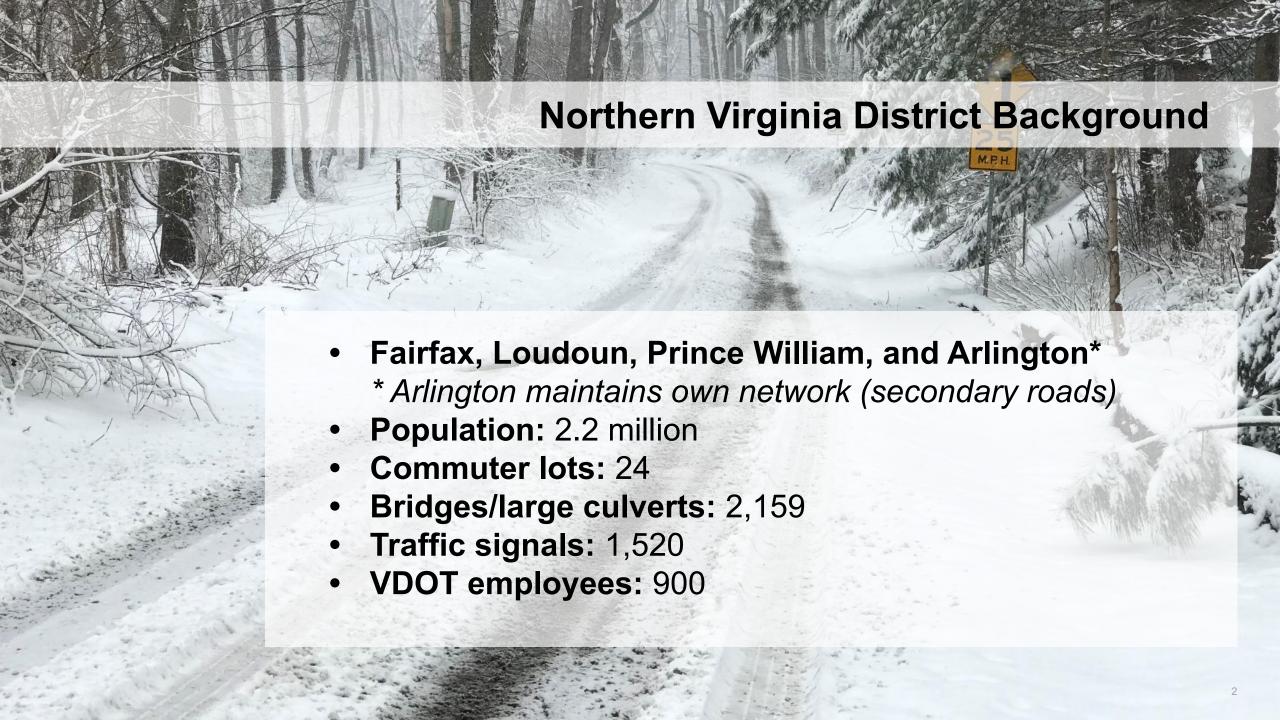


#### **NORTHERN VIRGINIA SNOW BRIEFING**

Metropolitan Washington Council of Governments

Lauren Mollerup, P.E., CCM, District Maintenance Engineer





#### **Total lanes miles: 14,198**

Interstate: 802

• **Primary**: 1,687

• **Secondary:** 11,634

• **Gravel**: 573

• Frontage: 75

Total subdivision streets:

17,246

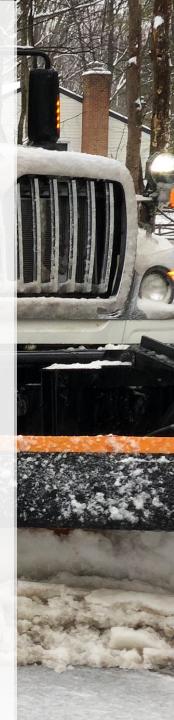
#### 18 maintenance headquarters

Arlington:1

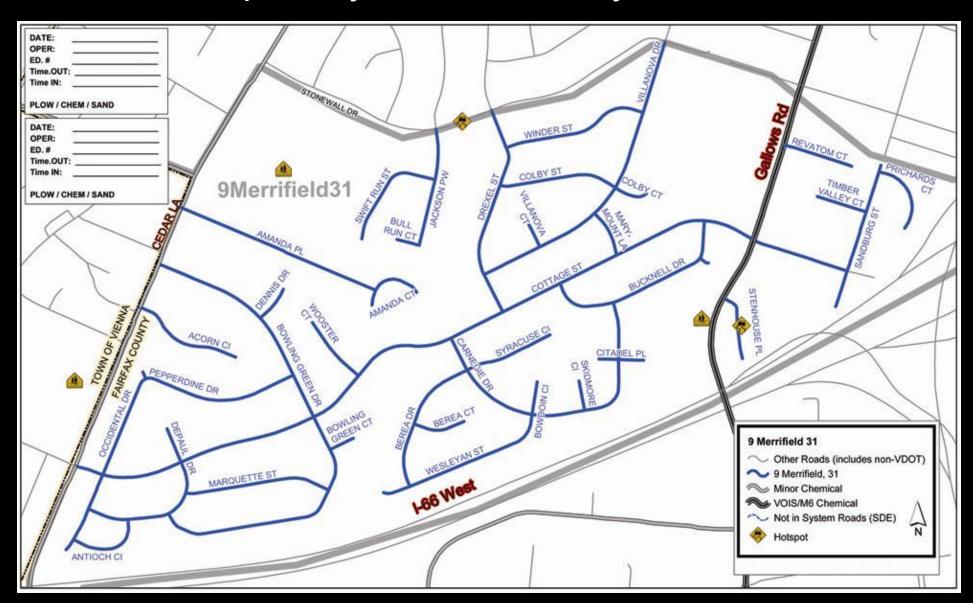
• Fairfax: 9

• Loudoun: 4

• Prince William: 4



The district is divided into **648 snow maps** to include interstates, primary, and secondary roads.



#### 2022-2023 Snow Removal



# Planning, Preparations, & Training







#### VDOT MOBILIZATION PLAN VDOT MOBILIZATION PLAN Start Time: TBD – End Time: TBD EVENT #16; AU1 # NVSNW1916

Weather Summary:
The DME has declared an local emergency at 0:00 M on //19.

airfax

		Day Shift Residency Ma Jerry Himes 571-969-			Night Shift Residency Manager Paul Matticks - 703-975-5027					
	Area	Day Shift Mgr.	Mobile	Night Shift Mgr.	Mobile	Snow Room#				
	102 Merrifield	Melvin Riser	(571)749-8058	Craig Detwiller	(703)638-8795	703-259-2317				
FAIRFAX	103 Chantilly	Justin Springhetti	(571)749-8870	Keith Wester	(703)268-0121	703-259-2317				
	104 Clifton	Russell Dodson	(571)749-8072	David Klink	(571)749-8045	703-259-2317	_			
	105 Van Dorn 106 Lorton	Harry Lagree Howard Akers	(703) 774-2803 (571)749-8061	Howard Stewart Shane White	(571) 238-7091 (703)656-1520	703-259-2317 703-259-2317	_			

	107 Mt. Vernon 109 McLean					N	OVA 4:0	0am St	atus Repo	rt 3/8/19	
LOUDOUN	110 Reston 111 Burke Loudoun	Area	Air Temps	Surface Temps	Precipitation/A ccumulation	Current Weather Conditions (Clear/Fair/Poor/ Moderate)	# of VDOT	# of M7B Trucks	Service Contract Trucks	# M7B Loaders/Heavy Equipment	
	Area 201 Arcola	Interstate/ Arlington	34-39	34-38	0	Clear	4	2	43	4	
	201 Arcola 202 Hillsboro 203 Leesburg 204 St. Louis	boro Biburg Fairfax		35	0	Cloudy / Rain	31	444	0	8	
		Loudoun	32-35	33-35	0.0 in east 2-inches Hillsboro	Cloudy	14	57	70	2	
PRINCE WILLIAM	Area  Dumfries AHQ  Gainesville AHO	Prince William	33-34	33-37	wet / 0	Cloudy	19	13	0	1	
	Lake Ridge			571 749-8056 Bill Cornell			3 590-5131				
	Manassas AHQ	Glenn Gill	57	1-221-6074	Darren Dodson	571-220-5278 70	3 366-2033				

SWAS

Updated?

yes

Yes

**SWAS** 

2:00am

yes

Monitors

4

TOC/VA-511

Road Closures

None

N/A

0

Updated at None At this time

Issues/Comments

None reported

N/A

Icing out in western

areas

No issues and on

standby

	Day Shift Residency	/ Manager Jimmy Colem	an (571) 259-5813	Night Shift Residency Manager (7 PM - 7 AM)				
INTERSTATE/	Area	Day Shift Mgr.	Mobile	Night Shift Mgr.	Mobile	Snow Room#		
AKLINGTON		.,				703-486-3393		
		,						
						703-486-3393 703-486-3393		
	404 - Beltway (495)	Robert Red	571 238-0347	Stanley Newman	571-220-5315	703-486-3393		

#### 2021-2022 NOVA Mobilization Levels

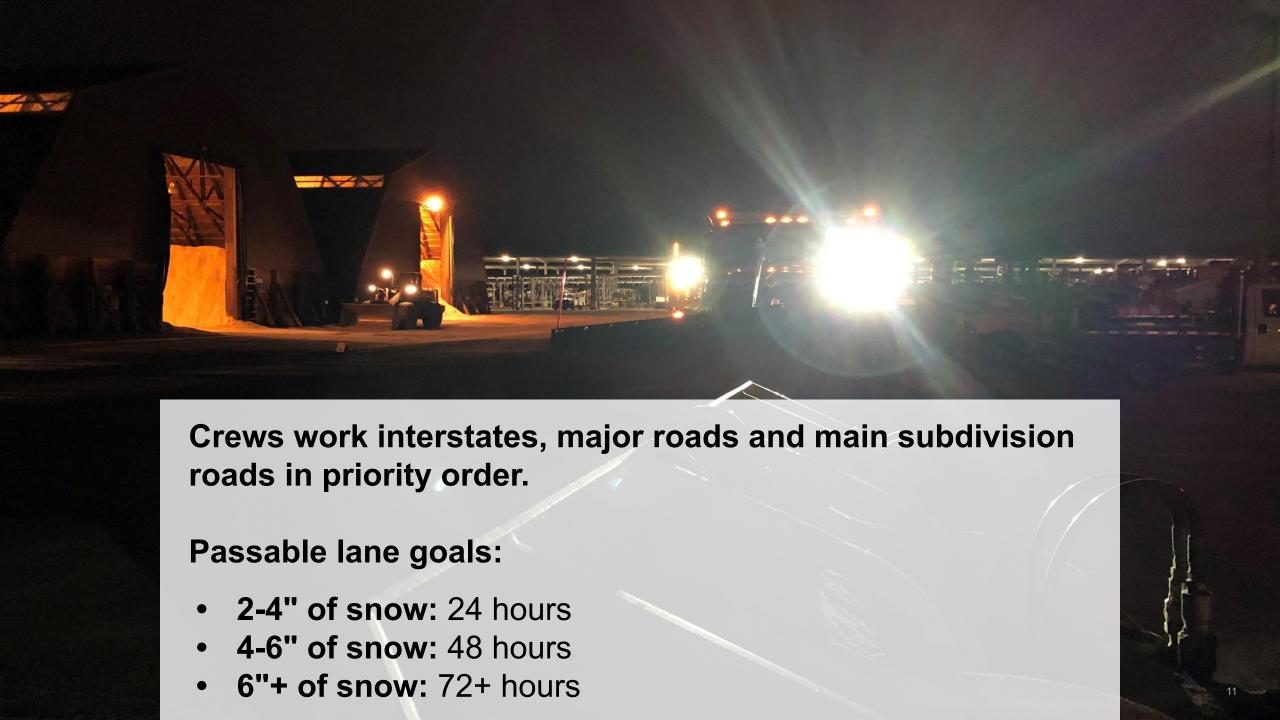
Weather Forecast	Mob. Level	Response Plan	SALT Application Rate*	* Applied Lane Miles		Equipment Required (based carry		d on VDOT single axle truck ying)		Staffing	Reports	
				Area	Miles	Area	Liquid	Salt	Total			
Precipitation: 20% or Greater Accumulation: Ice/Snow Possible Ambient or Pavement				FFX	1520	FFX	50		50			
	Anti Ice	Treatment of Critical	Application Liquid: 50 gal/ln mi Application Salt: 325	PW	250	PW	13	7	20	State and Hired Anti-Ice Units		
	Antilice	Structures & Locations	lbs/ln mi	LDN	700	LDN	30		30			
Temp: 30-36			100/111 1111	INT	400	INT	10	14	24			
				DISTRICT	2870	DISTRICT	103	21	124			
				Area	Miles	Area	Liquid	Salt	Total	Maintenance		
Precipitation: 20%-49% or		Spot Treatment of		FFX	1520	FFX		121	121			
Greater Accumulation: Snow	Skeleton	Critical Structures &	20E lba/la mi	PW	570	PW		14	27		SWAS updates, HETTS data input	
Possible Ambient or Pavement	Crews	Locations Respond to Icy Conditions as	325 lbs/ln mi	LDN		LDN		20	20			
Temp: 30-36		Needed		INT	400	INT		24	24			
				DISTRICT		DISTRICT		179	192			
				Area	Miles	Area	Liquid	Salt	Total			
Precipitation: 20%-49% or		Springfield		FFX		FFX		492		Maintenance	SWAS Updates	
Greater Accumulation: Snow	4	Interchange, Spot	325 lbs/ln mi	PW		PW		19		Crews,	and HETTS time	
Possible Ambient or Pavement	1	Treatment of Other Critical Structures & Locations		LDN	700	LDN		89		Limited support staff	entries within two	
Temp: 30-36				INT		INT		47	47		hours of check-in	
				DISTRICT	8027	DISTRICT		647	647			
	2	Light Salting	400 lbs/ln mi	Area	Miles	Area	Liquid	Salt	Total	District Monitors, District Support Team		
Precipitation: 50%-100%		Operation; Limited		FFX	5857	FFX		992				
Chance Accumulation: Up to 1		Work in Subdivisions - Includes Cold Spot Treatment in Subdivisions & Gravel Roads		PW	1223	PW		127	140		SWAS Updates,	
inch of Snow Ambient or				LDN		LDN		136			Idle Time Alerts, Lost Power Alerts	
Pavement Temp: 25-29				INT		INT		94	94		Lost Fower Alerts	
				DISTRICT	9791	DISTRICT		1349	1349			
		Salting Operation; Potential for Plowing; Includes Cold Spot Treatment in Subdivisions & Gravel Roads		Area	Miles	Area	Liquid	Salt	Total	Mechanics on Site Call Center Open, Snow Rooms Open, VA Traffic	SWAS reports@8am,2pm,	
Precipitation: 50%-100%				FFX	8024	FFX		1938	1938			
Accumulation: Up to 2 inches of	3			PW	3680			339	352			
Snow or 1/10 inch of Ice			475 lbs/ln mi	LDN	3137	LDN		371	371		Time Alerts, Lost Power Alerts, Geo	
Ambient or Pavement Temp:				INT	1894			130	130		Fence Violation	
20-24				DISTRICT		DISTRICT		2778	2791		Alert, Exception Report	
				Area	Miles	Area	Liquid	Salt	Total		SWAS	
		Salting/Plow Operation; Includes Plowing Subdivisions & Sanding as Necessary	550 lbs/ln mi	FFX	8024	FFX		2220	2220	All of the Above	reports@8am,2pm,	
Precipitation: 50%-100%				PW	3680			520			8pm,2am, Idle Time Alerts.Lost	
Accumulation: Up to 6 inches of Snow or 1/4 inch of Ice Ambient	4			LDN		LDN		511	511		Power Alerts, Geo	
or Pavement Temp: 15-19				INT	1894			241	241		Fence Violation	
				DISTRICT		DISTRICT		3492	3492		Alert, Exception Report	
Precipitation: 50%-100% Accumulation: Up to 6 inches of		Salting/Heavy Plow Operation; Includes Plowing Subdivisions & Sanding as Necessary ALL RESOURCES ARE DEPLOYED		Area	Miles	Area	Liquid	Salt	Total		SWAS	
	1 5 1		625 lbs/mi	FFX	8024		Liquid	2341	2341	All of the Above, Heavy Equipment and Possibly HERT Teams	reports@8am,2pm,	
				PW	3680			646			8pm,2am, Idle	
				LDN	3137			580	580		Time Alerts,Lost Power Alerts, Geo	
Snow or 1/4 inch of Ice Ambient or Pavement Temp: 10-14				INT	1894			422	422		Fence Violation	
or ravement temp. 10-14				DISTRICT		DISTRICT		3989			Alert, Exception Report	
					10133	PIOTRIOI		9909	5909		rtoport	

- Anti-icing treatment most effective during first hour of weather event
- Reduces bonding to asphalt and concrete surfaces
- Piloting brine treatments during storms when conditions are favorable

Depending upon the storm and the window of time, we may perform a partial or full treatment of all bridges, overpasses, elevated surfaces, primary and/or secondary roads.







#### **Additional priorities:**

- Getting the roadways as safe as possible
- Shoulders, ramps, turn lanes, intersections
- 12,000 park-and-ride spaces

#### **Sidewalks and Trails**

- Crews asked to be mindful, but often limited room to pile snow from roads
- Special care is requested near schools and emergency facilities
- Residents and businesses are asked to clear near their property
- Check with localities for ordinances



# VDEQ Salt Management Strategy (SaMS)

- Since January 2018, VDOT has participated in the Salt Management Strategy (SaMS) development coordinated by the Virginia Department of Environmental Quality (VDEQ)
- Stakeholders working to balance public safety and impacts of salt use
- Aims to raise awareness of salt use; share how individuals, businesses, and organizations can participate; and provide voluntary guidance for potential monitoring and research
- SaMS Tool kit finalized March 2021- Details: https://www.novaregion.org/1399/Northern-Virginia-Salt-Management -Strate



Salt Management Strategy

# Sustainable Winter Management (SWiM)

VDOT will continue working with WIT Advisers for the next 2 winter seasons on additional evaluation of current salt use, management with specific staff/contractor(s) and development of salt sustainability training.

Past seasons work supported the VDEQ SaMS study including focusing on areas within the Accotink Watershed (I-95 and Route 1 corridor) as well as select areas in Loudoun and Prince William counties. In this current phase, we are targeting a focused corridor in Fairfax County and contractor to administer specific training regarding salt sustainability and management. Additional training will be developed this season with the goal of being implementable Districtwide in 2023 -2024 season.

- Deliver awareness and technical training regarding road salt use
- Assess current practices and identify anomalies (continue Discovery)
- Measure and verify salt application rates
- Conduct salt calibration training
- Assist decisions when to use anti-icing/brining; less granular application
- Observe pre–season preparations for VDOT staff and contractors
- Installation of salt tracker devices on Route 50 contractor vehicles
- Analyze Route 50 level of service (LOS) from RWIS Cameras





#### **INNOVATION**



# WAZE application

# Innovation Updates

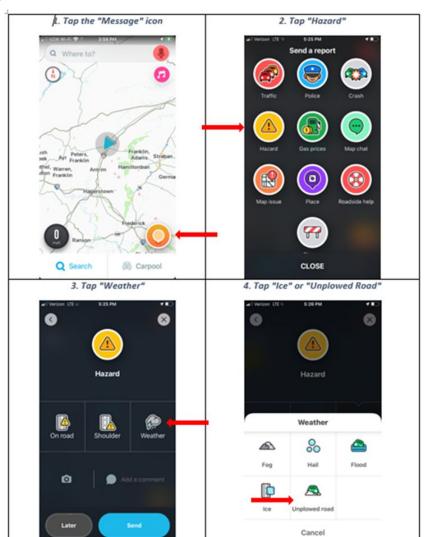


# 2022-2023 Plan

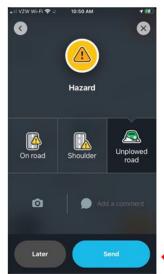
- •Road Monitors use Waze to report road condition
- (real-time & optional)
  - Open Waze App
  - •Click Report Button in bottom right corner
  - Select yellow Triangle hazard icon
  - Select weather type
  - Select unplowed road option
  - •Tap send to finalize your report, icon will appear on the map



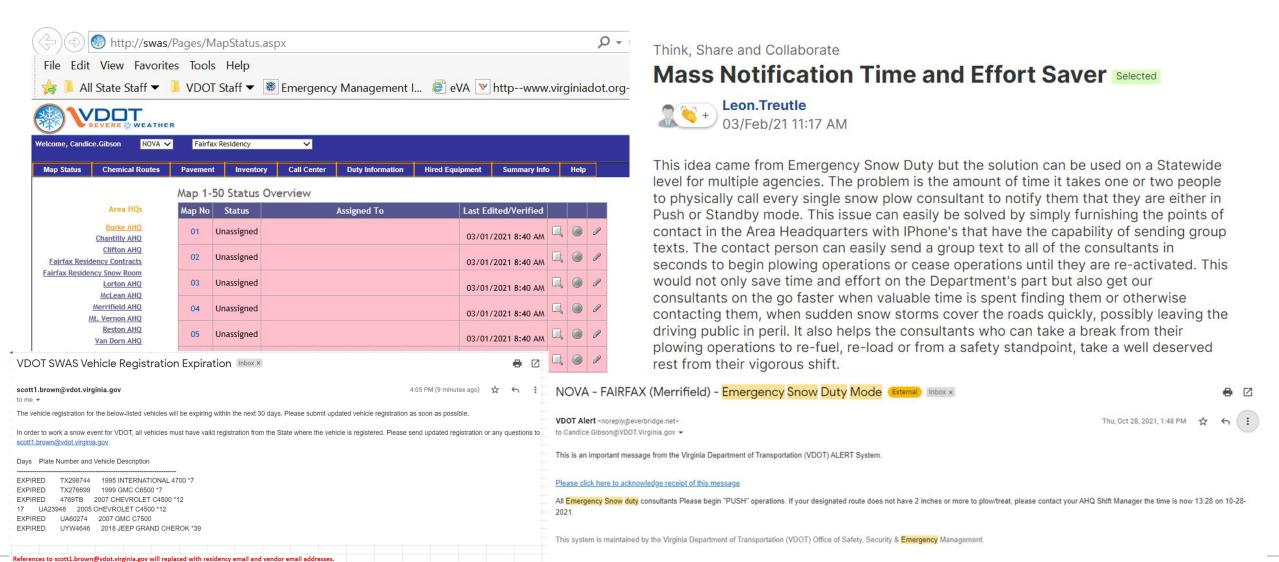
**User Coaching** 







# **SWAS Insurance Expiration & VDOT Alerts**



→ Forward

### **Stay Informed**



virginiadot.org/novaemergency
 One-stop shop for links to news
 releases, Twitter feed, status
 updates, VDOT Plows, customer
 service, FAQs and other
 resources



<u>@vadotnova</u> for updates



 <u>511virginia.org</u> for road conditions and traffic cameras



 vdotplows.org for status of subdivisions once 2" have fallen

Virginia Department of Transportation

