



CITY OF PRINCE GEORGE

Public Works Department
Roads & Fleet Services

Snow & Ice Control Operations			
City & Rental Equipment Levels Per Shift			
Roads Division			
City Operations Staff	Day Shift 7:00 am - 3:30 pm	Afternoon Shift 2:30 pm - 11:00 pm	Night Shift 10:30 pm - 7:00 am
Manager	1		
Supervisor	1		
Foremen	3		2
City Operations Staff Shift Totals	5	0	2
City Equipment Levels Per Shift			
City Equipment	Day Shift 7:00 am - 3:30 pm	Afternoon Shift 2:30 pm - 11:00 pm	Night Shift 10:30 pm - 7:00 am
Blower			1
Graders	7		7
Loaders	5		5
Sidewalk Machines	3	3	3
Sander Plow Trucks Monday - Saturday	8	2	8
Sander Plow Trucks Tuesday - Saturday Afternoons		2	
Arrow Board Crew			2
City Equipment/ Shift Totals	23	7	26
Rental Equipment Levels Per Shift			
Rental Equipment	Day Shift 7:00 am - 3:30 pm	Afternoon Shift 2:30 pm - 11:00 pm	Night Shift 10:30 pm - 7:00 am
Graders	5		5
Loaders	12		13
Dump Trucks			16
Bulldozers (snow dump)			2
Rental Equipment Shift Totals	17	0	36

City of Prince George Statistics

Length of Paved Roads	636 km
Length of Gravel Roads	109 km
Length of Lanes	58 km
Length of Sidewalks	188 km
City Bridges / Structures	14

Snow and Ice Control – Materials Used

Year	Sand c/w 2% Salt (tonnes)	Fracture c/w 2% Salt (tonnes)	Salt (tonnes)	Brine (litres)	Anti-Icing Pre-wet (litres)	Sand	Snow Hauled (cu metres)
2006	11,673	2,157	2,712		281,259		390,542
2007	10,877	2,813	1,976		230,131		364,970
2008	8,899	2,126	2,092		280,340		382,888
2009	10,442	2,689	2,304		153,618		453,016
2010	5,332	2,159	742		63,257		158,140
2011	6,218	7,650	2,234		121,549		594,340
2012		8,902	2,195		131,278		309,150
2013	1,468	2,930	2,198		74,614		411,260
2014	2,267	6,598	1,973	1,600	42,105		440,720
2015	6,060	3,156	1,563	6,500	28,709		437,080
2016	5,201	2,101	1,214	0	14,711		122,720
2017	7,325	2,706	1,408	300,043	99,418		256,620

SNOWFALL (cm) Average Annual Snowfall is 195.2 cm

Year	January	February	March	April	October	November	December	Total
2006	51.2	25.8	21.4	28.4	14.4	59.4	58.8	259.4
2007	56.0	31.2	28.0	-	-	59.2	56.4	230.8
2008	38.9	33.0	40.4	6.8	-	33.2	58.7	211.0
2009	67.8	44.7	35.5	6.8	12.0	28.6	49.8	245.2
2010	29.4	6.4	-	-	-	14.6	12.8	63.2
2011	88.5	75.0	14.4	2.6	-	42.8	36.8	260.1
2012	32.6	32.2	23.3	2.0	25.0	18.2	63.7	199.0
2013	50.1	30.7	42.4	13.2	-	29.9	90.0	256.3
2014	31.2	34.4	22.1	15.6	-	15.6	35.5	138.8
2015*	63.4	25.7	4.9	-	4.0	6.4	50.2	154.6
2016*	36.6	25.6	3.8	2.0	17.8	13.4	29.8	129.0
2017*	15.6	52.0	28.6	-	2.0	27.0	21.0	146.2

*Incomplete weather data

SNOW AND ICE EXPENSES		
	Budget	Actual
Year	(Million)	(Million)
2006	\$4.169	\$5.302
2007	\$4.023	\$4.415
2008	\$4.071	\$5.540
2009	\$4.254	\$6.252
2010	\$4.800	\$3.431
2011	\$4.842	\$6.740
2012	\$4.842	\$5.299
2013	\$5.042	\$5.846
2014	\$5.800	\$6.450
2015	\$6.300	\$7.640
2016	\$7.837	\$5.307
2017	\$7.000	\$7.116