

SPREADERS AND LIQUID APPLICATION SYSTEMS

Bonnell tailgate spreader

<https://www.bonnell.com/>

State	Quantity tested	Season tested	Instructions	Ease of installation	Vendor support	Durability	Addressed problem	Overall satisfaction
North Dakota	3	2017-19	N/A	5	5	5	5	5
Average rating			N/A	5 - extremely easy	5 - extremely helpful	5 - excellent	5 - extremely well	5 - extremely satisfied

Comments

North Dakota DOT (2017-2019) • Overall rating: 5

Bonnell tailgate sander was custom designed to fit the Bonnell RDS bodies. The sanders will also match into other RDS bodies with only a little customization. The tailgate sanders allow the boxes to lift to dump material and open the tailgate. NDDOT mostly used these tailgate sanders with Towplows. The Bonnell tailgate sanders are bid on the next build of NDDOT snowplows.

Henderson First Response System (slurry spreader)

<http://www.hendersonproducts.com/liquid-ice-control-systems.html>

State	Quantity tested	Season tested	Instructions	Ease of installation	Vendor support	Durability	Addressed problem	Overall satisfaction
North Dakota	1	2015-16	4	4	5	5	5	5
Minnesota	1	2011-12	4	3	4	NA	4	4
Average rating			4 - helpful	3.5 - easy	4.5 - extremely helpful	5 - excellent	4.5 - extremely well	4.5 - extremely satisfied

Comments

North Dakota DOT (2015-2016) • Overall rating: 5

One unit in state. The slurry box performs very well. Operator has very high opinion of the unit. Relatively high cost for the unit makes expansion to fleet difficult.

Minnesota DOT (2011-2012) • Overall rating: 4

Limited usage because of lighter winter, so product durability was not assessed.

Henderson zero-velocity spreader

<http://www.hendersonproducts.com/>

State	Quantity tested	Season tested	Instructions	Ease of installation	Vendor support	Durability	Addressed problem	Overall satisfaction
Minnesota	2	2008-09	4	4	5	5	5	5
Average rating			4 - helpful	4 - easy	5 - extremely helpful	5 - maintained excellent condition	5 - extremely well	5 - extremely satisfied

Comments

Minnesota DOT (2008-2009) • Overall rating: 5

It is on the implementation list

Monroe salt slurry generator

<https://municipal.monroetruck.com/municipal-trucks/>

State	Quantity tested	Season tested	Instructions	Ease of installation	Vendor support	Durability	Addressed problem	Overall satisfaction
Illinois	1	2014-16	4	4	4	5	4	4
Illinois	7	2010-12	5	n/a	5	5	5	5
Illinois	3	2009-12	5	n/a	5	5	5	5
Minnesota	1	2010-11	3	2	3	4	4	4
Average rating			4.3 - helpful	3 - average	4.3 - helpful	4.8 - maintained excellent condition	4.5 - extremely well	4.5 - extremely satisfied

Comments

Illinois DOT (2014-2016) • Overall rating: 4

The slurry generator has proven to save on salt and the truck route it covers is usually finished ahead of the other truck routes. The slurry generator does call for the use of more liquid salt, which can be an issue if you do not have enough on hand. There are a lot more components with the slurry generator versus the tailgate spreader as well as a huge price difference. Hopefully, overtime repairs stay at a minimum, though we have not had any issues yet. The slurry generator has worked great for us so far, and would obtain more if the budget would allow for it.

Illinois DOT (2010-2012) • Overall rating: 5

Monroe's support has been very good. We estimate approximately a 30% savings in salt. Initially our test started with 2 units and we have increased to 7 units.

Illinois DOT (2009-2012) • Overall rating: 5

There were some initial minor issues, but now that we have the systems working well they are excellent. They improve performance while reducing the amount of salt required. They are especially effective in situations where deicing is necessary.

Minnesota DOT (2010-2011) • Overall rating: 4

Awaiting final report.

Salt skirts

State	Quantity tested	Season tested	Instructions	Ease of installation	Vendor support	Durability	Addressed problem	Overall satisfaction
Minnesota	4	2009-10	NA	4	NA	4	4	4
Average rating			NA	4 - easy	NA	4 - maintained good condition	4 - well	4 - satisfied

Comments

Minnesota DOT (2009-2010) • Overall rating: 4

MnDOT purchased two different vendors' products and modified them into one in order to better meet its needs.

Scale-Tec Calibrator IV portable spreader calibration scale

<http://www.scale-tec.com/>

State	Quantity tested	Season tested	Instructions	Ease of installation	Vendor support	Durability	Addressed problem	Overall satisfaction
Illinois	1	2008-09	3	5	3	5	5	4
Minnesota	25	2008-09	n/a	4	4	5	5	5
Average rating			3 - average	4.5 - extremely easy	3.5 - helpful	5 - maintained excellent condition	5 - extremely well	4.5 - extremely satisfied

Comments

Illinois DOT (2008-2009) • Overall rating: 4

Excellent tool to calibrate spreader control systems

Minnesota DOT (2008-2009) • Overall rating: 5

It's on the implementation list.

VariTech liquid application system - 1850 gal.

<http://www.varitech-industries.com/Products/Application-Systems/Slide-In-Anti-Icing-System>

State	Quantity tested	Season tested	Instructions	Ease of installation	Vendor support	Durability	Addressed problem	Overall satisfaction
Arizona	3	2015-16	3	4	5	5	5	4
Average rating			3 - average	4 - easy	5 - extremely helpful	5 - excellent	5 - extremely well	4 - satisfied

Comments

Arizona DOT (2015-2016) • Overall rating: 4

VariTech is a subsidiary of Force America so we deal with the same rep for both in AZ. Their support after the sale is always outstanding.