



PREVENTING HAND INJURIES WHILE PRUNING FRUIT TREES

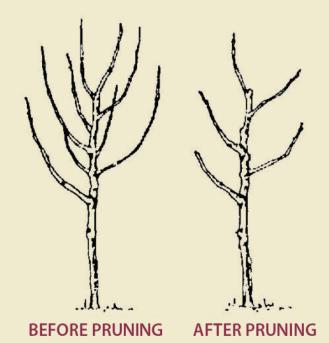
Beatriz Rodriguez NC AgrAbility Project Manager Ned Stoller ATP Michigan AgrAbility

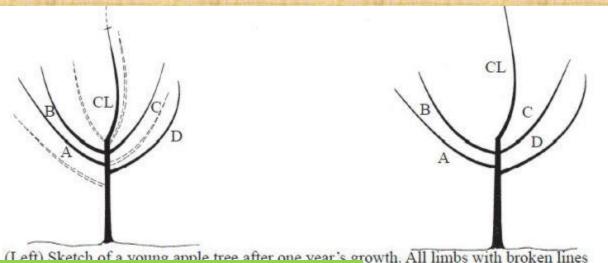
2020 AgrAbility National Training Workshop March 23-26, 2020 - Madison, Wisconsin

Trimming Pruning:

- Leading
- ThinningTraining

CENTRAL LEADER TREE TRAINING

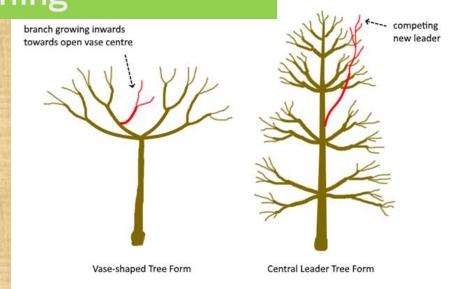




About 35% of the Variable

Cost in orchard production

goes to pruning



tain Tree Form



Pruning and Training

Involve:

Hand forearm arm

wrist elbow shoulder

Require:

repetitive motions awkward postures excessive force long hours

Health Concerns

Cumulative injuries and musculoskeletal disorders (MSDs) have become an increasingly recognized issue of concern in agricultural production.

The DHHS and the NIOSH have identified the risk of overexertion and repetitive motion as a goal to reduce the rate of lost time injury and illnesses.

Understanding the Physical Demands

Provide a better view on how to reduce or minimize exposure of workers to the risk of injuries and disorders of the upper limb.



Ergonomics

Human abilities and limitations







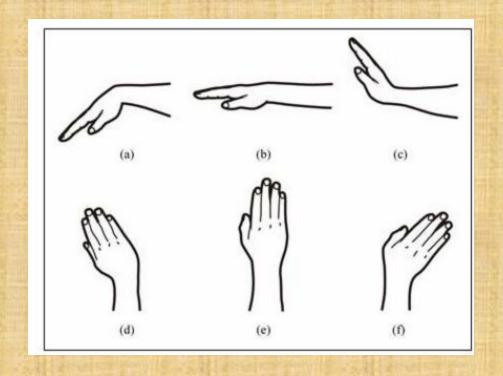


Musculoskeletal disorders (MSDs) are injuries or pain in the human musculoskeletal system, including the joints, ligaments, muscles, nerves, tendons, and structures that support limbs, neck and back. MSDs are increasingly recognized as a significant hazard of agricultural occupation.

In agricultural jobs with significant physical labor, MSDs are typically the most frequently reported injury and are among the costliest health care problems facing society today.



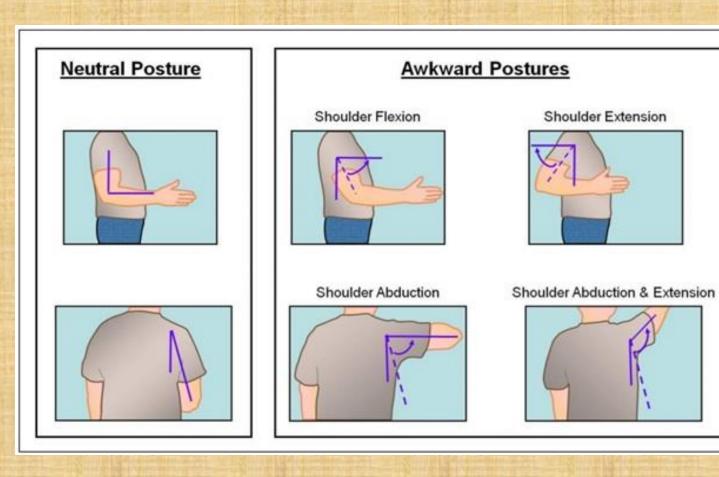
Wrist Position



The wrist position affects your ability to grip

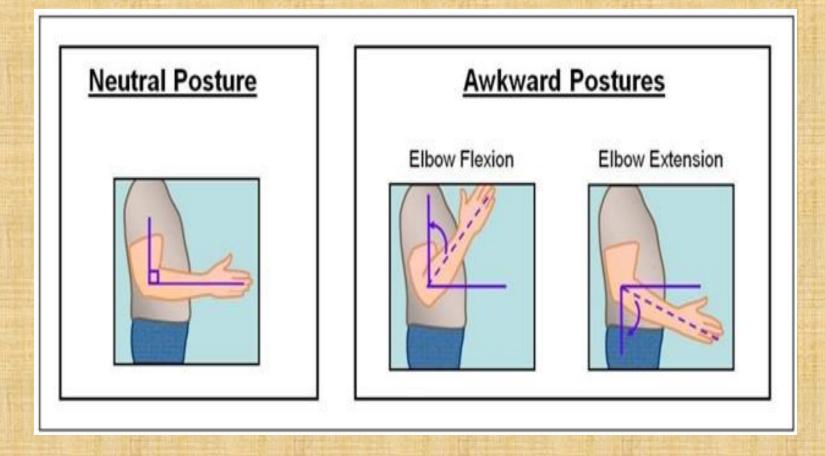


Shoulder Position





Elbow Position





Keep Everything at Easy Reach

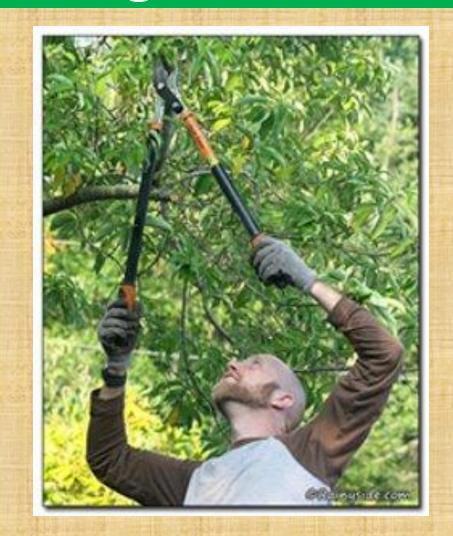




Work at Proper Heights

Do most work at elbow height

Keep lifts between hand level and shoulder level. Avoid lifts from the floor or over shoulder level

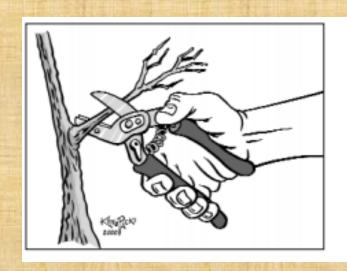




Minimize Pressure Points



Proper Tool Selection







Reduce Excessive Motions

- > Repetitive motions
- Awkward body positioning
- > Excessive force
- Vibration

- Allow enough time in between for adequate recovery by having the worker alternate with a low-repetition task.
- For example, other tasks that don't require repetitive hand motions, like carrying the finished boxes to the loading area.
- Use your larger muscles
- One of the simplest ways to reduce manual repetitions is to use power tools whenever possible.



Minimize Fatigue and Static Load

 Allow enough time in between for adequate recovery

 Sitting down while working reduces the strain on the lower back and legs. Standing causes legs to swell (more than walking does) Set time to schedule rest breaks





Move, Exercise and Stretch

- To be healthy the human body needs to be exercised and stretched
- For a physically demanding job, you may find it helpful to stretch and warm up before any strenuous activity
- The best jobs are ones that allow workers to do different types of work, changing from sitting to standing to walking and back again



Maintain a Comfortable Environment

Adjust Working Stations

Adapting tasks, workstations, tools, and equipment to fit the worker can help reduce physical stress on a worker's body and eliminate many potentially serious, disabling work related musculoskeletal disorders

























Best Seller Premium Rat SUPERB FOR HEAVY WORK - RATCI

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Stock Number	Item Description
11G12.01	Heavy Duty Anvil Lopper
11G12.02	Heavy Duty Bypass Lopper
11G12.10	Both Heavy Duty Loppers
11G12.11	Replacement Blades, HD Anvil Lopper
11G12.12	Replacement Blades, HD Bypass Lopper







Tool Balancer



"TRIM MORE HURT LESS"

MAKES PRUNING TOOLS WEIGHTLESS AND MORE MANEUVERABLE

With this new attachment the operator can trim with a hydraulic gun or saw all day and not have the discomfort or injury to wrists, arm or back caused by the weight of these tool's.

This also gives the operator more reach by keeping his hands back further on the tool, and allows a person to use longer tools without the disadvantage of the weight, this extra reach saves time with less maneuvering of the machine. The advantage of pruning faster with less discomfort or injury makes this attachment a must on nearly every pruning machine.

















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Questions?