# SNOW PLAN UPDATE

Winter 2020-2021

Environmental Quality & Public Works Committee October 06, 2020





#### **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 (Tons)	Salt price ( per ton)	Mobilizations Full / Partial**
2018	\$478,700	10,306	\$58.32	12 / 6
2019 2020 2021	\$349,000 \$440,876**	4,215 1,745	\$86.44 \$90.87/92.84 \$68.90/70.90	4 / 13 2/6

<sup>\*</sup> Does not include personnel

Full mobilization = all drivers and all supervisors

Partial mobilization = 1 supervisor and 1 driver per area

<sup>&</sup>quot;Typical" winter averages 22 mobilizations per year

<sup>\*\* 7,000</sup> tons loaded into W Hickman Barn 2020



## Salt supply

Currently on hand  $\rightarrow$  5,800 tons.

Storage Capacity → 8,800 tons total

(1,800 tons at Old Frankfort Pike& 4,000 tons at W Hickman)

FY 2020 budget → \$350,000

FY20 salt cost→ \$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' War Blvd, etc.*) 296 lane miles\*

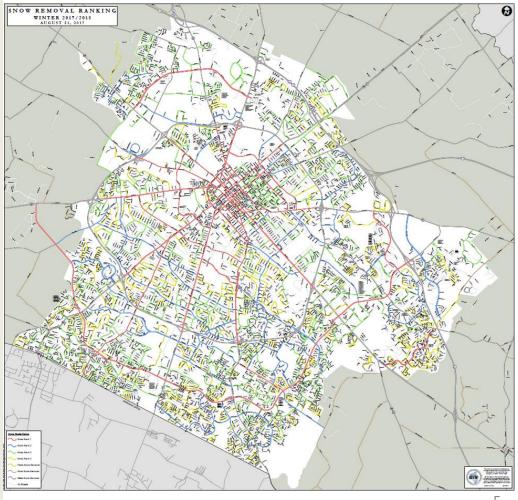
Rank 2 -- major connecting streets. (Lane Allen Rd, Loudon Ave, etc.) 192 lane miles\*

Rank 3 -- collector routes.

(Sandersville Rd, Old Todds Rd, etc.)
356 lane miles\*

Rank 4 -- local residential streets, which allow residents access to the main roads (*Dunkirk Dr, Glendover Rd, etc.*) 330 lane miles\*

\*lane miles: 1 mile of a 2-lane road = 2 lane-miles





#### **Service Levels**

#### Level 1 $\rightarrow$ 1" to 4" of accumulation

Operate under current plan (Rank 1 - 4 streets)

#### Level 2 → 5" to 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 → 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<sup>th</sup> 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**

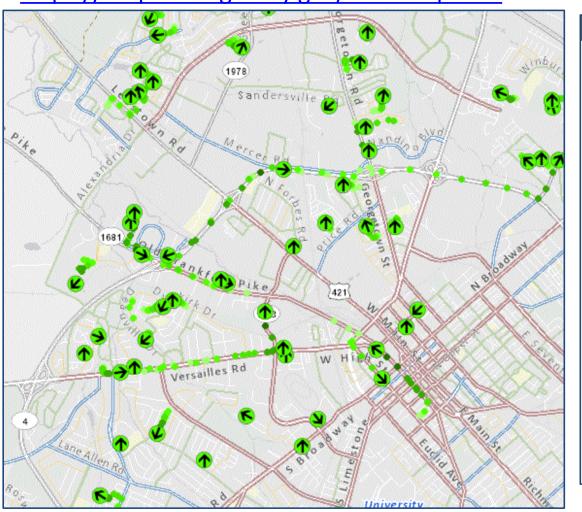
#### <u>Goals</u>

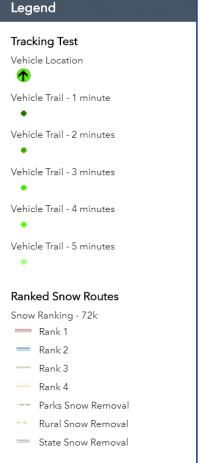
- Complete Roadway Snow Plan (Rank 1 4 routes) within 36 hours of snow end.
- Complete Sidewalk Snow Plan (Ranked 1 4 routes) within 96 hours of snow end.



#### **Snow Plow Tracker**

https://maps.lexingtonky.gov/snowresponse







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

