Shape Your Reality

EFFICIENTLY
CURRENT REALITY
CURRENT REALITY

Less Everything!
But, More to Do...
OPTION

Do MORE!

OPTION

Do it More EFFICIENTLY!
Do it More EFFICIENTLY!
Winter Web App
• Support Public Works
• EFFICIENT tools
• Super simple
• Always available
Over 200 Municipalities
Plan Ahead
It helps to plan ahead.
It can **REALLY** help to **plan ahead.**
Winter Maintenance Plan
Most **Crucial** Winter Document
Game Plan

Living Document
Typically a **Time-Consuming** Task
Can Take **Months** to Create
Typical Process
Someone asking for it?

Yes

Other pressing matters?

No

Have we ever had one?

Yes

Do our neighbour have theirs?

No

Original writer still there?

No

This will have to wait...

Let’s update!

Yes

Done!

Write one!
“A good winter maintenance plan eliminates the possibility of forgetting the specifics of an event [which can] help provide a robust defence....”

Barb Szychta

(VP, Risk Management Services Frank Cowan Insurance)
Our Goal
Here is what we did!
Objectives
Policy Statement
Level of Service
Winter Season
Preps in Advance
4-Weeks Before
2-Weeks Before
Start of Winter
Application Rates
Equipment/Fleet
Yard Facilities
Snow Removal

Plow Routes
Salt Vulnerable Areas
Weather Monitoring
Call-Out Processes
Winter Patrols
Overall Operations
Staffing
Work Hours
Road Closures
Decommissioning
Improvements
And lots more!
Super Simple, fill in the _____ solution.
WWA Solution
Login ➔ Answer Questions ➔ PDF

(Update as needed)

Next Season
Login → Answer Questions → PDF
One Week!
You are already signed in.
Current Winter Document

Season: 2017-2018

Step 1: Edit the content.
Step 2: Download PDF.
Step 3: Finalize and start next winter's document

PREVIOUS WINTER DOCUMENTS

2015-2016 Winter Plan
2016-2017 Winter Plan
## Module A: Contact Info

Please enter the below information about your organization

<table>
<thead>
<tr>
<th>Municipality Name</th>
<th>Town of Good Roads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal</td>
<td></td>
</tr>
<tr>
<td>Town</td>
<td></td>
</tr>
<tr>
<td>Estimated Population</td>
<td>260000</td>
</tr>
<tr>
<td>Census Year</td>
<td>2015</td>
</tr>
<tr>
<td>Total Area</td>
<td>1300.0</td>
</tr>
<tr>
<td>Square Kilometres</td>
<td></td>
</tr>
<tr>
<td>Single</td>
<td></td>
</tr>
</tbody>
</table>
Module A: Contact Info

Organization's Mailing address

Street Address
1525 Cornwall Road

Building Name/Unit/End (if applicable)
Unit 22

City
Oakville

Canada

Province/Zip Code
Ontario L6J0B2

Is the municipality's physical address different than the mailing address?

- Yes
- No
Contact Info entries saved successfully

OKAY
Simple inputs

Check Boxes

Text Boxes

Yes/No

Drop-down Lists

Paragraphs (rarely)
No GIS Experience!
Current Winter Document

Season: 2017-2018

Step 1: Edit the content.
Step 2: Download
Step 3: Finalize and start this winter's document

PREVIOUS WINTER DOCUMENTS

<table>
<thead>
<tr>
<th>Year</th>
<th>Document Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-2016</td>
<td>Winter Plan</td>
</tr>
<tr>
<td>2016-2017</td>
<td>Winter Plan</td>
</tr>
</tbody>
</table>
Living Document, Year After Year!
“The Winter Web App has helped Middlesex by allowing us to minimize staff time and reduce our costs with preparing and maintaining our winter maintenance plan, and greatly improving our ability to defend our municipality against winter related road incident claims.”

Chris Traini
County Engineer
County of Middlesex
Version 2.0 - August 2016
BIGGEST Update
VERY BIG!
i. Customize Like Never Before!
TABLE OF CONTENTS

Winter Plan

- Purpose
- Definition
- 1.0 Objective Of Winter Operations Management
- 2.0 Policy Statement
- 3.0 Quick overview of "the municipality name"
- 4.0 Winter Maintenance Program
  - 4.1 The System Maintained
  - 4.2 Level of Service
  - 4.3 Winter Season Maintenance
  - 4.4 Winter Preparations
  - 4.5 Winter Patrol
  - 4.6 Operations
  - 4.7 Decommissioning Winter Operations
  - 4.8 Training
  - 4.9 Record Keeping
Attach any PDF document to Appendix

Custom LoS policies

Add content to the beginning/end of any section

i. Customize Like Never Before!

Completely REPLACE content of any section

Omit any section

Tons of options throughout!
ii. Add-Ons
Way Beyond the Winter Plan
iii. Now Serving and the
“The Winter Web App provides City of Fargo a user friendly program that allows our winter maintenance plan to be a living document that can be effortlessly updated at any time without having to recreate the wheel”

Benjamin Dow
Director of Operations
City of Fargo, North Dakota
3 Plan Ahead
Plan Ahead
Manage Risks
Paperless storm-tracking

Storms’ Start and End

Operations Start and End

Staff involved

Vehicles involved

Material used

Storm details

Accumulations

And more!
Chart View

- Storm
- Operations
- Accumulation
Weather Monitoring
Weather Monitoring (3.1) - MMS

Weather monitoring

3.1 (1) From October 1 to April 30, the minimum standard is to monitor the weather, both current and forecast to occur in the next 24 hours, once every shift or three times per calendar day, whichever is more frequent, at intervals determined by the municipality. O. Reg. 47/13, s. 3.

(2) From May 1 to September 30, the minimum standard is to monitor the weather, both current and forecast to occur in the next 24 hours, once per calendar day. O. Reg. 47/13, s. 3.
Prove it.
Typically a Manual Exercise... x3

Time to Record Weather

Remember to go to some weather site

Print or make PDF of the weather page

Save to file
75-100+ Hrs
Every Year...
Efficiency Metre
WEATHER TRACKER

Q2 2017
Compliance with MMS (Sec 3.1)
Simple, **One-Time** Setup
**Top Quality** Weather Data
**Punctual** Forecasts to Email x4
Live **48-hour Graph**
**Satellite** Imagery
Environment Canada **Alerts**
Historic Forecasts a **Click** Away
Smart **READ** Button
Compliance with MMS (Sec 3.1)

Simple, **One-Time** Setup

**Top Quality** Weather Data

**Punctual** Forecasts to Email x4

Live 48-hour Graph

**Satellite** Imagery

Environment Canada **Alerts**

Historic Forecasts a **Click** Away

**Smart READ** Button
Simple, One-Time Setup
SETUP | STEP #1

Please select your stations for weather forecasts

The following station(s) will be used to generate your weather forecasts:

Click a pin on map to add station

+ ADD MORE STATIONS

NEXT STEP
Please select the delivery schedule for your weather reports.
NOTE: You may select up to four (4) reports per day

- ONE REPORT EVERY 6 HOURS (12:15AM, 6:15AM, 12:15PM AND 6:15PM)

- CUSTOMIZE

  Report 1 of 4: 12:15AM - EST
  Report 2 of 4: 06:15AM - EST
  Report 3 of 4: 12:15PM - EST
  Report 4 of 4: 06:15PM - EST
**SETUP | STEP #3**

Please select (or add) Staff to whom the reports will be delivered.

<table>
<thead>
<tr>
<th>NAME OR ID</th>
<th>EMAIL</th>
<th>JOB TITLE</th>
<th>ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joe Tiernay</td>
<td><a href="mailto:Joe@ogra.org">Joe@ogra.org</a></td>
<td>Executive Director</td>
<td>✏️ ✘</td>
</tr>
<tr>
<td>James Smith</td>
<td><a href="mailto:James@ogra.org">James@ogra.org</a></td>
<td>Manager Member/Technical Service</td>
<td>✏️ ✘</td>
</tr>
<tr>
<td>Fahad Shuja</td>
<td><a href="mailto:Fahad@ogra.org">Fahad@ogra.org</a></td>
<td>OPS OGRA Coord</td>
<td>✏️ ✘</td>
</tr>
</tbody>
</table>

[BACK] FINISH SETUP
Simple, One-Time Setup
WEATHER TRACKER

Compliance with MMS (Sec 3.1)

Simple, One-Time Setup

Top Quality Weather Data

Punctual Forecasts to Email x4

Live 48-hour Graph

Satellite Imagery

Environment Canada Alerts

Historic Forecasts a Click Away

Smart READ Button
Punctual Forecasts to Email x4
**RECENT CONDITIONS**

Partly cloudy
26 °C
Pressure: 1004.1 mb (29.66 in.)
Humidity: 39%
Winds: ESE at 10 kts

**ADVISORY**

Weather Advisory issued by Environment Canada at 12:00 AM on October 27, 2023. Significant rainfall amounts and an elevated risk of flooding are expected with the potential for localized flooding. Residents are advised to stay informed and be prepared for the possibility of localized flooding. For more information, please contact your local emergency management authority or call 1-800-371-3086. For the latest forecast information, visit Environment Canada's website at www.cpc.nrcan.gc.ca.
Town of Good Roads
WEATHER REPORT 2 OF 2

Weather Last Updated: Oct 07, 2017 04:00:00 PM EDT
Report Delivered: Oct 07, 2017 04:15:00 PM EDT
Reported from Station: "ONTARIO589"
RECENT CONDITIONS

Partly cloudy. High temperature 26.3°C. Wind's direction towards West at 270° with speed 4.8 km/h.
ADVISORY:

Special Weather Statement issued by Environment. 07:22 AM EDT Saturday 07 October 2017. Significant winds of 60 km/h and wind gusts up to 80 km/h are expected to develop overnight tonight with the arrival of a cold front. Stronger wind gusts may exceed 80 km/h over some areas, most likely north of Eastern Lake Erie and Lake Ontario, as well as over higher terrain. Winds of this magnitude can toss loose objects and cause injury or damage. Gusty winds can also damage soft shelters, tents and awnings. Environment and Climate Change Canada will closely monitor the situation and issue wind warnings if necessary. ### Please continue to monitor alerts and forecasts issued by Environment Canada. To report severe weather, send an email to ec.cpio-tempetes-ospc-storms.ec@canada.ca or tweet reports using #ONStorm.

expires_epoch:1507418461
**NEXT 48-HOURS FORECAST**

<table>
<thead>
<tr>
<th>TIME</th>
<th>TEMP.</th>
<th>FEELS LIKE</th>
<th>DEW POINT</th>
<th>HUMIDITY</th>
<th>CONDITIONS</th>
<th>P.O.P.</th>
<th>RAIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:00 PM</td>
<td>26 °C</td>
<td>27.0 °C</td>
<td>15.0 °C</td>
<td>51%</td>
<td>Partly Cloudy</td>
<td>0%</td>
<td>0.0</td>
</tr>
<tr>
<td>6:00 PM</td>
<td>25 °C</td>
<td>25.0 °C</td>
<td>14.0 °C</td>
<td>52%</td>
<td>Partly Cloudy</td>
<td>0%</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**DISCLAIMER:** All weather data provided through the Winter Web App is currently experimental and is produced using data feeds from Weather Underground (www.wunderground.com). The Winter Web App does not provide any warranties of any kind. All features including forecasts and data are provided on an 'as is' and/or 'if available' basis. The content provided herein or anywhere else through the Winter Web App does not constitute advice, and the Winter Web App or any of its partners will not be liable for loss of actual or anticipated profits or savings, loss of business, loss of opportunity, loss or spoiling of data, loss of contracts, or for any indirect, special, incidental, or consequential loss or damage of any kind arising directly or indirectly from, or in connection with, the use of the Winter Web App and the information provided by the Winter Web App. Any information on the Winter Web App that is categorized as "current" or "real time" may be out of date by the time you access it. The Winter Web App is provided "as is" without warranty of any kind.

Weather Tracker Add On
Climate Change Canada will closely monitor the situation and continue to monitor alerts and forecasts issued by Environment Canada. To report severe weather, send an email to ec.cpio-tempetes-ospc-storms.ec@canada.ca or tweet reports using #ONStorm.

<table>
<thead>
<tr>
<th>CITY</th>
<th>CONDITIONS</th>
<th>P.O.P.</th>
<th>RAIN</th>
<th>SNOW</th>
<th>WIND</th>
<th>CLOUD COVER</th>
<th>PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Partly Cloudy</td>
<td>0%</td>
<td>0.0</td>
<td>0.0</td>
<td>24.0 km/h SSW</td>
<td>48%</td>
<td>1007 hPa</td>
</tr>
<tr>
<td></td>
<td>Partly Cloudy</td>
<td>0%</td>
<td>0.0</td>
<td>0.0</td>
<td>23.0 km/h SSW</td>
<td>39%</td>
<td>1007 hPa</td>
</tr>
</tbody>
</table>

Data feeds from Weather Underground (www.wunderground.com). The Winter Web App does not validate the data. Use of the weather service provided by the Winter Web App is at your sole risk and does not provide the content provided herein or anywhere else through the Winter Web App does not constitute any form of advice, recommendation, representation, endorsement or arrangement by the Winter Web App or any of its agents. Use of the data is subject to losses of business, loss of opportunity, loss or spoiling of data, loss of contracts, or for any indirect or consequential loss, whether arising from negligence, or breach of contract, or in any other way, even if we were advised beforehand that such losses could occur.

expires_epoch: 1507418461
Town of Good Harbour
WEATHER REPORT 2 OF 2

Weather Last Updated: Oct 07, 2017 14:00 PM EDT
RealFeel® Weather: Oct 07, 2017 15:03 PM EDT
Weatherman Station: "XDR1/IRL"/DART

RECENT CONDITIONS

Partly cloudy, high temperature 26°C. Wind direction remains N at 10°/14 kts with gusts 4 kts.

Partly cloudy

26 °C

ADVISORY:

Special Weather Statement issued by Environment Canada on Oct 07 14:02 EDT. Significant
winds of 40-60 kts and wind gusts up to 80 kts are expected to develop tonight in advance of a
cold front. Intense wind gusts may exceed 60 kts in some areas, most likely offshore of Lake Erie
and Lake Ontario, as well as near higher terrain. Winds of this magnitude can harm trees, cause
damage to farm and garage roofs, and also damages softs tops, tents and sailboats. Environment
and Climate Change Canada will closely monitor the situation and issue wind warnings if
necessary. For more information, visit the Environment Canada website at
canada.ca or contact our weather service centre by phone or email.

NEXT 48-HOURS FORECAST

<table>
<thead>
<tr>
<th>HRD</th>
<th>TEMP</th>
<th>FEEL</th>
<th>WIND</th>
<th>HUMIDITY</th>
<th>CONDITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>48HR</td>
<td>26°C</td>
<td>27°C</td>
<td>130°</td>
<td>84%</td>
<td>Party Cloudy</td>
</tr>
<tr>
<td>26HR</td>
<td>23°C</td>
<td>27°C</td>
<td>125°</td>
<td>79%</td>
<td>Party Cloudy</td>
</tr>
</tbody>
</table>

- Temperature: 26°C
- Humidity: 84%
- Wind: 130°
- Condition: Party Cloudy

- Temperature: 23°C
- Humidity: 79%
- Wind: 125°
- Condition: Party Cloudy
Partly cloudy
26 °C

Prevailing SW winds at 14 km/h.

ADVISORY:

Rainfall warning (drought) issued by Environment Canada on July 10, 2021. Significant rainfall of 20-40 mm is expected to develop overnight tonight with the potential of a cold rain. A thunderstorm warning may occur by early evening. The rain and strong winds may cause a loss of foothold on hillsides and roadways. Widespread downpours may cause ponding in areas of concentrated surface runoff. Drivers are advised to use caution.

NEXT 48 HOURS FORECAST

<table>
<thead>
<tr>
<th>TIME</th>
<th>TEMP.</th>
<th>FEELING</th>
<th>HUMIDITY</th>
<th>COMFORT</th>
<th>P.D.P.</th>
<th>HUR.</th>
<th>WIND</th>
<th>CLOUD/SKY</th>
<th>PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>20 °C</td>
<td>17.8 °C</td>
<td>81%</td>
<td>Hot</td>
<td>0%</td>
<td>0%</td>
<td>86 kph</td>
<td>partly cloudy</td>
<td>1013 kPa</td>
</tr>
<tr>
<td>12:00</td>
<td>20 °C</td>
<td>21.4 °C</td>
<td>74%</td>
<td>Hot</td>
<td>0%</td>
<td>0%</td>
<td>77 kph</td>
<td>partly cloudy</td>
<td>1013 kPa</td>
</tr>
</tbody>
</table>
Punctual Forecasts to Email x4
Compliance with MMS (Sec 3.1)

Simple, **One-Time** Setup

**Top Quality** Weather Data

**Punctual** Forecasts to Email x4

Live 48-hour Graph

Satellite Imagery

Environment Canada Alerts

Historic Forecasts a **Click** Away

**Smart READ** Button
Smart READ Button
YOUR WEATHER REPORT IS HERE!

Hi

Your automated weather report 2 of 4 for February 27, 2017 is here!

Once you have read the report, please click on the READ button below:

READ

If you have trouble with the report, please contact us at helpdesk@ocraapps.com

Kind Regards,

The Winter Web App Team
Hi

Your automated weather report 2 of 2.

Once you have read the report, please click on the green "READ" button.

If you have trouble with the report, please contact us.

Kind Regards,

The Winter Web App Team
Please select a date to see detailed history of your previous weather reports:

Select Date
2017/10/11

GET HISTORY
REPORTS HISTORY

Please select a date to see detailed history of your previous weather reports:

```
Select Date
2017/10/11
```

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>READ STATUS</th>
<th>ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct 7, 2017</td>
<td>09:15AM EDT</td>
<td>1 of 2</td>
<td></td>
</tr>
<tr>
<td>Oct 7, 2017</td>
<td>04:15PM EDT</td>
<td>1 of 2</td>
<td></td>
</tr>
</tbody>
</table>
### DETAILS: Oct 7, 2017 - 04:15PM REPORT

<table>
<thead>
<tr>
<th>SENT TO</th>
<th>SENT TIME</th>
<th>READ RECEIPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steve Nash</td>
<td>Oct 7 @ 04:15PM</td>
<td>N/A</td>
</tr>
<tr>
<td>Robert Junior</td>
<td>Oct 7 @ 04:15PM</td>
<td>Oct 7 @ 5:10PM</td>
</tr>
</tbody>
</table>
“I think it is great OGRA is looking after its members in this way - providing economical services to ensure we are meeting our obligations to the public, while meeting compliance of MMS Legislation. Also, the cost is about half the price of our current weather provider, so we have made the switch!”

Joseph Reid
Supervisor - Road Services
City of Belleville
Ontario
Prove it.
Yes we can!
Plan Ahead
Manage Risks
Plan Ahead

Manage Risks

What if...
Yes, we’ve been cooking again!
Stay tuned! =)
CURRENT REALITY

Less Everything!
Look for EFFICIENCIES
Shape Your Reality EFFICIENTLY
Winter Web App