

**T & E First-Round Winner**  
Innovations Challenge

**April 2016**

Prepared by Transportation Planning  
Missouri Department of Transportation

## Tree Saw



### Description

The Tree Saw is fabricated from a 1" thick steel plate. The saw has a double-sided cutting edge with deeper, more aggressive cutting teeth on one side and shallower, less aggressive teeth on the other, which is best suited for trees with a base diameter of 8" or less. This saw helps maintain a 50-foot clear zone by cutting low hanging limbs, thorns and poisonous vines in areas on sloped banks and hard to access areas. The Tree Saw attaches to a backhoe, which is often used in brush cleanup efforts to help load cumbersome brush such as thorny locust, evergreens and hedge.

### Benefit

The extended reach of the backhoe boom improves efficiency and safety by keeping employees off steep and hazardous slopes and ditch lines encountered on our right of way. It also eliminates employees handling thorny and cumbersome brush by hand.

### Materials and Labor

8' by 5" Piece of Flat Steel - \$50

Misc. ½" Scrap used for adding bracing - \$30

Labor: 80 hours

### For More Information Contact:

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Additional photos can be seen by accessing the Innovations Challenge SharePoint page at:  
<http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>.