

# SNOW PLAN UPDATE

*Winter 2019-2020*

*Environmental Quality & Public Works Committee  
October 22, 2019*



**LEXINGTON**



# Presentation Overview

- Snow Season Expense Comparison
- Status of Salt
- Route Rankings
- Service Levels
- Changes to the Snow Plan
- 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	\$349,000	4,215	\$86.44	4 / 13

*\* Does not include personnel*

*\*\* "Typical" winter averages 22 mobilizations per year*

*Full mobilization = all drivers and all supervisors*

*Partial mobilization = 1 supervisor and 1 driver per area*



# Salt supply

**Currently on hand → 2,800 tons + 2,000 tons will be loaded into the Brannon Road facility upon completion**

**Storage Capacity → 8,800 tons total**

**1,800 tons at Old Frankfort Pike & 7,000 tons at Brannon Road**

**FY 2020 budget → \$350,000**

**FY20 salt cost → \$89.44/ ton (to Old Frankfort Pike)**

**\$91.44/ ton (to Brannon Road)**

# Route Rankings

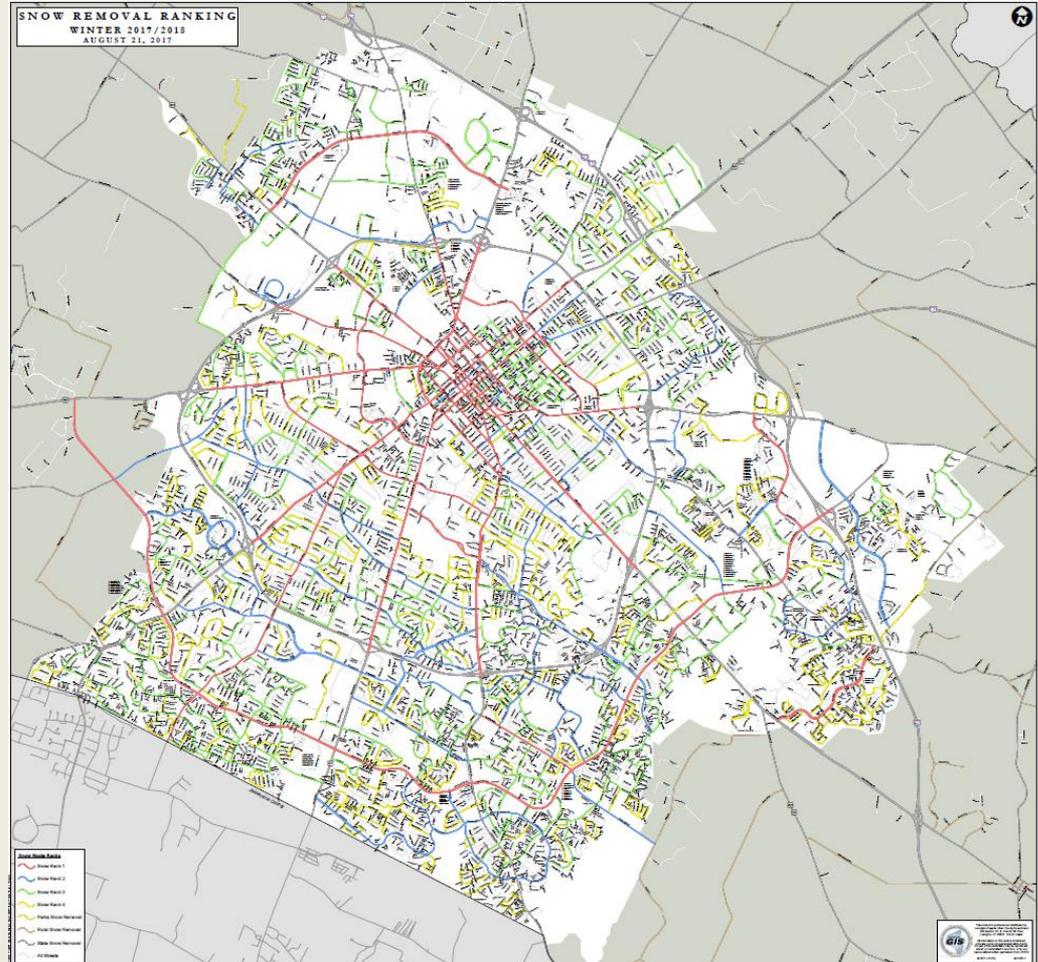
**Rank 1** -- primary arteries in and out of the city. (*Nicholasville Rd, Man O' War Blvd, etc.*) 296 lane miles\*

**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 → 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 2019-20 Snow Season

- Minor edits to reflect connectivity concerns, and school and public safety access.
- Increase prewetting of salt to reduce bounce and increase effectiveness
- Areas 3, 4, 5, 6, 7-F and 9 will report to Brannon Road barn
- More widespread sharing of the snow plow tracker website information
- 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.



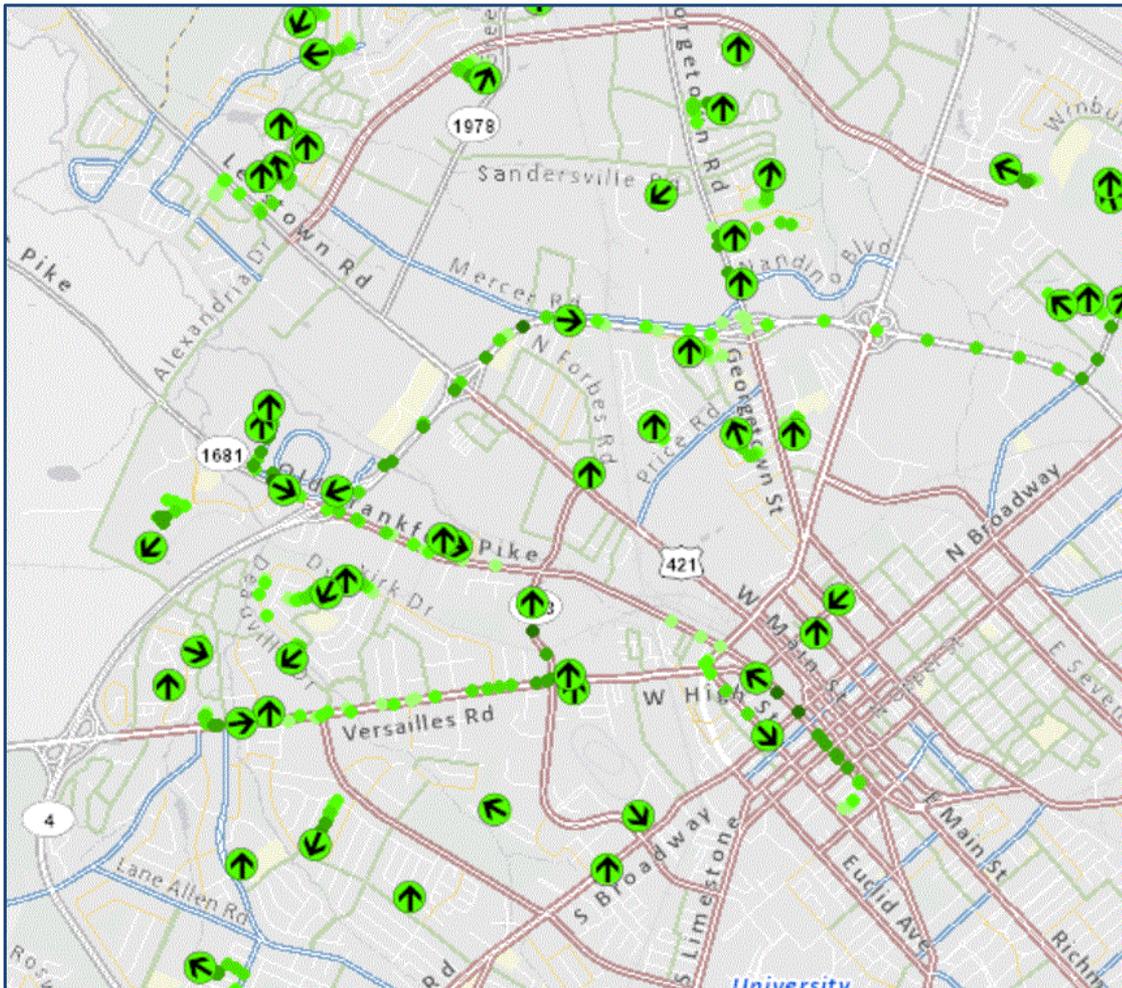
# 2019-20 Snow Plan

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

**Ranked Snow Routes**

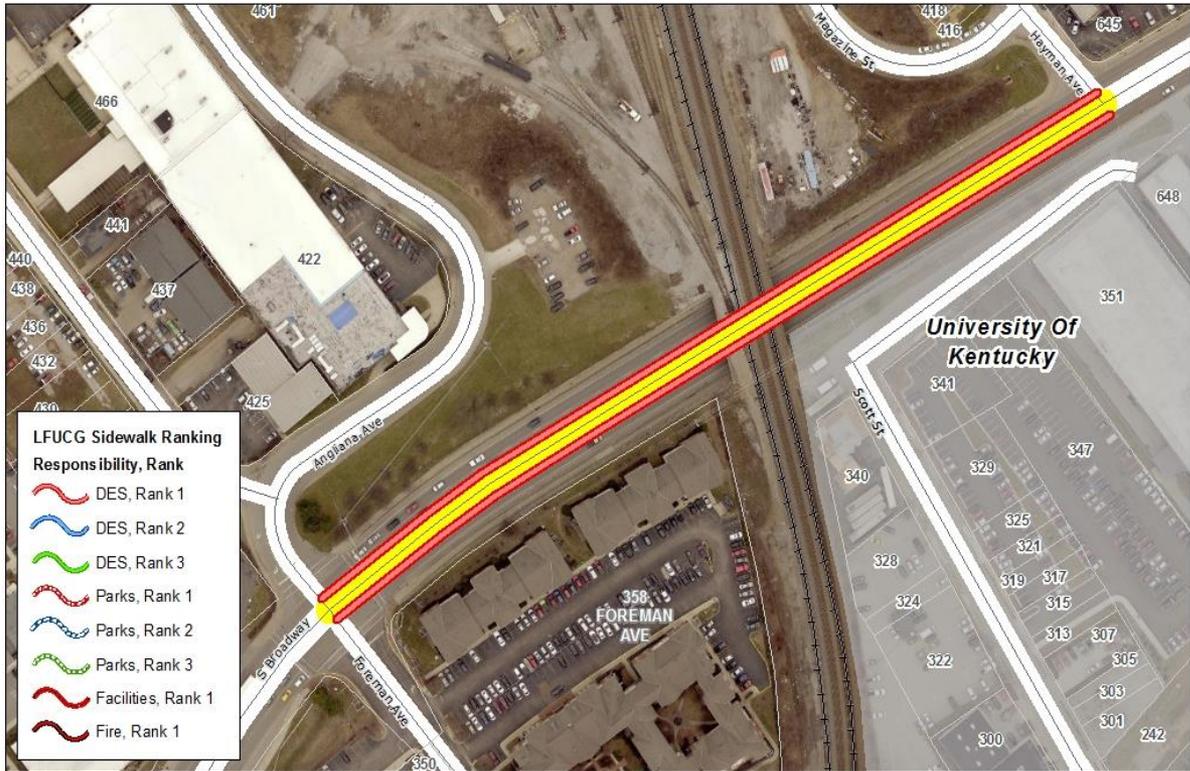
- Snow Ranking - 72k
  - Rank 1 
  - Rank 2 
  - Rank 3 
  - Rank 4 
- Parks Snow Removal 
- Rural Snow Removal 
- State Snow Removal 

# 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 Plan  
 Lexington-Fayette Urban County Government  
 Lexington, Kentucky

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Date: 12/21/2016

# Sidewalk Snow Removal

Rank examples	Length
<p><b>Rank 1</b></p> <ul style="list-style-type: none"> <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>	<p>12.0 Sidewalk Miles</p>
<p><b>Rank 2</b></p> <ul style="list-style-type: none"> <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>	<p>36.2 Sidewalk Miles</p>
<p><b>Rank 3</b></p> <ul style="list-style-type: none"> <li>• Perimeter sidewalks of Parks - High density areas</li> </ul>	<p>15.9 Sidewalk Miles</p>
<p><b>Rank 4</b></p> <ul style="list-style-type: none"> <li>• City-owned parcels in lower density residential areas (WQ lots, greenways);</li> <li>• Perimeter sidewalks of Parks - low density areas</li> </ul>	<p>16.9 Sidewalk Miles</p>

# 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 22, 2019**

**Stakeholder Meeting – September 16, 2019**

(LexTran, FCPS, state, etc.)

**Post to Webpage – October 30, 2019**

# QUESTIONS / COMMENTS?

