

RC Mowers-A Caltrans Tool



Stephanie Ponce
Sr. Environmental Scientist (Veg Mgmt)
Stephanie.R.Ponce@dot.ca.gov

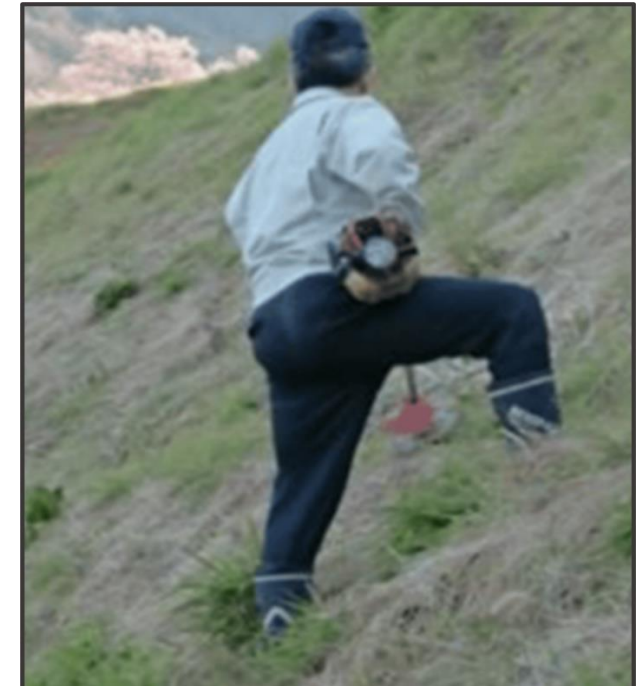




Live traffic



Rollovers



Steep terrain

Hazards



**Advanced Highway Maintenance
and Construction Technology
Research Center**

Department of Mechanical and Aerospace Engineering
University of California at Davis

**Evaluation of Remote Control Mowers
for Roadside Management**

Wilderich White &
Ty A. Lasky: Principal Investigator

Report Number: CA20-2730
AHMCT Research Report: UCD-ARR-19-09-30-05

Final Report of Contracts:
IA65A0560 Task 2730
IA65A0749 Task 2730

October 16, 2019

California Department of Transportation

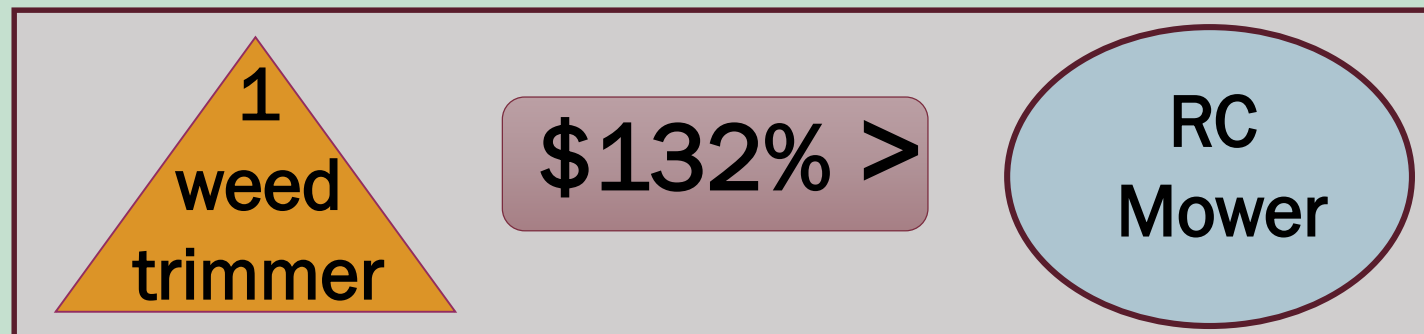
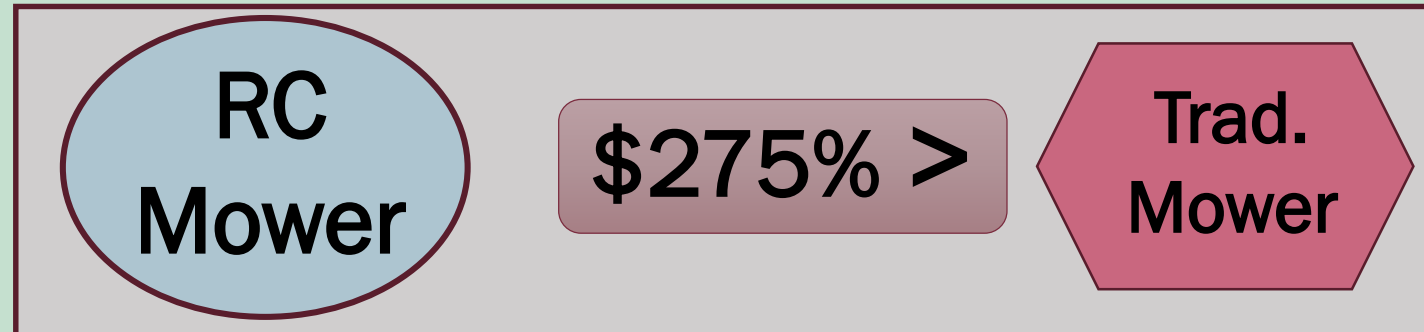
Division of Research, Innovation and System Information

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COST Analysis

Purpose of research:

- **Determine RC mower ability to improve worker safety**
- **Cost Analysis:**



Pros:

- Increase worker safety
- Easy transport and use
- Operating range: ± 500 ft
- Camera included
- Good maneuverability
- Equal rate as 3-4 string trimmers
- Steep slopes capability (50%)





Things to be aware of...



- High cost (~\$65,000+)
- High maintenance
- Vulnerable to debris
- NOT for woody veg use
- Sig. erosion when $> 50\%$ slope
- Fire-start threat = trad. mowers

Invasive Plant Control



Phragmites a.

**THANK
YOU**

