Large Equipment Mowing and Whole Plant removal

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Outline

• Mowing
  • Types of mowers
  • How to use/effectiveness
  • Caveats/Cautions

• Large Plant removal
  • Types of equipment
  • How to use/effectiveness
  • Caveats/Cautions
Qualified Operators

• Impacts
  • High disturbance potential
  • Compaction
  • Erosion
  • Off target impacts
Mowing with Large Equipment

• Types of mowers
  • Rotary (brush hog)
Mowing with Large Equipment

• Types of mowers
  • Rotary (brush hog)

Photo Courtesy of: https://dickeybub.net/dickey-bub-store-locations
Mowing with Large Equipment

- Types of mowers
  - Rotary (brush hog)

Photo Courtesy of: https://www.tractorbynet.com
Mowing with Large Equipment

• Types of mowers
  • Rotary (brush hog)
  • Flail mower

Photo Courtesy of https://www.woodmaxx.com
Mowing with Large Equipment

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- Side Slope Mowers
  - Rotary
  - Flail

Photo Courtesy of: https://www.tigermowers.com
Mowing with Large Equipment

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  - Rotary (brush hog)
  - Flail mower

- Side Slope Mowers
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  - Flail

Photo Courtesy of: https://www.mutilhog.com
Mowing with Large Equipment

• Types of mowers
  • Rotary (brush hog)
  • Flail mower

• Side Slope Mowers
  • Rotary
  • Flail

• Remote
  • Rotary

Photo Courtesy of: https://www.lawnsite.dom
Mowing with Large Equipment

- Types of mowers
  - Rotary (brush hog)
  - Flail mower
- Side Slope Mowers
  - Rotary
  - Flail
- Remote
  - Rotary
  - Flail

Photo Courtesy of: Jutta Burger
Effectiveness

- Most effective on
  - Annual species
  - Non-sprouting species
- Semi Effective on
  - Woody species
- Not effective (multiple cuts)
  - Sprouting species
  - Rhizomatous perennials
- Flat/low slope
- Non rocky
- Semi even terrain
  - Risk damaging equipment.
How To Use

• Timing
  • Bud Stage/flower stage
  • One pass vs. Multi pass
  • Multiple times/season for best suppression

• Moisture
  • Wet sites vs Dry Sites

• Preparation Other Treatments
  • Tarping
  • Grubbing
  • Herbicide
  • Competitive planting
Cautions/Caveats

• Advantages
  • Quick
  • Larger acreage

• Disadvantages
  • Non selective
    • Habitat disruption
    • Impact Desirable vegetation (do not mow sensitive sites/species)
  • Fire risk!!
    • Spark generation!
    • Need adequate moisture
      • Winter/spring
      • Early in morning
    • Take precaution (water truck, management plan)
Large Whole Plant Removal