# SNOW PLAN UPDATE Winter 2020-2021 

Environmental Quality \& Public Works Committee October 06, 2020

## LEXINGTON

## Presentation Overview

- Snow Season Expense Comparison
- Status of Salt
- Route Rankings
- Service Levels
- Changes to the Snow Plan
- COVID-19 Coordination
- Sidewalk Snow Removal
- Staffing
- Projected Schedule for Plan Finalization


## Snow Season Expense Comparison

| Fiscal Year | Expense* | Salt used <br> (Tons) | Salt price <br> (per ton) | Mobilizations <br> Full $/$ <br> Partial** |
| :---: | :---: | :---: | :---: | :---: |
| 2018 | $\$ 478,700$ | 10,306 | $\$ 58.32$ | $12 / 6$ |
| 2019 | $\$ 349,000$ | 4,215 | $\$ 86.44$ | $4 / 13$ |
| 2020 | $\$ 440,876^{* *}$ | 1,745 | $\$ 90.87 / 92.84$ <br> 2021 |  |
| $\$ 68.90 / 70.90$ | $2 / 6$ |  |  |  |

* Does not include personnel
"Typical" winter averages 22 mobilizations per year
** 7,000 tons loaded into W Hickman Barn 2020

Full mobilization = all drivers and all supervisors
Partial mobilization = 1 supervisor and 1 driver per area

## Salt supply

Currently on hand $\rightarrow 5,800$ tons.
Storage Capacity $\rightarrow 8,800$ tons total
(1,800 tons at Old Frankfort Pike\& 4,000 tons at W Hickman) FY 2020 budget $\rightarrow \mathbf{\$ 3 5 0 , 0 0 0}$

FY20 salt cost $\rightarrow \$ 89.44 /$ ton (to Old Frankfort Pike)
$\$ 91.44 /$ ton (to W Hickman)
FY21 budget -> \$0
FY21 salt cost -> \$68.90 KACO reverse auction price; \$2/ton increase for delivery to W Hickman

## Route Rankings

Rank 1 -- primary arteries in and out of the city. (Nicholasville Rd, Man $O^{\prime}$ War Blvd, etc.) 296 lane miles*

Rank 2 -- major connecting streets. (Lane Allen Rd, Loudon Ave, etc.) 192 lane miles*

Rank 3 -- collector routes. (Sandersville Rd, Old Todds Rd, etc.) 356 lane miles*
-- local residential streets, which allow residents access to the main roads (Dunkirk Dr, Glendover Rd, etc.) 330 lane miles*

[^0]

## Service Levels

Level $1 \boldsymbol{\rightarrow}$ 1" to $\mathbf{4 "}$ of accumulation

- Operate under current plan (Rank 1-4 streets)

Level $2 \rightarrow 5$ " to $\mathbf{8 "}$ of accumulation

- In addition to the Rank 1-4 routes we will add unranked residential collector streets that connect to collector streets

Level $3 \rightarrow 8$ " of accumulation and above

- In addition to the rank 1-4 streets, we will attempt to plow as many streets as possible


## Changes for 2020-21 Snow Season

- Minor edits to reflect connectivity concerns, and school and public safety access.
- Increase pre-wetting of salt to reduce bounce and increase effectiveness
- Areas 3, 4, 5, 6, 7-F and 9 will report to Brannon Road barn
- In 2019/2020 Added a $4^{\text {th }}$ ranking for sidewalks. These will consist of the lower density facilities on the perimeter of Parks and other city owned property in low traffic residential areas.
- Rank 3 and 4 sidewalks may not be plowed in a service level 1 or 2 event.
- Add COVID-19 rapid coordination efforts


## COVID-19 Coordination

- Mutual COVID-19 assistance agreement with KYTC District \#7
- Updated emergency contact information across divisions and stakeholders for rapid internal communication.
- Consensus across divisions for mutual aid and support in the event of a positive test.
- Commissioner will serve as coordinator of rapid staff reallocation as needed.
- For 2020/2021, streets providing emergency access to certain critical facilities will have a Rank 1E ranking above Rank 1 should staffing become too limited to execute the traditional plan. Plan in development with UK and DEM.
- Continued emphasis on social distancing and disinfection of all surfaces among staff to limit the spread in the event of a positive test.


## 2020-21 Snow Plan

## Goals

- Complete Roadway Snow Plan (Rank 1 - 4 routes) within 36 hours of snow end.
- Complete Sidewalk Snow Plan (Ranked 1-4 routes) within 96 hours of snow end.


## Snow Plow Tracker

## https://maps.lexingtonky.gov/snowresponse



## Legend

Tracking Test
Vehicle Location
(1)

Vehicle Trail-1 minute
-
Vehicle Trail - 2 minutes
-
Vehicle Trail - 3 minutes
-
Vehicle Trail - 4 minutes
-
Vehicle Trail - 5 minutes

Ranked Snow Routes
Snow Ranking - 72k
— Rank 1
$=$ Rank 2

- Rank 3
- Rank 4
-- Parks Snow Removal
Rural Snow Remova
= State Snow Removal


## Sidewalk Snow Removal

- Primary execution by combined forces of Environmental Services, Parks, and Facilities.
- 81 miles of sidewalks serviced with full execution of the plan.



## Sidewalk Snow Removal



- Sidewalk clearing begins after snow stops. Must coordinate timing with road crews to minimize re-coverage after clearance.
- When possible we may begin clearing snow downtown before snow ends and revisit during or after the event as well


## Sidewalk Snow Removal

| Rank examples | Length |
| :---: | :---: |
| Rank 1 <br> - Overpasses and underpasses <br> - City-owned facilities <br> - high density city-maintained sidewalks/crosswalks <br> - Service Open Parks Facilities | 12.0 Sidewalk Miles |
| Rank 2 <br> - Designated city-maintained sidewalks on arterials and collectors in high density areas (i.e. Man O' War, Wellington Way, Wilson Downing, etc.) <br> - Service Closed Parks Facilities \& near Bus stops <br> - School routes (school closed) | 36.2 Sidewalk Miles |
| Rank 3 <br> - Perimeter sidewalks of Parks - High density areas | 15.9 Sidewalk Miles |
| Rank 4 <br> - City-owned parcels in lower density residential areas (WQ lots, greenways); <br> - Perimeter sidewalks of Parks - low density areas | 16.9 Sidewalk Miles |

## Staffing

Streets and Roads -- authorized strength: 67 CDL positions.

Water Quality - authorized strength: 29 CDL positions. Not all available to drive at the same time in case of breaks.

Environmental Services -- 12 to 14 positions operating equipment and/or shovels, including two backup CDL drivers.

Other - backup drivers from Water Quality, Parks, Waste Management and Environmental Services (if needed).

## Plan Finalization Schedule

EQ\&PW Committee Update - October 06, 2020

Stakeholder Meeting - September 16, 2020
(LexTran, FCPS, state, etc.)

Post to Webpage - October 30, 2020

## QUESTIONS / COMMENTS?




[^0]:    *lane miles:
    1 mile of a 2 -lane road $=2$ lane-miles

