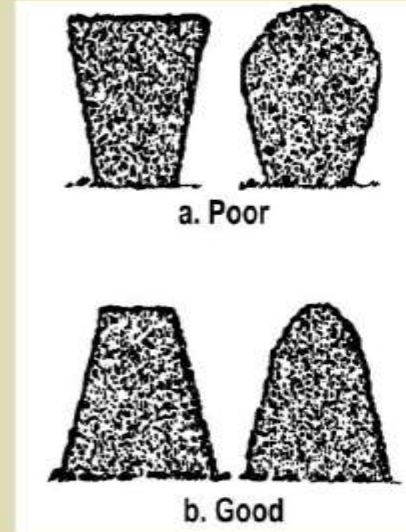
Pine and Spruce Pruning





Examples

Perfect



Hedge Trimming - base wide, top narrow



Topiary/Shearing

Welcome to the U of S Fruit Program Home Page



Fruit Trees for Peace Region



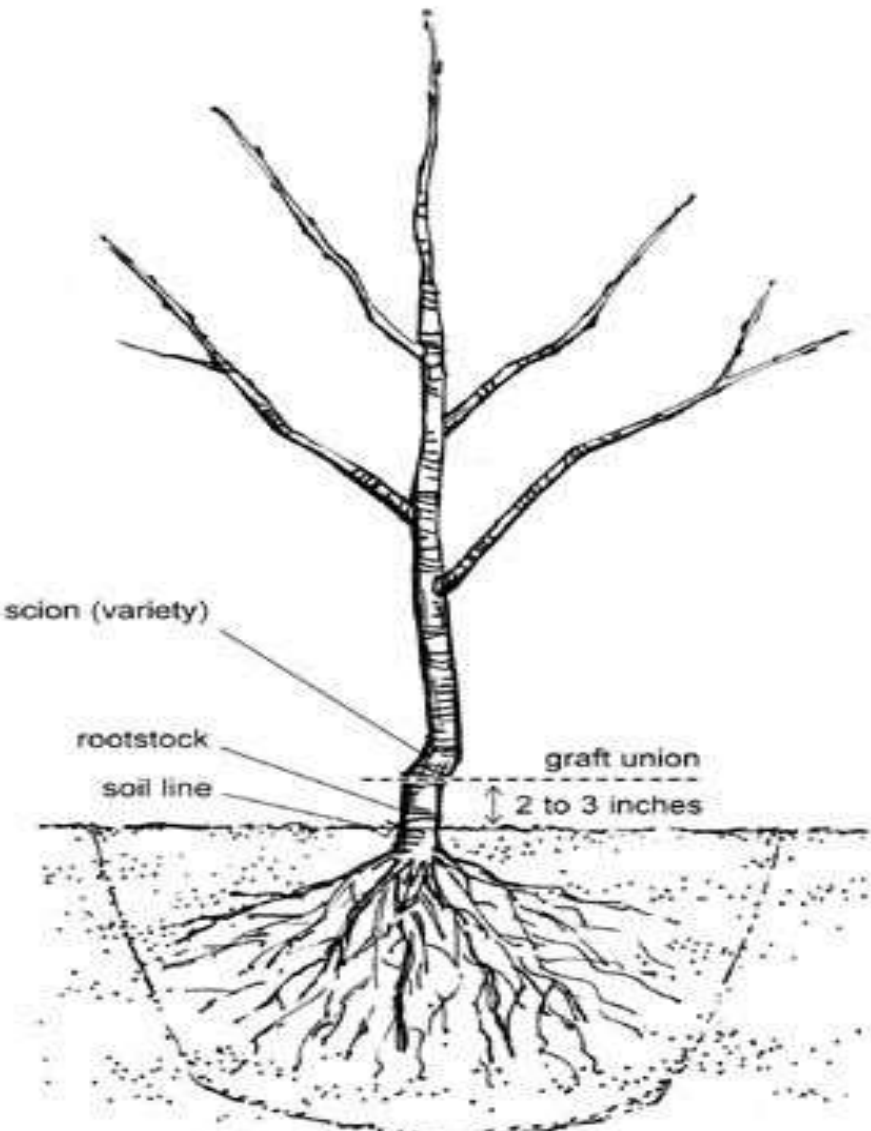
Tree species	Latin name	Hardiness Zone	Polination	Polinator
Autumn Delight	<i>Malus 'Autumn Delight'</i>	2b	self-incompatible	Crabapples or other apples
Fall Red Apple	<i>Malus 'Fall Red'</i>	2b	self-incompatible	Crabapples or other apples
Misty Rose	<i>Malus 'Misty Rose'</i>	2b	self-incompatible	Crabapples or other apples
Prairie Sensation	<i>Malus 'Prairie Sensation'</i>	2b	self-incompatible	Crabapples or other apples
Norland	<i>Malus 'Norland'</i>	2b	self-incompatible	Crabapples or other apples
Gemini	<i>Malus 'Gemini'</i>	2b	self-incompatible	Crabapples or other apples
Battleford	<i>Malus 'Battleford'</i>	2b	self-incompatible	Crabapples or other apples
September Ruby Apple	<i>Malus 'September Ruby'</i>	2b	self-incompatible	Crabapples or other apples
Crabapple (Dolgo)	<i>Malus 'Dolgo'</i>	2b	self-incompatible	Crabapples or other apples
Carmin Jewel Cherry	<i>Prunus 'Carmin Jewel'</i>	2b	self-compatible	does not need another cherry
Romeo	<i>Prunus 'Romeo'</i>	2b	self-compatible	does not need another cherry
Crimson Passion	<i>Prunus 'Crimson Passion'</i>	2b	self-compatible	does not need another cherry
Juliet	<i>Prunus 'Juliet'</i>	2b	self-compatible	does not need another cherry
Cupid	<i>Prunus 'Cupid'</i>	2b	self-compatible	does not need another cherry
Evans Cehery	<i>Prunus 'Evans'</i>	2b	self-compatible	does not need another cherry
Ure Pear	<i>Pyrus 'Ure'</i>	2b	self-incompatible	Other pear
Pembina plum	<i>Prunus x pembina</i>	2b	self-incompatible	Other plum

Pruning fruit trees

- ▶ You have to have a reason to prune fruit trees - Why?
 - ▶ Do you want to reduce the size of trees? Is your tree too big and tall?
 - ▶ Do you have a tree to produce poor crop? Large abundance of small crop
 - ▶ Is your tree diseased?
 - ▶ Do you have access to center of trees for crop or spraying ?
 - ▶ Do you want more sunlight for your crop?
 - ▶ To improve branch strength ? How many lbs of apple one branch can hold?
 - ▶ To improve air circulation?



Fruit tree structure



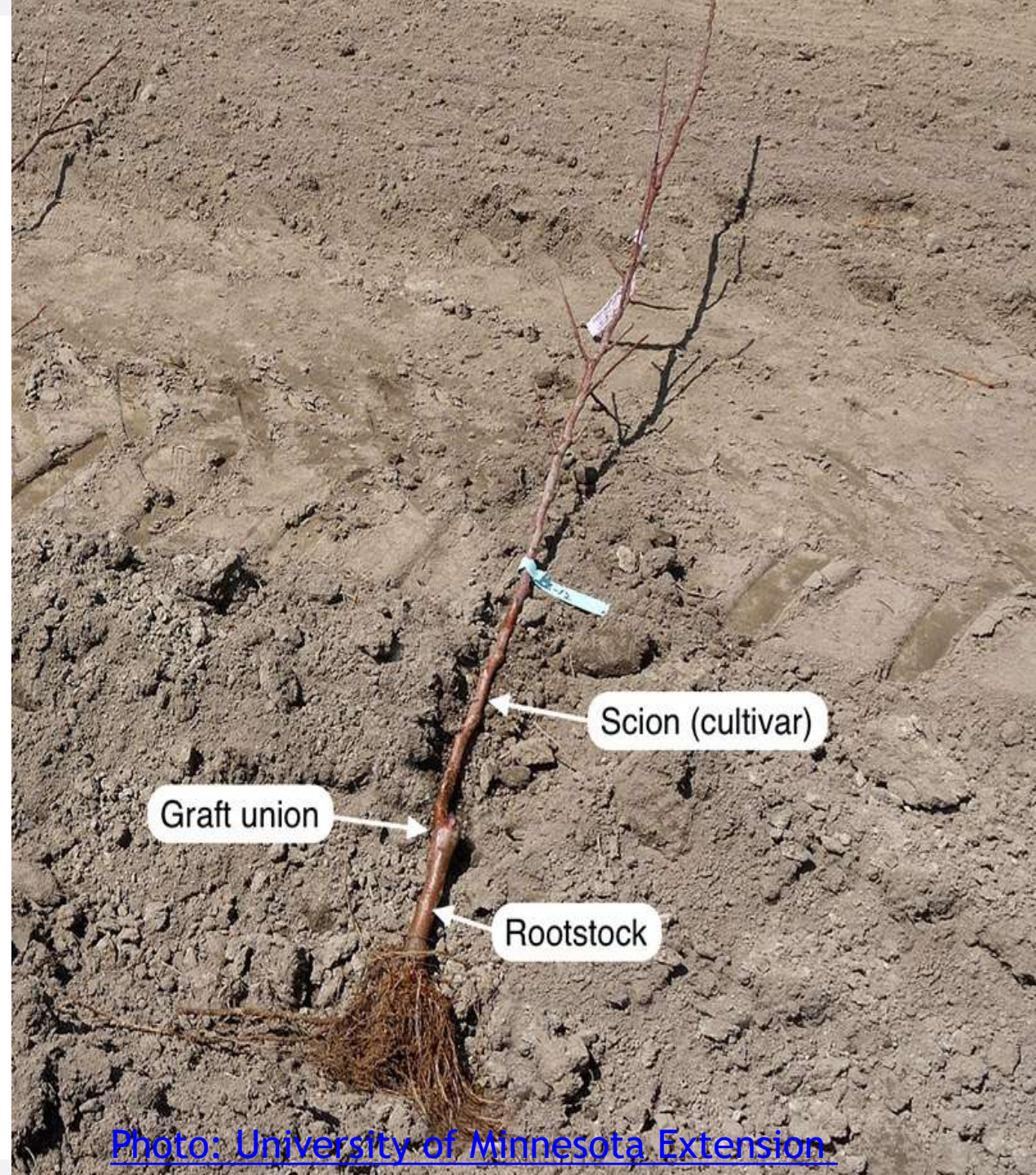
Flower/Fruit bud



Leaf bud

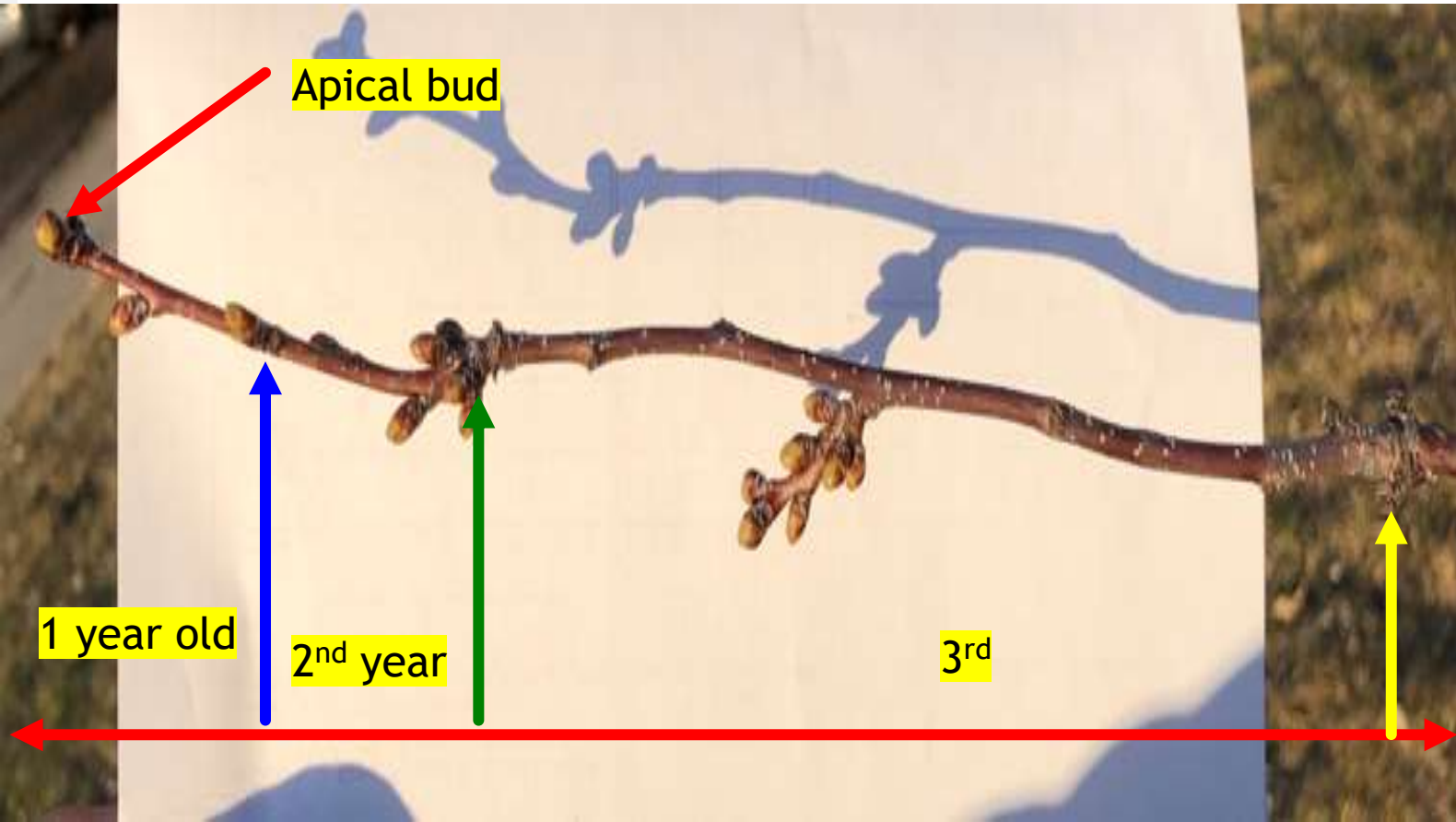
Root stock for apples

- ▶ Pay particular attention to the rootstock you choose for your apple trees.
- ▶ Different rootstocks have varying degrees of influence on the tree's longevity, productivity, tolerance of adverse soil conditions, susceptibility to certain diseases, suckering, root anchoring and breakage potential.
- ▶ **Rootstock limit apple tree size**
- ▶ **Smaller tree earlier fruit**
- ▶ Nurseries will label the trees **dwarfing, semi-dwarfing, and standard**
 - ▶ **Standard rootstock may let tree grow up to 20 feet or more**
 - ▶ **Semi-dwarfing /dwarfing 8-15 feet tall**



[Photo: University of Minnesota Extension](#)

Twig anatomy



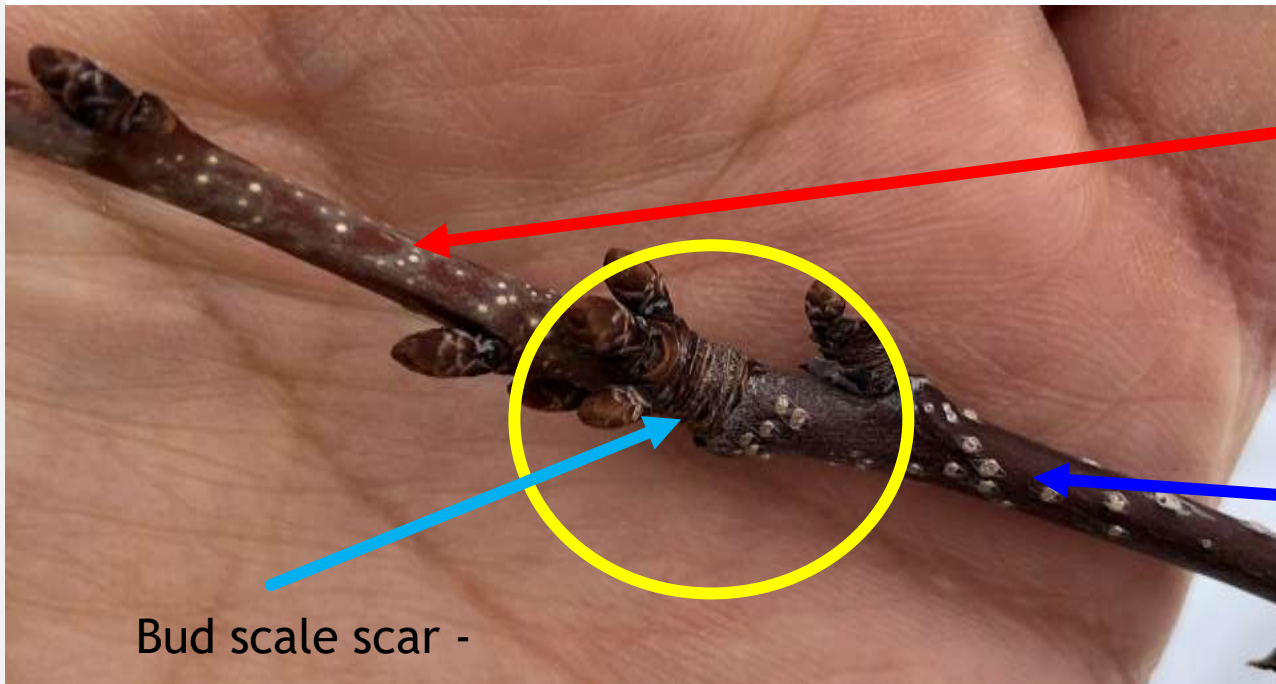
Fruit Set

- ▶ Apples/Pear - Fruit spurs grow on 2, 3 and up to 10 years old wood
- ▶ Cherry/Plums - Fruit spurs grow on 1, 2 or 3rd year old wood



This year growth

2,3 or 4 year growth



Bud scale scar -

Apple Structure

- ▶ Few large branches
- ▶ Open form structure
- ▶ Removal of large laterals
- ▶ Removal of lower branches
- ▶ Reduction of height



Pruning fruit trees

- Remove any branches that are growing inside - **leave center of tree open**
- Remove any 3D (Dead, diseased, and damage) branches
- Remove all suckers and branches that are downward branch
- Rubbing and crisscrossing branches remove
- Remove competing leaders
- Remove narrow crotches



Shape



Suckers



Topping

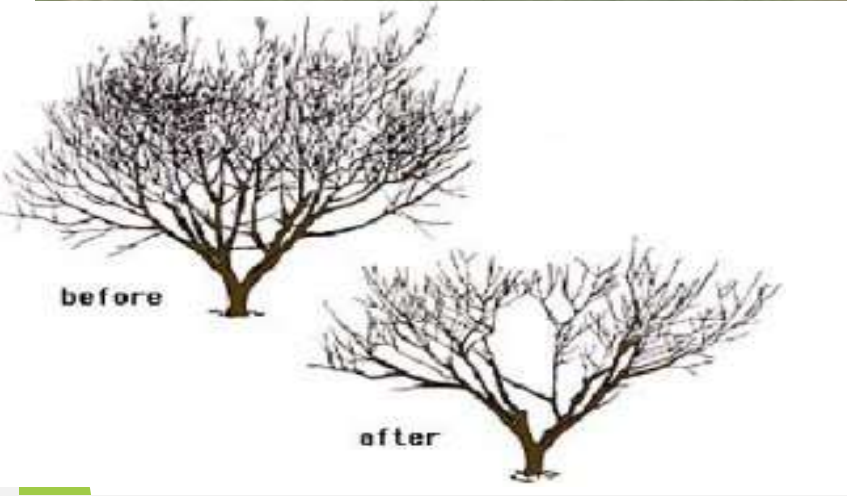


Downward Branch



Rubbing

Before and after pruning of apple



Shrub blooming prior June 20

- Prune immediately after bloom has finished
- Aim is to promote more flower buds for next year
- Prune weak stems and heading back selected stems to promote strong lateral shoot
- Examples are: Dogwood, Lilacs, Spirea varieties and Mock orange (philadelphus) flowering plums, hawthorn, forsythia, crabapple, Viburnum, mountain ash etc.
- Unpruned shrubs can become more twiggy



Shrubs blooming after June 20

- Shrubs bloom after June 20 should be pruned in dormant season or just before growth in spring
- Examples: Potentilla retain their shape naturally and little pruning is required
- Spiraeas requires severe cutting back of all stems
- Lilacs and Honeysuckles requires regular pruning
- Evergreens shrubs most of times requires NO pruning



Lilac and cotoneaster pruning



2019



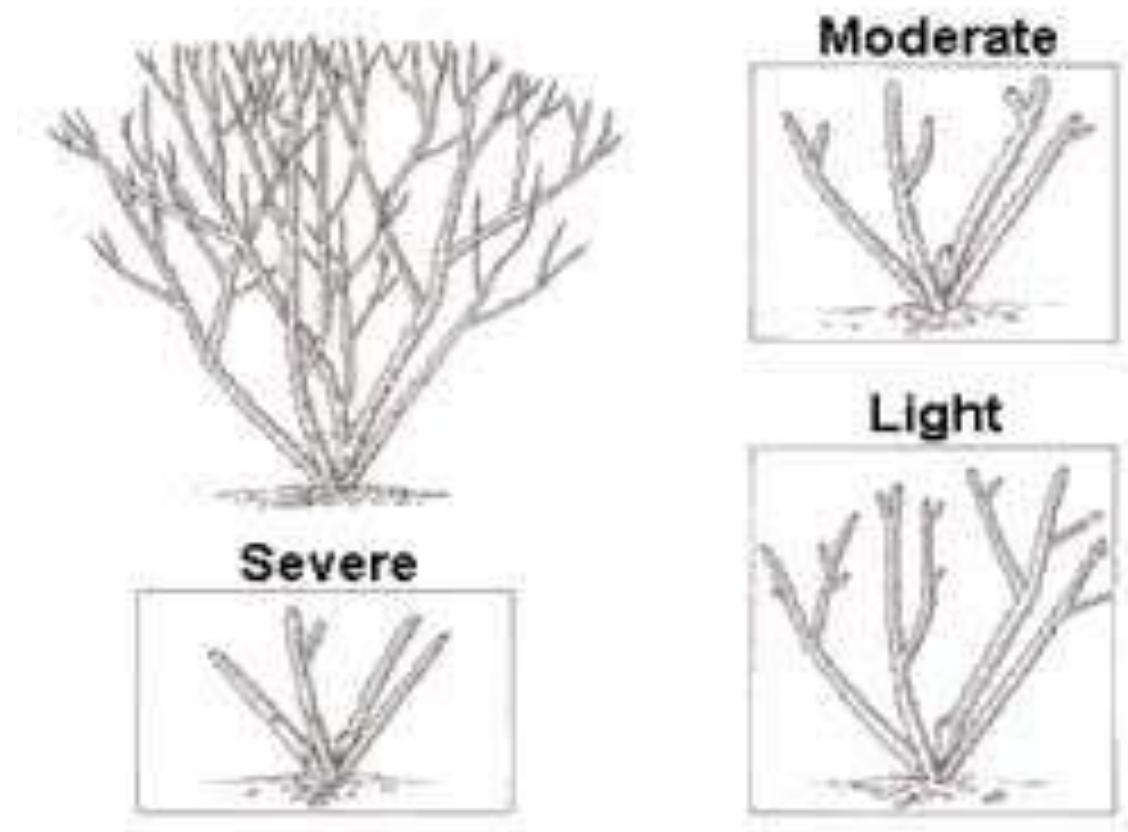
Spring 2020



Summer 2020

Pruning Roses

- In wild roses produce strong new shoots from near the base of plant each season
- Prune during the winter - march/April just before season starts
- Deadheading during summer - **prune to above 2 to five leaflets buds**
- Cut back into healthy wood -
- Cut outward pointing bud to encourage an open center
- Cut any diseased or damaged branch
- Remove all thin, weak canes that are smaller than a pencil in diameter



Pruning Circling roots



Cut roots



Wash roots

Root girdling



Pruning tools



Clean and Sanitized



Must be Sharp



You get what you pay for, so cheaper tools....usually are !!!!



Buy only tools that you really need



Clean up and sharpen tools after you finish work

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Thank You

Blog:

<https://yardwhispers.ca/blog/>

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