

**DISTRICT**  
**SNOW**  
**TEAM**

 **GOVERNMENT OF THE**  
**DISTRICT OF COLUMBIA**  
**MURIEL BOWSER, MAYOR**

2019-2020 Winter Campaign

# District Snow Team Partners



**“The Preferred Choice”**



# 2018-2019 Snow Season



## Precipitation

16.9 inches fell last season  
9% above historical average  
11.5 inches fell January 13-14th  
2018-2019 was only the 6th snowiest  
season during the last 20 years



## Mobilizations

| Type    | QTY |
|---------|-----|
| Prowl   | 4   |
| Partial | 4   |
| Full    | 7   |

## Staffing



| Agency    | Staff |
|-----------|-------|
| DPW       | 463   |
| DPW-Fleet | 102   |
| DDOT      | 247   |
| Other     | 43    |

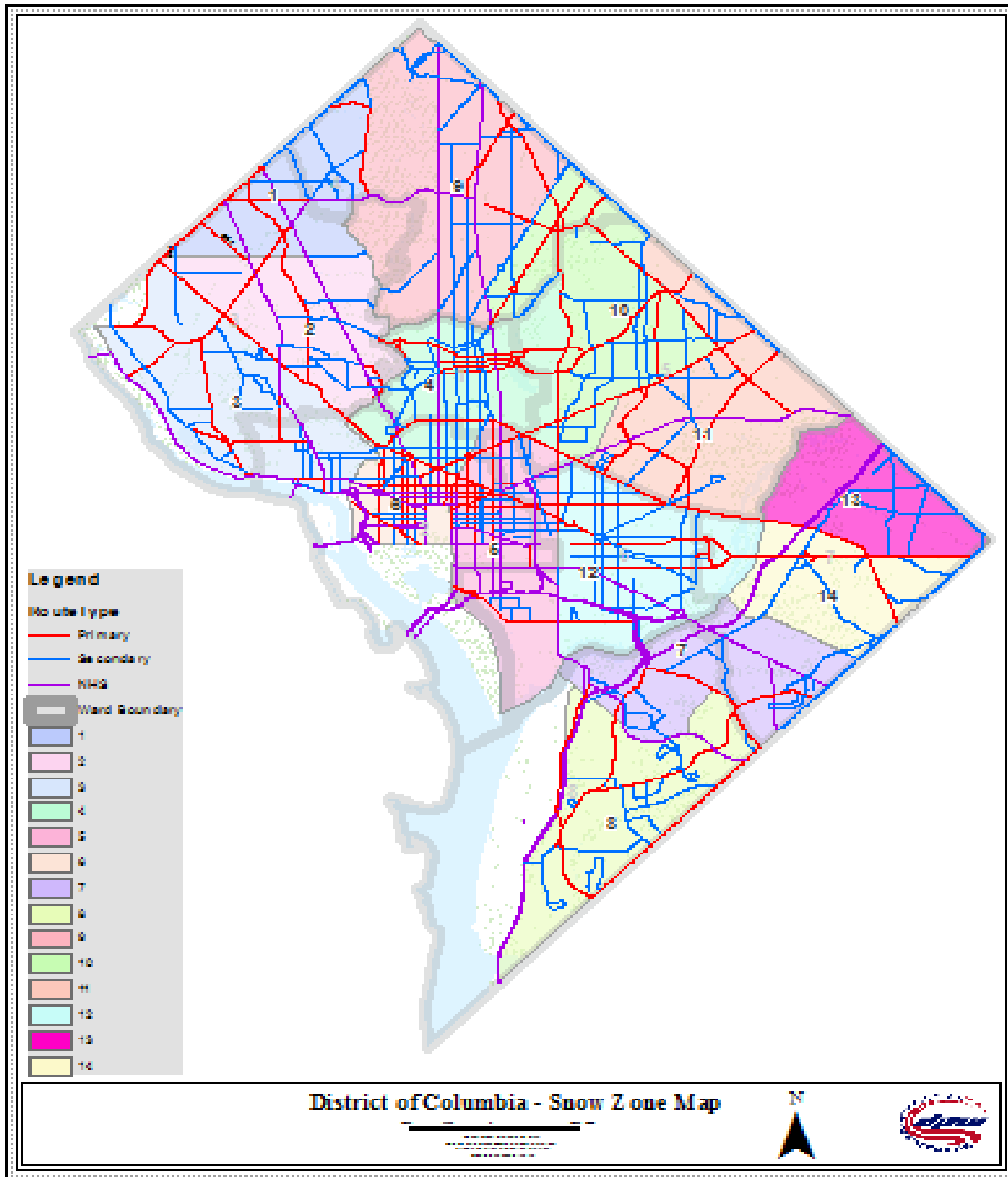


## Resources

| Type      | Amount   |
|-----------|----------|
| OT        | \$726K   |
| Rock Salt | 23K Tons |
| Brine     | 25K Gal  |

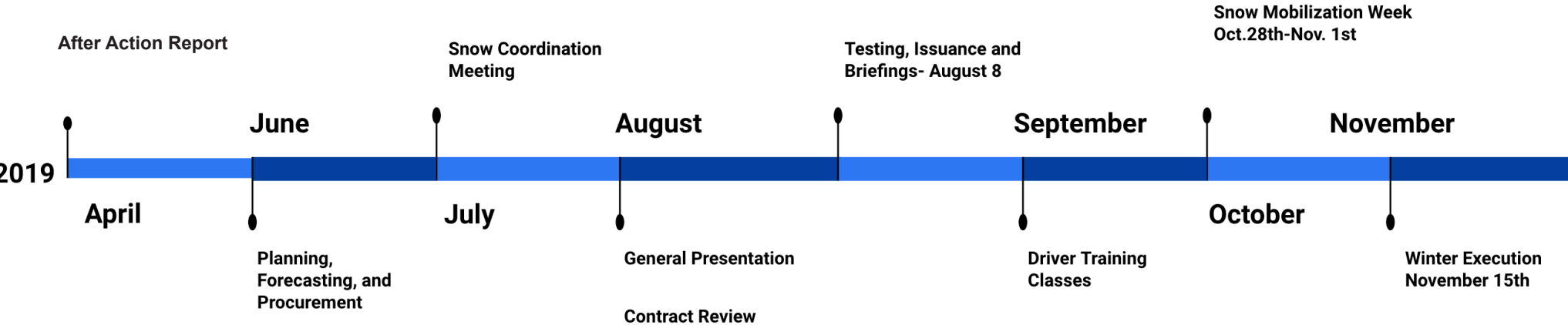
# Snow Zone Map

| Snow Miles by Zone by Type |            |          |          |          |          |          |           |          |          |          |          |          |          |          |                    |             |
|----------------------------|------------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|--------------------|-------------|
| Street Segment Type        | Snow Zones |          |          |          |          |          |           |          |          |          |          |          |          |          | Total Length -Feet | Total Miles |
|                            | 1          | 2        | 3        | 4        | 5        | 6        | 7         | 8        | 9        | 10       | 11       | 12       | 13       | 14       |                    |             |
| NHS                        | 17411.52   | 20284.49 | 36072.22 | 21735.66 | 112525.2 | 59983.33 | 47804.29  | 46428.42 | 43042.04 | 4156.71  | 16968.95 | 41979.18 | 32615.02 | 1630.27  | 502637.34          | 95.20       |
| Primary                    | 37653.61   | 37386.7  | 43987.29 | 64851.15 | 69721.52 | 41524.04 | 19965.96  | 55308.52 | 18421.29 | 83348.79 | 42207.8  | 56126.44 |          | 29943.72 | 600446.83          | 113.72      |
| Secondary                  | 36308.21   | 39690.08 | 72399.94 | 87722.95 | 72126.65 | 30211.95 | 52347.91  | 61427.66 | 88168.99 | 104083.7 | 51112.11 | 99917    | 42536.1  | 35594.72 | 873647.96          | 165.46      |
| Total Length -Feet         | 91373.34   | 97361.27 | 152459.5 | 174309.8 | 254373.4 | 131719.3 | 120118.16 | 163164.6 | 149632.3 | 191589.2 | 110288.9 | 198022.6 | 75151.12 | 67168.71 | 1976732.13         | 374.38      |
| Total Miles                | 17.31      | 18.44    | 28.87    | 33.01    | 48.18    | 24.95    | 22.75     | 30.90    | 28.34    | 36.29    | 20.89    | 37.50    | 14.23    | 12.72    |                    |             |



|     | Feet      |           | Miles |          |        | Feet     |           | Miles     |    |           | Feet  |  | Miles |  |
|-----|-----------|-----------|-------|----------|--------|----------|-----------|-----------|----|-----------|-------|--|-------|--|
|     |           |           |       |          |        |          |           |           |    |           |       |  |       |  |
| NHS | 1         | 17411.52  | 3.30  | Primary  | 1      | 37653.61 | 7.13      | Secondary | 1  | 36308.21  | 6.88  |  |       |  |
|     | 2         | 20284.49  | 3.84  |          | 2      | 37386.7  | 7.08      |           | 2  | 39690.08  | 7.52  |  |       |  |
|     | 3         | 36072.22  | 6.83  |          | 3      | 43987.29 | 8.33      |           | 3  | 72399.94  | 13.71 |  |       |  |
|     | 4         | 21735.66  | 4.12  |          | 4      | 64851.15 | 12.28     |           | 4  | 87722.95  | 16.61 |  |       |  |
|     | 5         | 112525.24 | 21.31 |          | 5      | 69721.52 | 13.20     |           | 5  | 72126.65  | 13.66 |  |       |  |
|     | 6         | 59983.33  | 11.36 |          | 6      | 41524.04 | 7.86      |           | 6  | 30211.95  | 5.72  |  |       |  |
|     | 7         | 47804.29  | 9.05  |          | 7      | 19965.96 | 3.78      |           | 7  | 52347.91  | 9.91  |  |       |  |
|     | 8         | 46428.42  | 8.79  |          | 8      | 55308.52 | 10.48     |           | 8  | 61427.66  | 11.63 |  |       |  |
|     | 9         | 43042.04  | 8.15  |          | 9      | 18421.29 | 3.49      |           | 9  | 88168.99  | 16.70 |  |       |  |
|     | 10        | 4156.71   | 0.79  |          | 10     | 83348.79 | 15.79     |           | 10 | 104083.69 | 19.71 |  |       |  |
|     | 11        | 16968.95  | 3.21  |          | 11     | 42207.8  | 7.99      |           | 11 | 51112.11  | 9.68  |  |       |  |
|     | 12        | 41979.18  | 7.95  |          | 12     | 56126.44 | 10.63     |           | 12 | 99917     | 18.92 |  |       |  |
|     | 13        | 32615.02  | 6.18  |          | 13     | N/A      |           |           | 13 | 42536.1   | 8.06  |  |       |  |
|     | 14        | 1630.27   | 0.31  |          | 14     | 29943.72 | 5.67      |           | 14 | 35594.72  | 6.74  |  |       |  |
|     | 502637.34 | 95.20     |       | 600446.8 | 113.72 |          | 873647.96 | 165.46    |    |           |       |  |       |  |

# Snow Preparedness Timeline



# Activation Process

## BATTLE RHYTHM DRY RUN

### Monday October 28th

- Conference Call NWS
- Notification Process
- Email from NWS Graphic to include Graphic by 2:00 PM

### Tuesday October 29

- Conference Call NWS (SnowTeam) 9:00 AM
- Determine to do Brine Operation
- Reach out to coordinating agencies

### Wednesday October 30

- Brine Operation Next 24 Hours OPNS
- Final Determination for full activation
- NWS (AM) 9:00 AM
- CMT call determination
- NWS SNOWTEAM 2:00 PM

### Thursday October 31

- Conference Call
- Brine OPNS Complete
- Operations plans brief out
- NWS AM Snow Team
- Decision to do a District Snow Emergency
- Snow Call CMT 2:00 PM

### Friday November 1

- 0600
- 0700
- 0900
- 1100
- 1300
- 1500
- NWS 9:00 AM CALL

### Goal

To exercise the snow team from notification to exercise  
Develop decision point for CMT Calls.

DAYS MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY

### Weather Goal

6-8" by Friday with expectation of below freezing temp with an additional 2+ inches predicted for Saturday morning



# New Initiatives

## SURVEY 1-2-3

- Constant Monitoring of Surface, Sub-Surface and Air Temperature and Road Conditions
- Survey 1,2,3 will be installed on each mobile device allowing each driver to rate route completion; Zone Captains SVT will approve each route

## Geo Tab

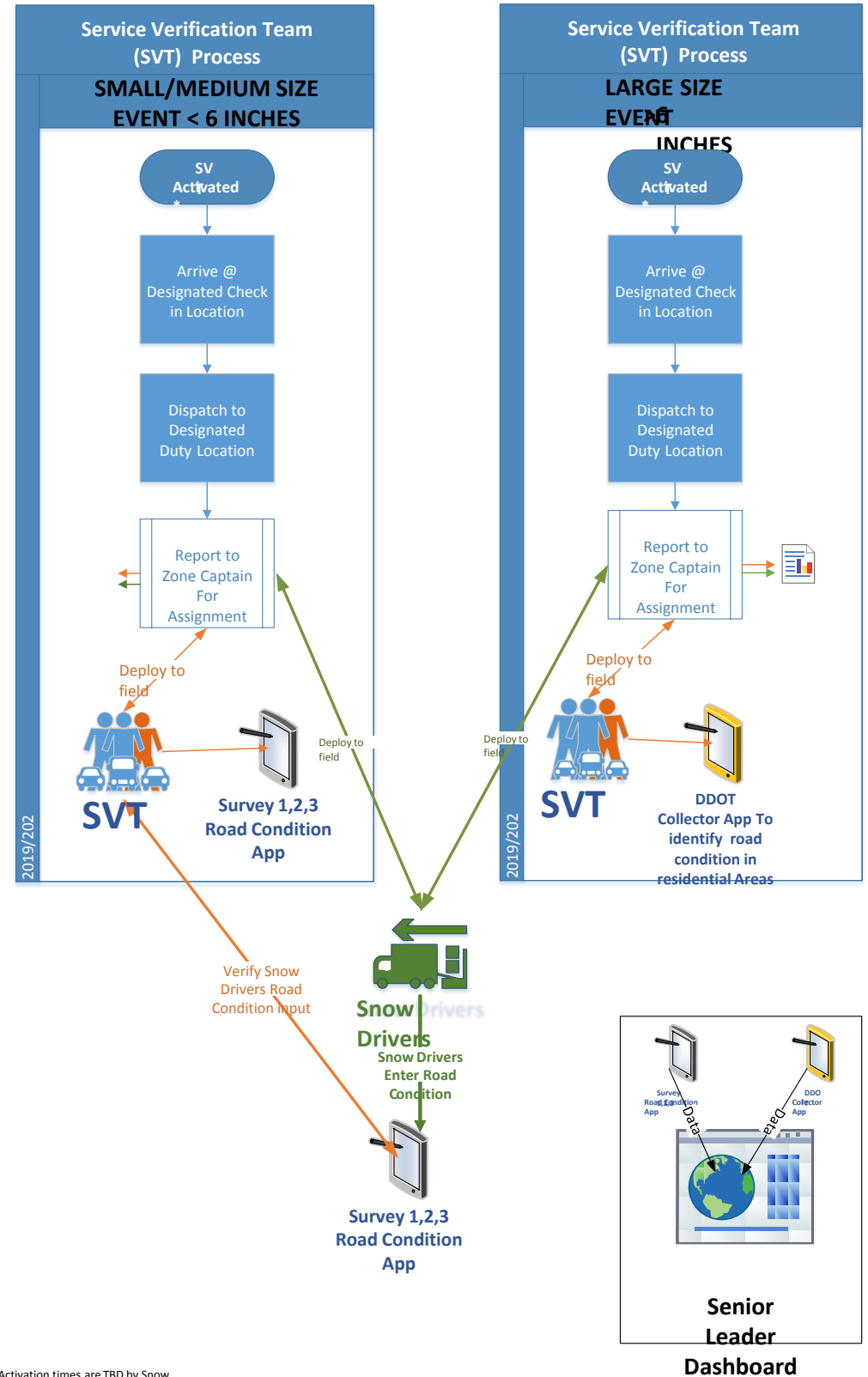
- Different type of devices are being installed in snow plows. This includes District plows as well as rented and contractor-owned vehicles.
- GeoTab will provide real-time location of vehicles and route completion for 400 vehicles
- More reliable connectivity will be achieved by installing the devices through the engine computer, thus protecting the devices from being jostled while the vehicle is being driven. This one upgrade eliminates a major cause of disrupted communication between the plow and the Snow Team.
- The new devices identify each plow by vehicle information number (VIN) and license tag number. They report the plow's location with a time stamp, and identify speed, direction and telemetry.

## New Vehicles

- Updated User Interface in all vehicle AVL system
- Reckless Driving Indicators
- Engine Diagnostic
- Environmental Salt Spreader Standard

## Brine Capacity

# Service Verification Team



Note: \*Activation times are TBD by Snow Coordinator



# Environmental Protection Measures

8Y]W]b[ 'D]chDfc 'YW]k ]h '8C 99]b 'NcbY', / -

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## Environmental Protection Measures

### Salt Reduction Pilot

(in partnership with DOEE, funded via U.S. EPA) **Road Salt Alternatives**

### Salt Storage

### Reuse Briny Runoff

### Snow Disposal Sites

**Stormwater Best Management Practices (BMPs) and Contracted Specialist (via DOEE)**

# DPW/DOEE Deicing Pilot Program

