



Trail Tools and Mechanized Trail Equipment

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Session Objectives:

- To Identify and Understand Uses for Common Hand, Gas Powered and Mechanized Trail Tools
- Introduction to Specialized Tools Use for Trail Work or Tools Adapted from Other Trades for Trail Work

Trail Work
Requires:

Moving &
Building With
Large
Materials
& Objects

Often In
Remote
Locations



Working Trails
Becomes a Matter



Trail Hand Tools

Most Trail Construction and Maintenance Hand Tools are Typical Fire and Construction Tools

Trail Hand Tools:

- Clearing and Brush Removal
- Grubbing and Excavation
- Compaction and Finishing
- Trail Structure Construction

Clearing and Brush Removal



- Axe
- Loppers
- Crosscut Saw
- Machete
- Sandvik
- Fire Rake

- Pulaski
- Pick
Mattock
- Axe
Mattock
- Pick
- McLeod
- Hazel
Hoe
- Shovels
- Digging
Bar



- ### Compaction and Finishing
- McLeod
 - Tamper
 - Rake
 - Shovel
 - Wheel
Barrow



Project Tools

- Carpentry Tools



Trail Gas Power Tools

- Chain Saws
- Brush Cutters
- Drills
- Rock Drills
- Toters
- Vibraplates

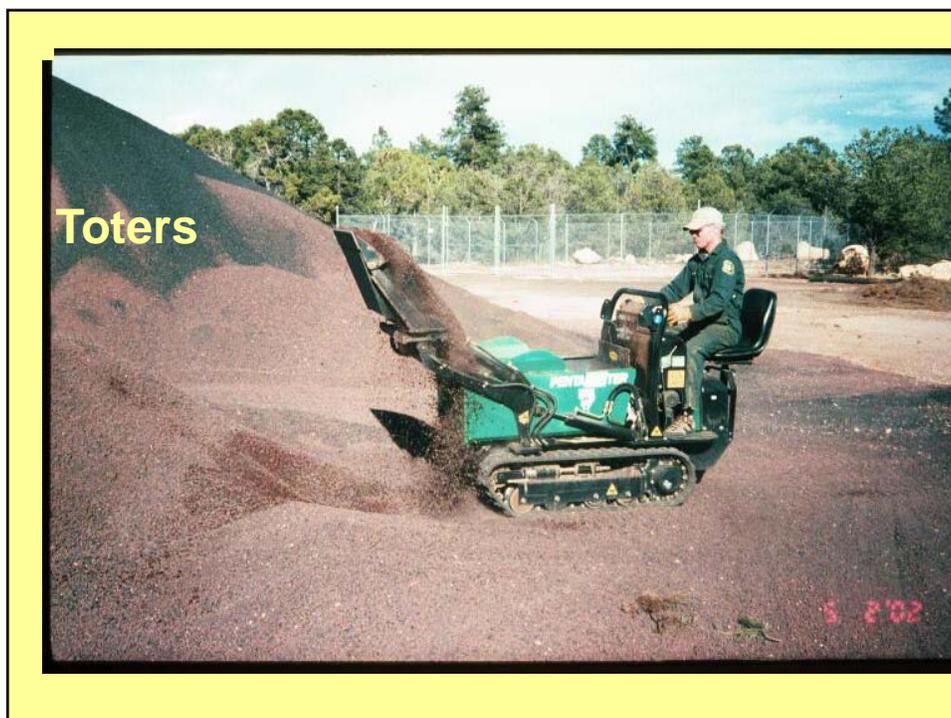




Drills



**Rock
Drills**





Vibraplates



Mechanized Trail Equipment

- Dozers
- Excavators
- Material Haulers



Trail Dozers

Sweco Trail Dozer 480



Trail Dozers in are Most Efficient in the
Right Conditions



Mini-Excavators

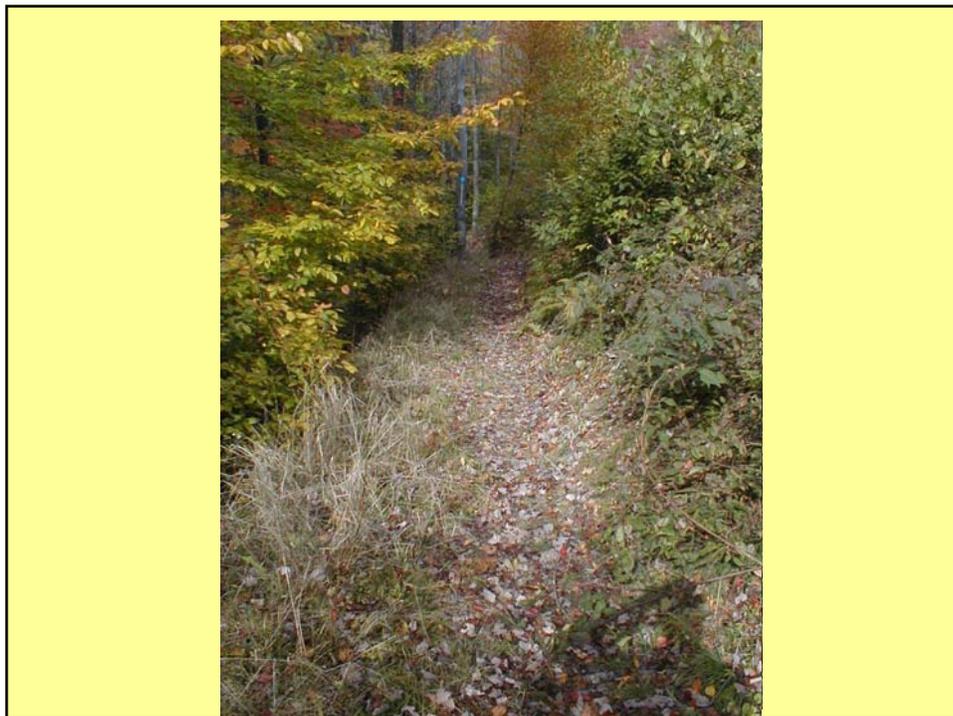
Mini-Excavator with Rock Hammer Attachment



Morrison Type Mini-Excavator



Mini Excavator Trail Construction



Dozer and Mini-Excavator Often Used Together



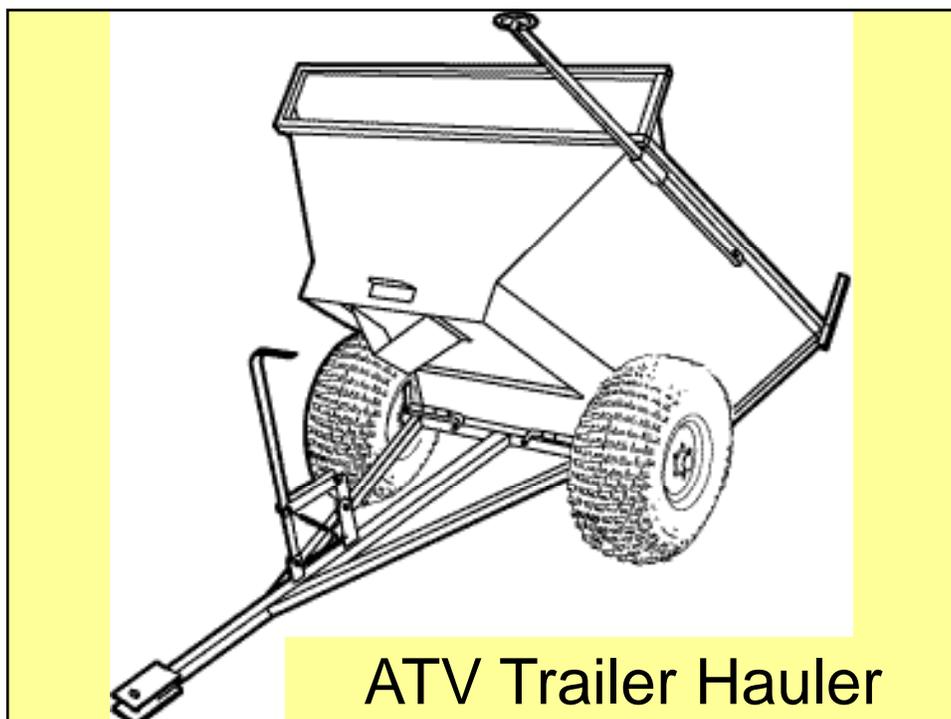
Trail Haulers

Alltrack Trail Dumper



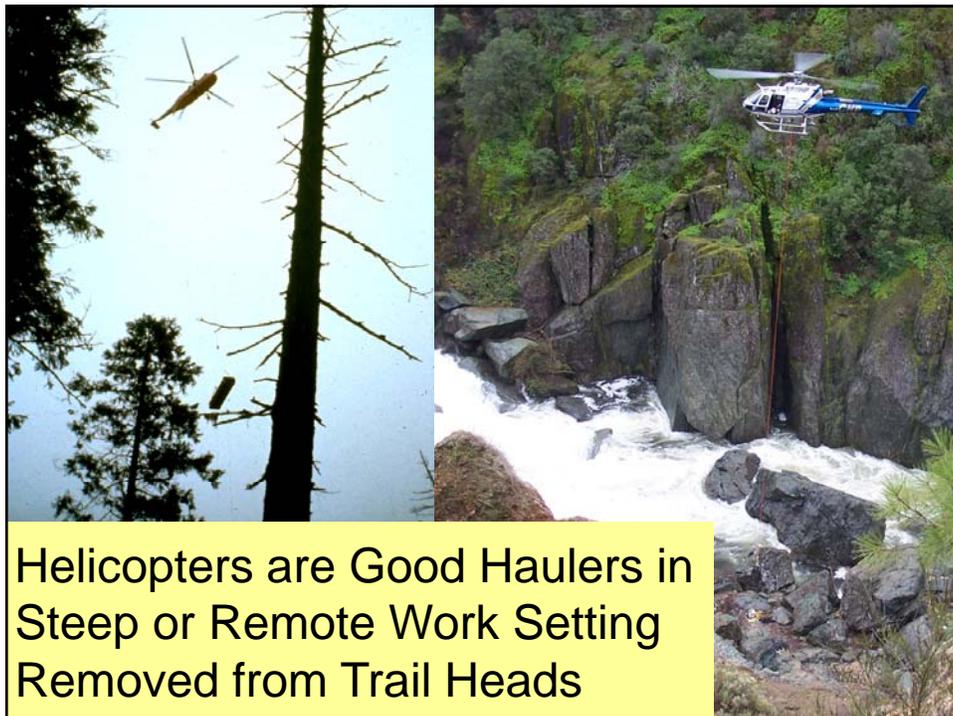
Home Made Hauler

Belly Dump Pulled by Dozer





Self Propelled Hauler
John Deere Gator



Helicopters are Good Haulers in Steep or Remote Work Setting Removed from Trail Heads

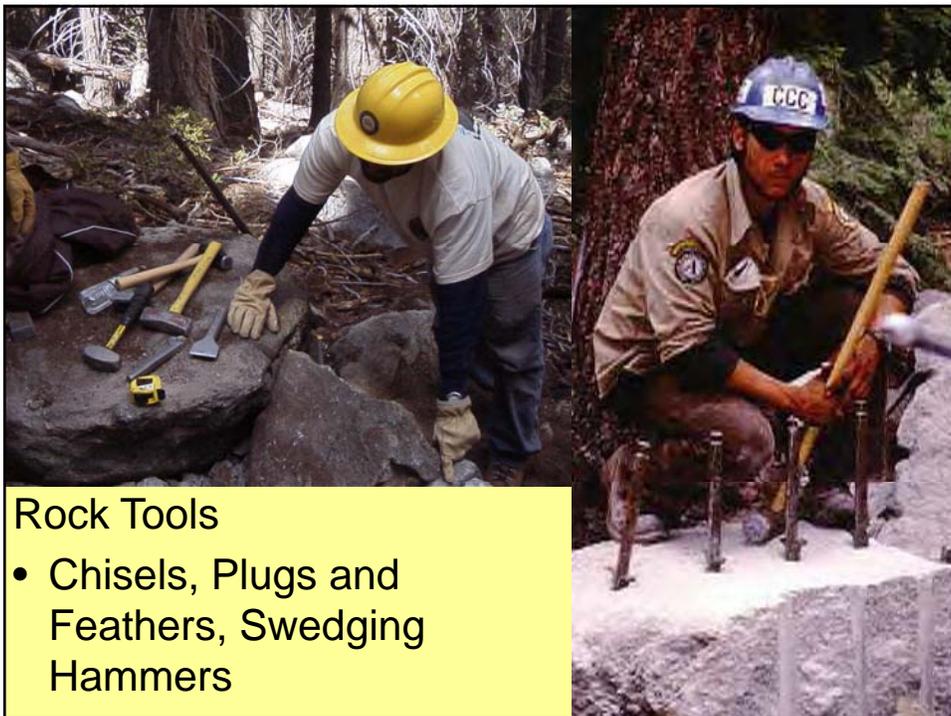
Specialized Trail Tools

- Rigging
- Rock Work
- Hauling
- Spike Camps



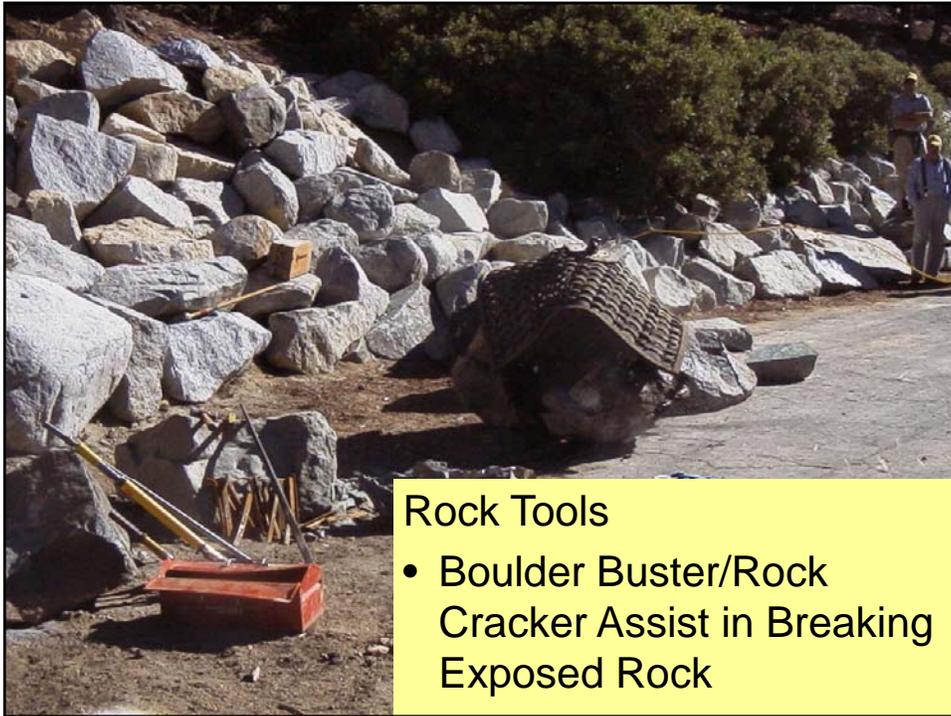
Rigging

- Climbing Ladders Assist in Setting Rigging for High Lead Applications



Rock Tools

- Chisels, Plugs and Feathers, Swedging Hammers



Human Powered Material Hauling

- Carts, Litters and
Wheel Barrows



Horse Packing

- Wilderness Essential
for Material, Supplies,
Tools and Logistical
Support



Spike Camps are Tools that Provide Support in Areas where it is Not Feasible to Hike In and Out Each Day



Session Summary

- Trail Tools Come in Many Forms, From Specialized Trail Project Tools to Adapted Tools from Other Trades or Wildland Fire Fighting
- Many Small Sized Mechanized Equipment has been Developed or Adapted for Trail Construction
- Many Trail Tools Mitigate Potential Worker Injury

Session Summary

- Locations Require Tools and Equipment Support for Logistics and Transport of Materials
- The Keen Trail Worker will Always be Looking to Adapt “Front Country” Tools for Use in Remote Trail Work Locations

Hand Tool Exercise

In your power point notes there is a picture of a specialized trail tool. Take a few minutes and write next to each tool:

- Tool Name
- Tool Purpose
- How is Tool Used
- Safety Considerations for Tool Use

