

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

**April 2016**  
Prepared by Transportation Planning  
Missouri Department of Transportation

## Brine Maker



### Description

The Brine Maker is a modified 9' stainless v-bed spreader. Due to the volume produced, one unit can make brine for multiple locations. This innovation has been so popular that two districts have already built units.

### Benefit

The Brine Maker saves money due to inexpensive construction, zero material loss and the ability to recycle material back into mixed material. With easy clean out the Brine Maker saves time and simplifies work.

### Materials and Labor

Materials cost: \$1,083 (*See back for complete list.*)

Labor: 81 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>.

Materials
8x20' 12-gauge Stainless Steel
1x2' Stainless Steel Mesh
10' Piece of Stainless Strap
6" Stainless Steel Nipple
3 - 1x2" Stainless Steel Nipple
2 - 2x7' Destination Boards
10' Stick of 1-1/2" PVC
10' Stick of 2" PVC
10' Stick of 3" PVC
Miscellaneous PVC Fittings of Varies Sizes
2 - 2" Banjo Ball Valves
2 - 3" Banjo Tank Flanges
2" Banjo Tank Flange
6" Ball Valve

