

NEBRASKA: Hydraulic Broom

- Tim Ryan
Keith County



NEBRASKA: Hydraulic Broom

Problem

- Annual chip sealing with expensive equipment.
- A broom to clean surface prior to chipping, and to remove excess rock after, had to be rented each year.



NEBRASKA: Hydraulic Broom

Solution

- An operational broom that can be easily transported to each project while allowing grader to conduct normal operations.
- Operates from snow wing controls, rotates side to side, and runs in forward and reverse.



NEBRASKA:

Hydraulic Broom

Labor & Materials

Labor: 30 hours to fabricate

Materials:

- Scrap broom and hydraulic motor
- Lift group hooks = \$1500
- Hoses and fittings = \$150

Compared to:

- Cost of new broom ~ \$ 35,000
- Cost of used broom ~ \$10,000 to \$12,000



NEBRASKA: Hydraulic Broom Savings & Benefits



- Broom is easy to see from the operator seat, which saves on wear and keeps cost of replacement down.
- Broom has been used on every chip project as well as for other events.
- Broom has saved cost of equipment as well as time.