COG WINTER WEATHER MEETING

Maryland Department of Transportation

State Highway Administration

Office of Maintenance

November 10, 2020

ASSETS

- 28 Maintenance Shops in 7 Districts
- 17,373 Lane Miles
- 5,206 Centerline Miles
- 39.6 Billion Annual Vehicle Miles of Travel
- Annual Average Daily Traffic
 - 50,000+: 3,205 Lane Miles (19%)
 - 10,000-49,999: 7,4507 Lane Miles (43%)
 - <9,999: 6,661 Lane Miles (38%)

RESOURCES

- ~1,100 Maintenance Shop Employees
 - ~740 Field Employees
 - ~110 Managers
 - ~200 Administrative Staff and Mechanics
 - ~50 Winter Volunteers
- ~600 MDOT SHA Dump Trucks
- ~2,000 Hired Equipment Contractors
- \$71 Million Winter Budget
- ~400,000 tons Salt
- ~1.7 million gallons Salt Brine



YEAR-ROUND WINTER PLANNING



WINTER PREP – SUMMER

- Update Statewide Salt Management Plan
- Finalize New Salt Contracts with DGS
- Repair/Replace Salt Structures
- Repair/Replace Brine Tanks and Components
- Repair/Replace Brine Makers
- Restock Inventory for Winter Equipment Needs

WINTER PREP – FALL

- Prepare/Finalize Hired Equipment Contracts
- Develop/Finalize Route Plans
- Re-Stock Material Supplies Salt, Brine, Plow Blades, etc.
- Prepare State Equipment
- Host Hired Equipment Meetings
- Inspect and Calibrate Equipment State and Hired
- Host Internal Town Meetings
- Complete Snow College for New Hires
- Complete Practice Runs and Route Inspections

WINTER EVENTS

- Monitor Weather
- Participate in Statewide Calls
- Apply Salt Brine as Warranted
- Prepare District/Statewide Plans
- Act on Plans
- Monitor Weather and Pavement Temperatures/Conditions
- Adjust Plans Appropriately
- Clean-Up
- Re-Stock Material Supplies Salt, Brine, Plow Blades, etc.
- Inspect and Repair Equipment
- Make Roadway Repairs Potholes
- Repeat!



WINTER CLEAN-UP - SPRING

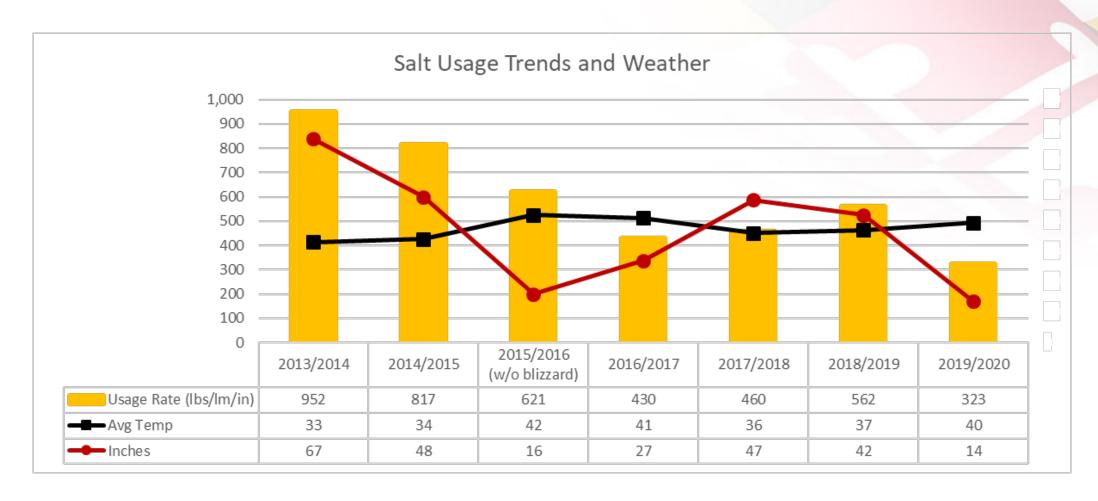
- Assess and Repair Salt Structures
- Re-Stock Salt Supply
- Clean, Inspect, and Repair All Equipment
- Clean Brine Makers and Saddle Tanks
- Assess and Repair/Replace Brine Tanks and Components
- Assess and Repair/Replace Brine Makers
- Perform Route Inspections and Make Roadway Repairs
- Analyze Data captured from Watersheds and Stream Monitoring

TOP ACCOMPLISHMENTS

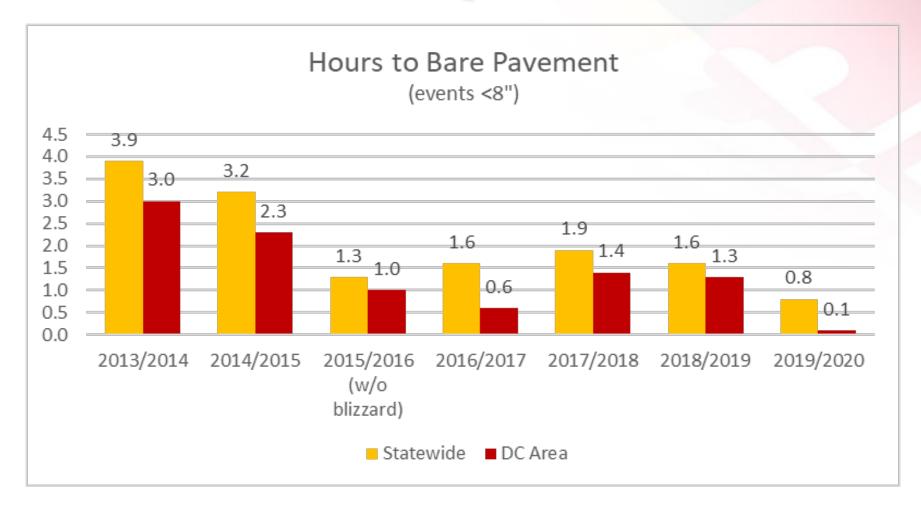
- Continued Salt Reduction Savings the past 7 Winter Seasons
- Average 2 Hours to Bare Pavement the past 7 Winter Seasons



SALT USAGE TRENDS/WEATHER



BARE PAVEMENT



WINTER TECHNOLOGY

- Loader Scales
- Additional Contract Anti-Icing Equipment
- Expanded Direct Liquid Application Routes
- Slide-In Tanks
- Additional Brine Making and Storage Capacity
- MARWIS
- Dual Wing Plows
- Barcode Scanner Asset Panda
- S.T.O.R.M. App

BRINE OPERATION

New Brine Maker



Brine Tanks

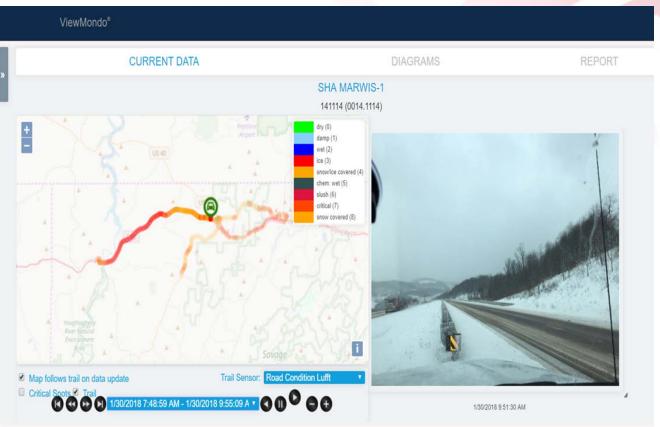


Brine Application



MARWIS





DUAL WING PLOW

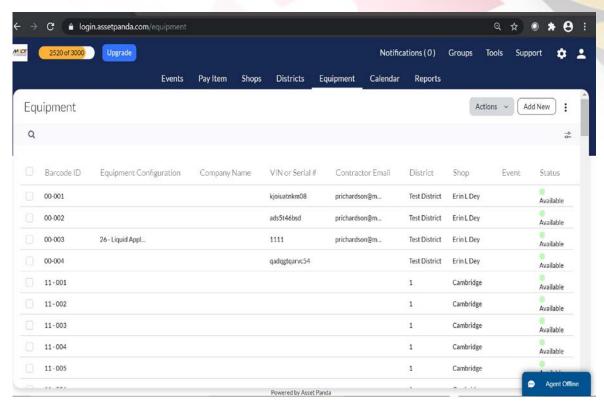




BARCODE SCANNER – ASSET PANDA



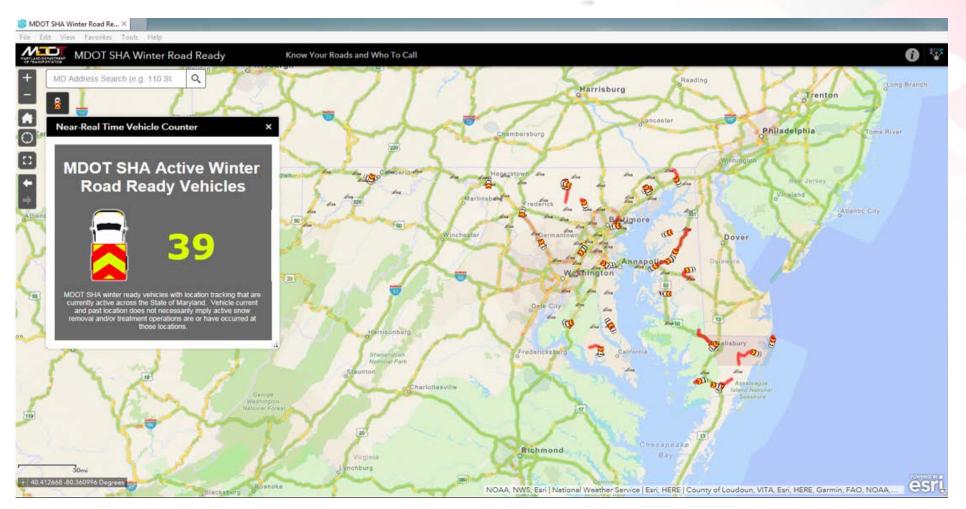




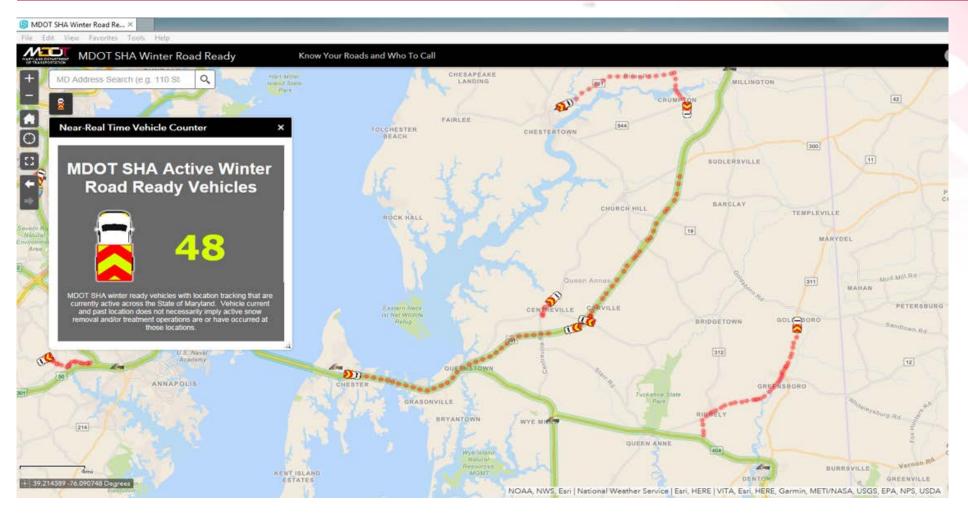
S.T.O.R.M. APP



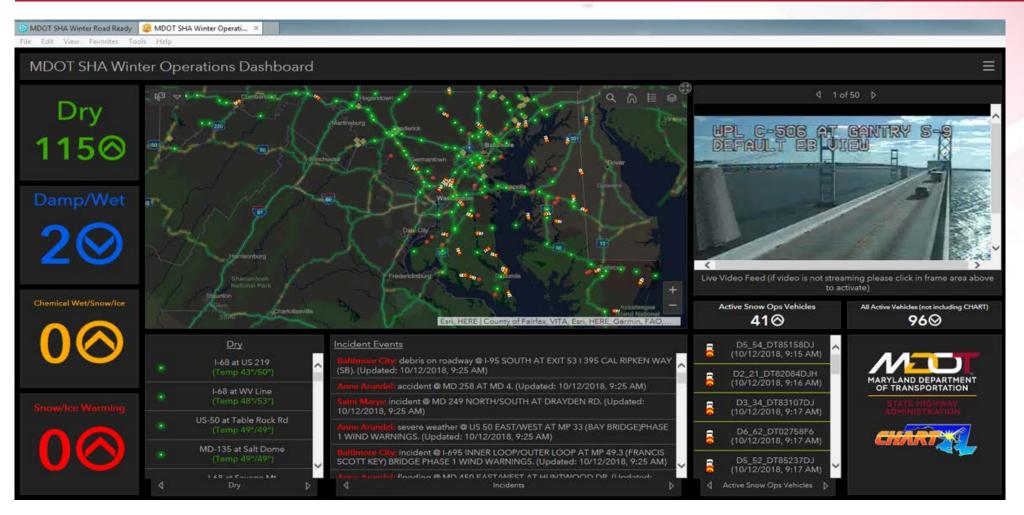
S.T.O.R.M. – PUBLIC



S.T.O.R.M. – PUBLIC



S.T.O.R.M. – INTERNAL



WINTER DURING COVID - MDOT SHA

- MS Teams Statewide Town Meeting
 - November 19th
- Different Reporting Areas
- Staggered Start Times
- Separate Restroom/Resting Facilities for Teams A/B
- Staggered Meal Times
 - Social Distancing at Restaurants
 - Carryout

WINTER DURING COVID - CONTRACTORS

- Appointments for Contract Paperwork Submittal
- Staggered Equipment Inspections
- Pre-Winter Meeting
 - PowerPoint Presentation via link
- Not Permitted in MDOT SHA Buildings
 - Spot-a-Pot?
- Outside Check-In/Check-Out
 - Drive-up windows
 - AVL distribution for season