

Yours Truly

2017-2018 SNOW AND ICE PROGRAM

City Council Work Session

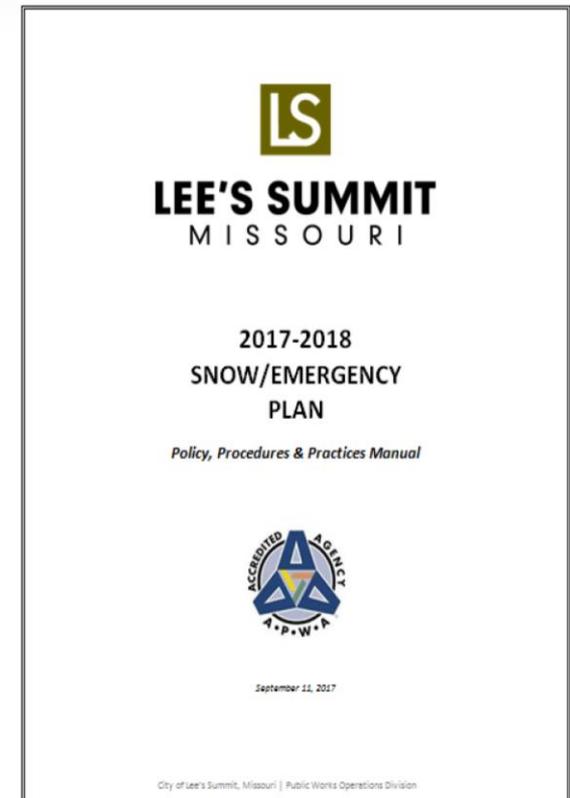
November 9, 2017

Outline

- Snow and Ice Plan Overview
- Routing Philosophy
- Residential Streets
- Communication
- New Equipment
- New Technology
- Questions

Snow Plan

- The City's Snow Plan outlines steps for the completion of storm response within **32 ½ - 48 hours after precipitation has ended** provided that required levels of equipment and personnel are available.



Snow Plan

- Level 1 (pre-treat)
- Level 2 (<1" of snow) 24 hrs
- Level 3 (>1" – 6" of snow) 32.5 hrs
(>6" – 10" of snow) 40 hrs
- Level 4 (>10" or more snow) 48 hrs
- Level 5 (sustained winds >30 mph) 48 hrs

Snow Plan

- Level 1 44 snow plow drivers
- Level 2 44 snow plow drivers
- Level 3 58 snow plow drivers
- Level 4 70 snow plow drivers
- Level 5 70 snow plow drivers

NOTE: 25 dedicated drivers from Operations. We rely on paid volunteers from other departments to fill snow plows.

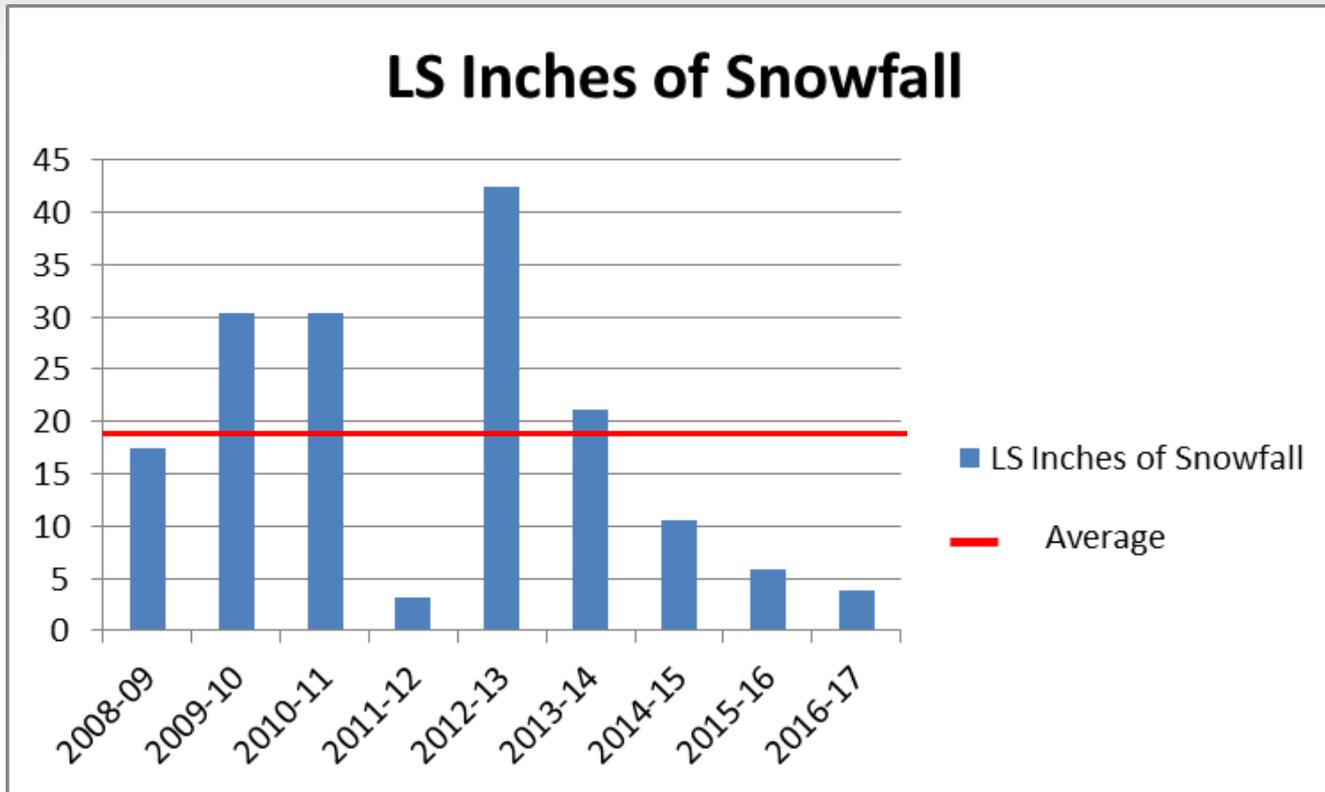
Snow Plan

Additional drivers come from:

- Water
- Engineering
- Development Services
- Police
- Admin
- HR



Snow Plan



Snow Plan

- Common Complaints
 - The city never plows my street
 - The driver did not do a good job
 - The plow covered my driveway/sidewalk/hydrant
 - The city is wasting money pre-treating
 - More expensive neighborhoods get plowed first
 - My street has more houses – make it a secondary route
 - Insert a city here _____ does a better job

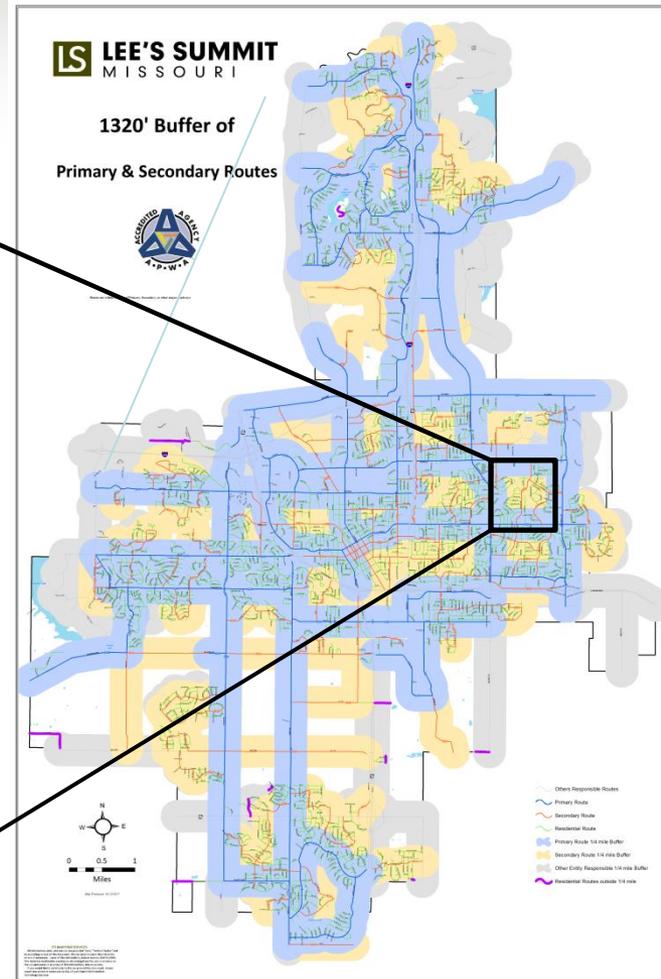
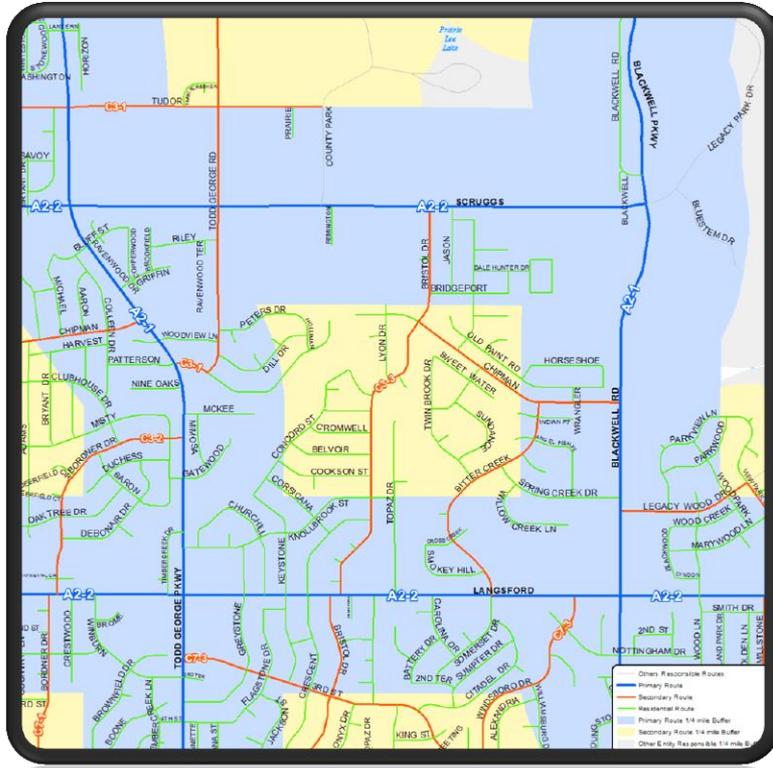
Routing Philosophy

- Primary Routes – Four hours to complete
 - Major roads
- Secondary Routes – Eight hours to complete
 - Feeder roads to and from subdivisions
- Residential Routes – Twenty hours to complete
 - All other roads

Routing Philosophy

- Primary streets are generally completed within four hours after snow stops.
- Secondary streets are generally completed within 12 hours after snow stops.
- It is our goal to have access to most properties within $\frac{1}{4}$ mile of a primary or secondary street within 12 hours.

Routing Philosophy



Routing Philosophy

RT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
R1	Blue	White	White	Yellow	White	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
R2	Blue	Grey	Grey	Yellow	Grey	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
R3	Blue	White	White	White	White	White	Yellow	White	White	White	White	White	White	White	White	White	White
R4	Blue	Grey	Grey	Yellow	Grey	Grey	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
R5	Blue	White	White	White	White	White	White	White	Yellow	White							
R6	Blue	Grey	Grey	Grey	Grey	Yellow	Grey	Grey	Grey	Black							
R7	Blue	White	White	White	White	White	White	White	Yellow	White							
R8	Blue	Grey	Grey	Grey	Grey	Yellow	Grey	Grey	Grey	Grey	Grey	Black	Black	Black	Black	Black	Black
R9	Blue	White	White	White	White	White	Yellow	White	White	White	White	White	White	White	White	White	White

Residential Streets

- LS has 1057 lane miles to plow and treat every snow storm including 1145 cul-de-sacs
- Lakewood (LPOA) 33 Lane Miles
- During storms streets are plowed multiple times. Some storms require plowing and treating over 3,000 lane miles.

Residential Streets



Residential Streets



Communication

- LSsnow.net
 - Snow Plan
- Training
- Dry Run
- Event Communication
 - Media Notifications
 - LSsnow.net
 - Facebook
 - Twitter



Communication

- Snow Desk phone message will set expectations
 - What to do in an emergency situation
 - When to call for a missed street
 - Leave a message for yard or mailbox damage
- Voicemail will be checked for messages that require action from Public Works

New Equipment



Wing Plows



New Technology

- Route Optimization (FY19)



New Technology

- Turn by turn routing (FY19)



APWA

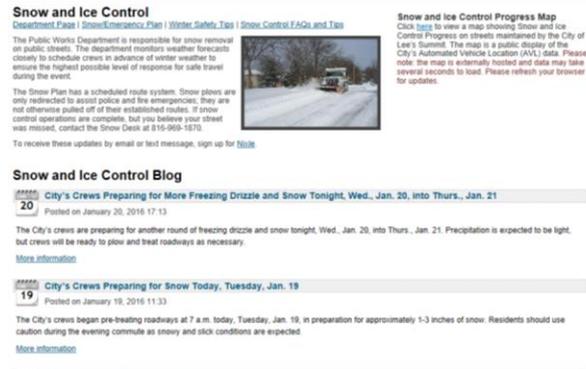
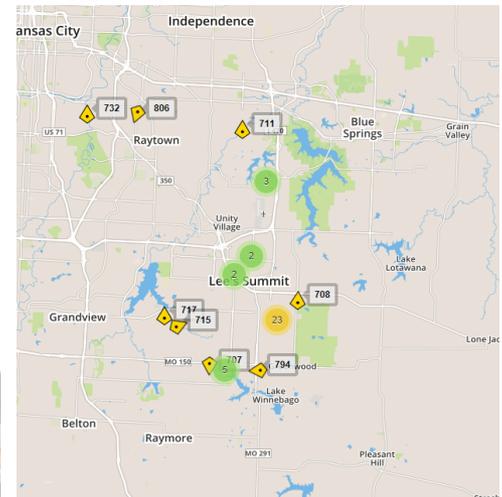
- Attend Snow Conference
 - Latest technologies
 - Materials and Methods
 - Education
- Participate in Metro training
- LS results in Rodeo

Questions



Existing Technology

- Automated Vehicle Locating (AVL)
- Snow Tracker
- LSsnow.net
- Public Facing Website
 - LSsnow.net



Pre-Treatment



Communication

- Media updates are sent out before each storm
- The City uses social media to push updates to citizens
- LSsnow.net the City's snow page has the latest information

New Equipment



New Equipment



Accuweather



Farmers Almanac

