



Ministry of Municipal Affairs and Housing

Association of Municipalities of Ontario

ONTARIO CENTER FOR MUNICIPAL BEST PRACTICES

Follow up to 2000 MPMP for Winter Control

For assistance in completing the survey, please contact:

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Municipality _____

MAH code _____

MUN ID _____

Name of Contact re Form _____

Department _____

Telephone number _____

e-mail address _____

1.0 SYSTEM INVENTORY

1.1 Physical Characteristics

hectares in service area (in 2000)

Please use estimates to complete the following section.

Alternatively, sections 1.2, 1.3 and 1.4 may be completed instead of section 1.1

Urban / Rural split of centerline kilometres

column 1	column 2	column 3
% urban	% rural	% total
		100

Arterial + Collector / Local split of centre lane kilometres

% arterial + collector	% local	% total
		100

Estimate of Daily system traffic (Sum [all section lengths*AADT])

Proceed to section 2.0 if section 1.1 has been completed.

Otherwise, complete sections 1.2, 1.3, 1.4 below:

1.2 Centerline System Kilometres by Road Class

Urban Highways

by class

column 1	
	km Class 1
	km Class 2
	km Class 3
	km Class 4
	km Class 5
	km Class 6

by function

column 1	
	arterial
	collector, commercial - industrial
	collector, residential
	local, commercial - industrial
	local, residential

Rural Highways

by class

column 2	
	km Class 1
	km Class 2
	km Class 3
	km Class 4
	km Class 5
	km Class 6

by function

column 2	
	arterial
	col., com. - ind
	collector, residential
	local, comm. - ind.
	local, residential

1.3 Equivalent Lane Kilometres by Road Class

Equivalent lane km's are calculated based on a lane width of 3.65m
 Therefore 1 equivalent lane km = (length of lane x lane width) / 3.65
 See definitions for determining what is to be included in the calculation

Urban Highways

column 1	
	Lane km Class 1
	Lane km Class 2
	Lane km Class 3
	Lane km Class 4
	Lane km Class 5
	Lane km Class 6

Rural Highways

column 2	
	Lane km Class 1
	Lane km Class 2
	Lane km Class 3
	Lane km Class 4
	Lane km Class 5
	Lane km Class 6

1.4 Traffic Volume

Average daily traffic volume per road classification - actual or estimated

Urban Highways

column 1	
	Class 1
	Class 2
	Class 3
	Class 4
	Class 5
	Class 6

Rural Highways

column 2	
	Class 1
	Class 2
	Class 3
	Class 4
	Class 5
	Class 6

2.0 WINTER SERVICE STANDARDS

Urban Roads

Answer Yes or No to all questions except achievement

	class1	class 2	class 3	class 4	class 5	class 6
ploughs sent out < or = 5cm accumulation						
ploughs sent out >5cm accumulation						
standard, bare pavement						
standard, center/track bare						
standard, snow covered						
standard, snow packed						
What is the average achievement (in hours)						

Rural Roads

Answer Yes or No to all questions except achievement

	class1	class 2	class 3	class 4	class 5	class 6
ploughs sent out < or = 5cm accumulation						
ploughs sent out >5cm accumulation						
standard, bare pavement						
standard, center/track bare						
standard, snow covered						
standard, snow packed						
What was the average achievement (in hours)						

In 2000

	column 1
Application rate for mixed sand t/km	
Application rate for pure salt t/km	
How many tonnes of salt were used ?	
How many tonnes of sand were used?	
If mixed, what was the % of salt?	

Did you pre-wet?

If yes, what do you do?

Did you pre-treat?

If yes, what do you do?

	column 1	column 2
	#	Avg. Route Length (Lane km)
# of winter events in 2000		
Total # of winter event response hours		
# of own combination units		
# of own plough units		
# of own sander units		
# of contract combination units		
# of contract plough units		
# of contract sander units		
Did you use a wing person in ploughs?	Y or N	

3.0 WINTER OPERATION COSTS

	column 1	
Did your municipality include departmental overheads in winter costs?	Y or N	
If yes, what is the % added to direct costs?		%
Did your municipality include HR, finance, overheads in winter costs?	Y or N	
If yes, what is the % added to direct costs?		%
Did your municipality include full depreciation in equipment rates?	Y or N	

If partial depreciation or full reliance on capital program, please describe:

	column 1	
Is the cost of material storage facilities a component of winter maintenance costs?	Y or N	
Is the cost of equipment repair facilities a component of equipment rates?	Y or N	
What was the % of winter control performed by contract?		%
Provide target date for 100% preparation for winter (start of standby)		
Provide target date for removal of winter equipment (end of standby)		
Please calculate length of winter season (days)		
Do you have a single shift operation?	Y or N	
Hours of winter patrol/week outside of "regular" hours?		

	column 1	column 2
	Rate \$	Standby rate \$
What was your 2000 equipment rate for a snow plough, including operator?		
What was your 2000 equipment rate for a sander, including operator?		
What was your 2000 equipment rate for a combination unit, including operator?		
What was the rate you paid in 2000 for contract snow plough equipment?		
What was the rate you paid in 2000 for contract sanders?		
What was the rate you paid in 2000 for contract combination units?		
In 2000, did you pay contractors a standby rate?	Y or N	

If yes, enter rates in column 2

