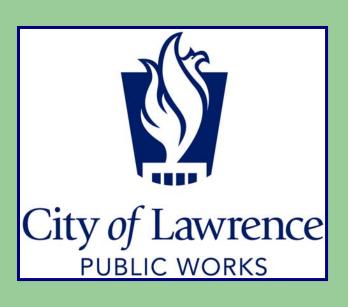
2010/2011 Snow Removal & Ice Control Preparedness



Executive Summary

11/23/2010

Presented by

Mark Thiel

Assistant Director Public Works

Typical Numbers for Lawrence

- Average Snowfall per year = 21"
- Average number of snow events = 7
- Record monthly snowfall = 21.9" in January 1985
- Typical snow months December thru March

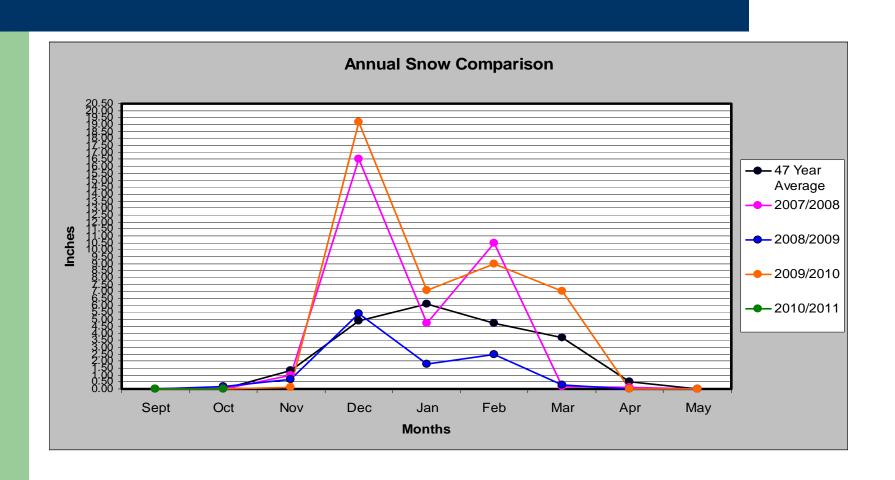




Comparison Last Two Seasons

	2008/2009	2009/2010
Snowfall	10.6"	42.45"
 Number of events 	9	12
 Salt consumption 	2,661 tons	4,907 tons
 Sand consumption 	2,437 tons	3,714 tons
Man-hours	\$133,792	\$231,076
Equipment	\$68,631	\$165,161
Materials	<u>\$97,640</u>	<u>\$304,075</u>
 Total cost 	\$300,063	\$700,312

Yearly Comparison



Keeping a Prospective

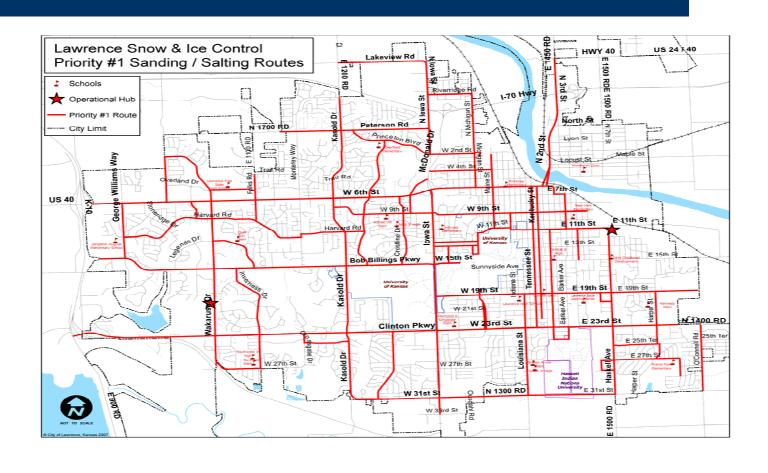


OK, Show of hands... Who's tired of snow?

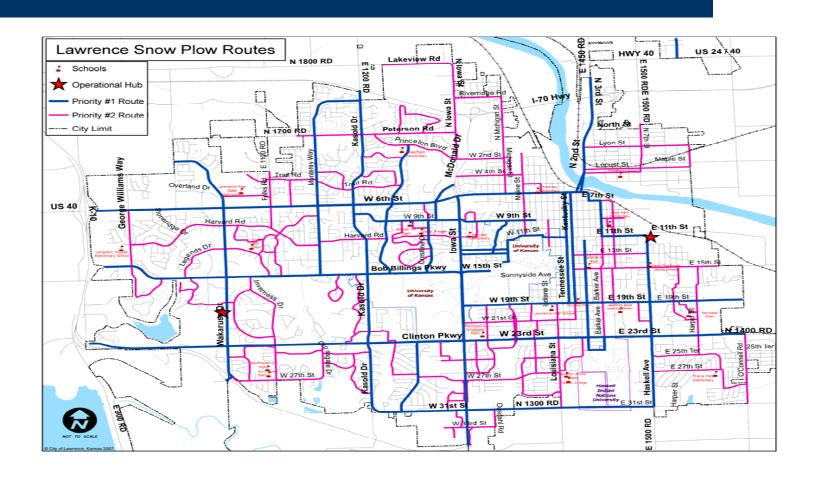
Snow / Ice Control Plan

- The city is divided into 5 areas
 - Using Iowa St. & Bob Billings Pkwy. as the dividing line
 - There are 16 specific routes
 - Routes follow priority order from most traveled to least traveled
 - Criteria
 - Traffic counts, bus routes, schools, major employment centers, and hospitals.
 - Plowing begins at a snow depth of 3"
 - Treatment begins prior to event

Snow & Ice Control Sanding / Salting Routes



Snow & Ice Control Plowing Routes



Snow / Ice Control Plan

- Crews are divided equally and assigned one of two shifts
 - They generally work 12 hours shifts
 - Progress until snow and ice are cleared
- Two operational hubs are utilized for staging
 - 11th & Haskell
 - Wakarusa Drive

Materials





- We will start this season
 - 4,000 tons of salt
 - 1,000 tons of sand
 - 2,500 tons of salt sand mix
 - 1,000 tons of salt on hold order



Equipment

- 4 Tandem axle dump trucks
- 7 Single axle dump trucks
- 9 − 1 ton 4x4 trucks
- 1 Wheel loader
- 2 Motor graders
- 3 Back-hoe
- 2 Farm tractors





Personnel

- 39 equipment operators
- 4 supervisors
- Division manger
- Administrative support
- Other
 - Communications Manager
 - Asst. Public Works Dir.
 - Police & Fire
 - Parks & Recreation



Public Awareness

- Web site
 - www.lawrenceks.org
 - Links to safety and weather
- Media
 - Press releases
 - "Snow plows hit the streets Tuesday"
 - Live interviews before and during events
- Education
 - Flyers in water bills

Annual Snow Training Day The First Tuesday In November Each Year

 The annual practice provides an opportunity to review the plan, incorporate new streets, give equipment one more check and train employees





Snow Day Photos





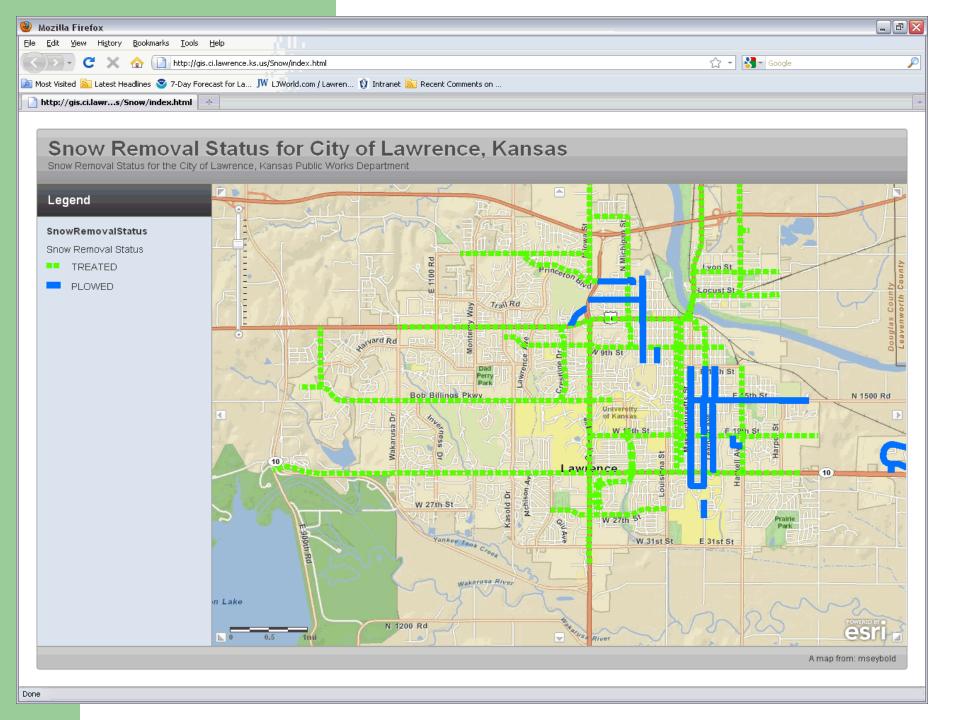




What's New

Additional Support Staff

- Additional Public Works staff assigned to snow operations
- Phase 2 and Phase 3 Snow Operations
 - Phase 2 will incorporate additional support from other city departments
 - Phase 3 will incorporate additional support through vendors / contractors
 - Goal of being operational by December 1st 2010
- GIS Progress Tracking Program
 - Operational test mode (intranet)



Summary

- Plan is updated
- Equipment is ready
- Materials are well supplied
- Staff have been trained
- Press releases are out
- Web site is updated
- We are ready to tackle what ever mother nature throws at us

Questions?

