



# COG WINTER WEATHER MEETING

Maryland Department of Transportation

State Highway Administration

Office of Maintenance



# ASSETS

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- 28 Maintenance Shops in 7 Districts
- 17,442 Lane Miles
- 5,209 Centerline Miles
- 37.1 Billion Annual Vehicle Miles of Travel
- Annual Average Daily Traffic
  - 50,000+: 3,039 Lane Miles (18%)
  - 10,000-49,999: 7,520 Lane Miles (43%)
  - <9,999: 6,863 Lane Miles (39%)



# RESOURCES

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- ~1,040 Maintenance Shop Employees
  - ~730 Field Employees
  - ~100 Managers
  - ~180 Administrative Staff and Mechanics
  - ~30 Winter Volunteers
- ~600 MDOT SHA Dump Trucks
- ~2,500 Hired Equipment Contractors
- \$76 Million Winter Budget
- ~400,000 tons Salt
- ~1.7 million gallons Salt Brine



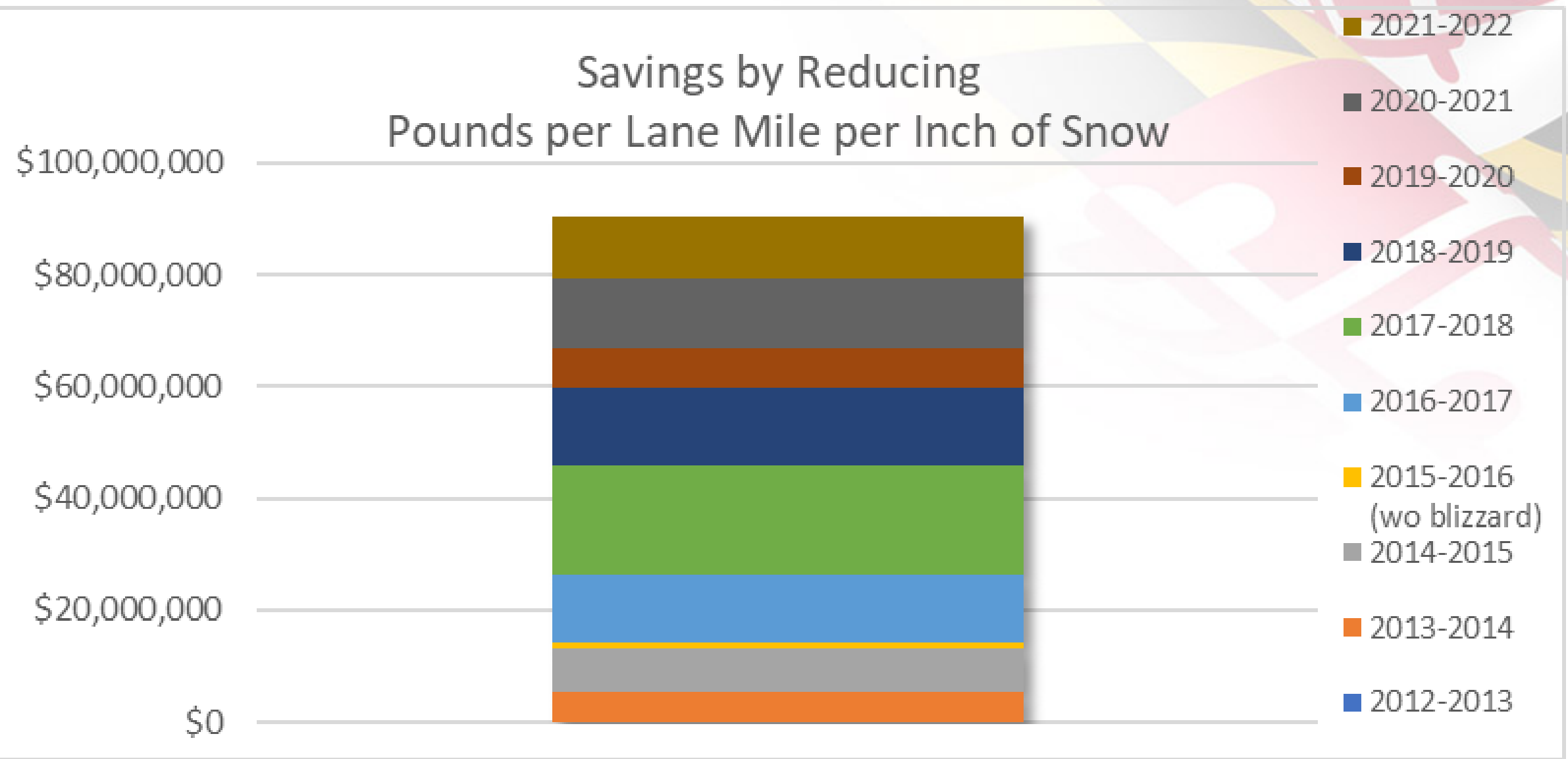
# TOP ACCOMPLISHMENTS

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- Continued Salt Reduction Savings the past 10 Winter Seasons
- Average 2.8 Hours to Bare Pavement the past 5 Winter Seasons

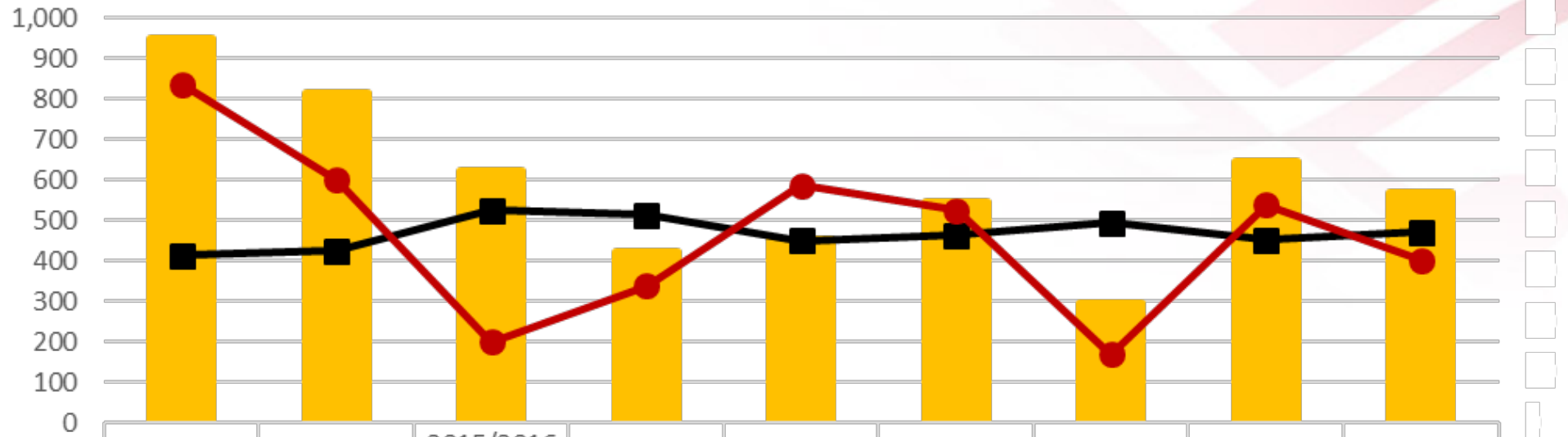


## Savings by Reducing Pounds per Lane Mile per Inch of Snow



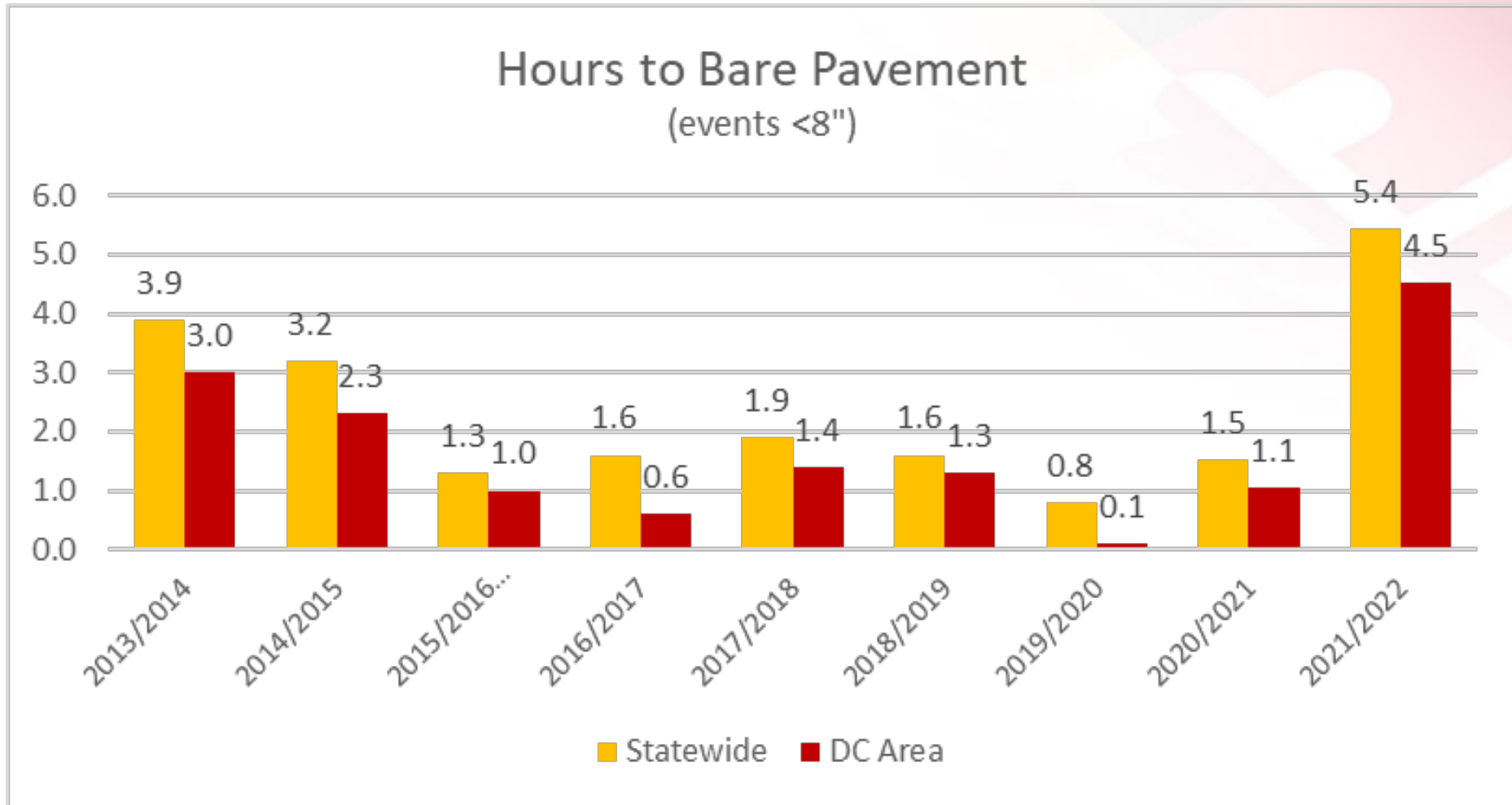
# SALT USAGE TRENDS/WEATHER

Salt Usage Trends and Weather



	2013/2014	2014/2015	2015/2016 (w/o blizzard)	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022
Usage Rate (lbs/lm/in)	951	813	621	420	454	546	296	644	569
Avg Temp	33	34	42	41	36	37	40	36	38
Inches	67	48	16	27	47	42	14	43	32

# BARE PAVEMENT



# WINTER TECHNOLOGY

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- 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
- Waze Connected Citizens Program





# S.T.O.R.M. APP

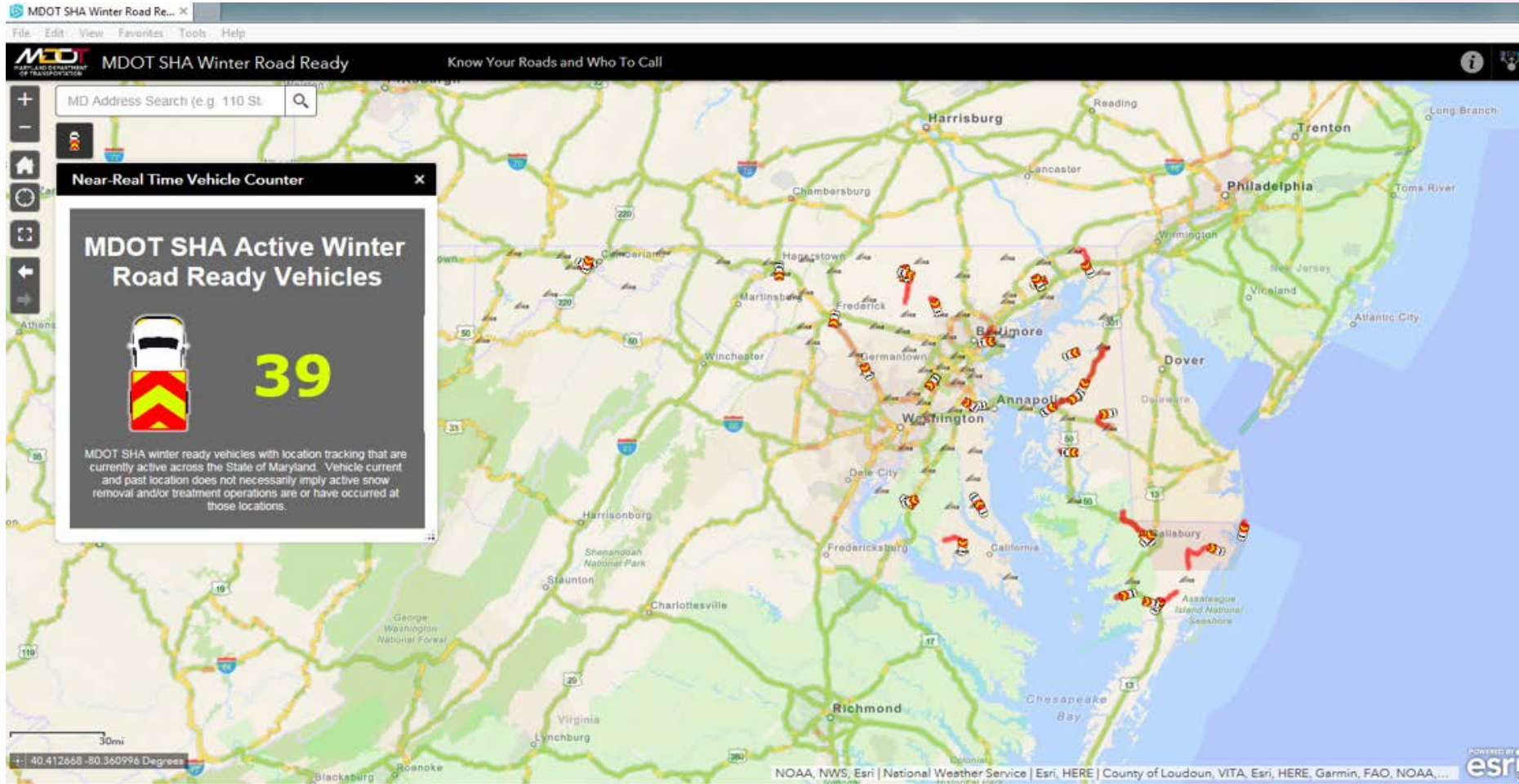
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**APP**

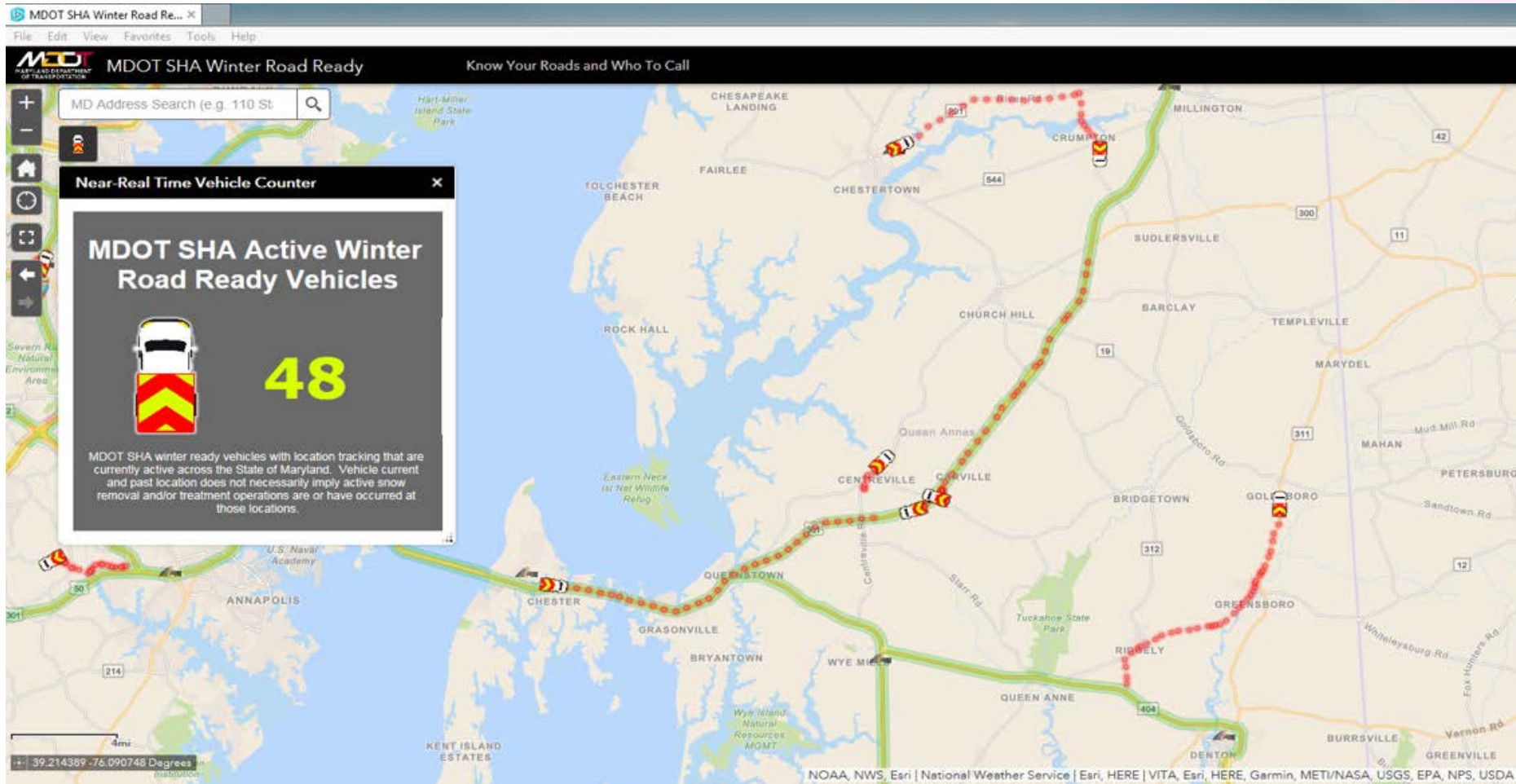


**Winter Road Ready**

# S.T.O.R.M. – PUBLIC



# S.T.O.R.M. – PUBLIC





# S.T.O.R.M. – INTERNAL

MDOT SHA Winter Operations Dashboard

**Dry 1150**

**Damp/Wet 20**

**Chemical Wet/Snow/Ice 00**

**Snow/Ice Warning 00**

**Incident Events**

- Baltimore City:** debris on roadway @ I-95 SOUTH AT EXIT 53 I 395 CAL RIPKEN WAY (SB), (Updated: 10/12/2018, 9:25 AM)
- Anne Arundel:** accident @ MD 258 AT MD 4, (Updated: 10/12/2018, 9:25 AM)
- Saint Marys:** incident @ MD 249 NORTH/SOUTH AT DRAYDEN RD, (Updated: 10/12/2018, 9:25 AM)
- Anne Arundel:** severe weather @ US 50 EAST/WEST AT MP 33 (BAY BRIDGE)PHASE 1 WIND WARNINGS, (Updated: 10/12/2018, 9:25 AM)
- Baltimore City:** incident @ I-695 INNER LOOP/OUTER LOOP AT MP 49.3 (FRANCIS SCOTT KEY) BRIDGE PHASE 1 WIND WARNINGS, (Updated: 10/12/2018, 9:25 AM)
- Anne Arundel:** flooding @ MD 450 EASTMOST AT HUNTINGWOOD DR, (Updated: 10/12/2018, 9:25 AM)

**Active Snow Ops Vehicles: 410**

- D5\_54\_DT85158DJ (10/12/2018, 9:15 AM)
- D2\_21\_DT82084DJH (10/12/2018, 9:16 AM)
- D3\_34\_DT83107DJ (10/12/2018, 9:17 AM)
- D6\_62\_DT02758F6 (10/12/2018, 9:17 AM)
- D5\_52\_DT85237DJ (10/12/2018, 9:17 AM)

**All Active Vehicles (not including CHART): 960**

**MDOT MARYLAND DEPARTMENT OF TRANSPORTATION**

**STATE HIGHWAY ADMINISTRATION**

**CHART**

# DC AREA MANAGEMENT – MDOT SHA

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## Montgomery County

- Greg Edwards, ADE-M
  - 301.513.7331
- Kola Fadairo, RME Gaithersburg
  - 301.948.2477
- Sidney Proctor, RME Fairland
  - 301.572.5166

## Prince George's County

- Justin Sosebee, ADE-M
  - 301.513.7320
- Rick Shagogue, RME Laurel
  - 301.776.7619
- Ernie Johnson, RME Marlboro
  - 301.952.0555



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