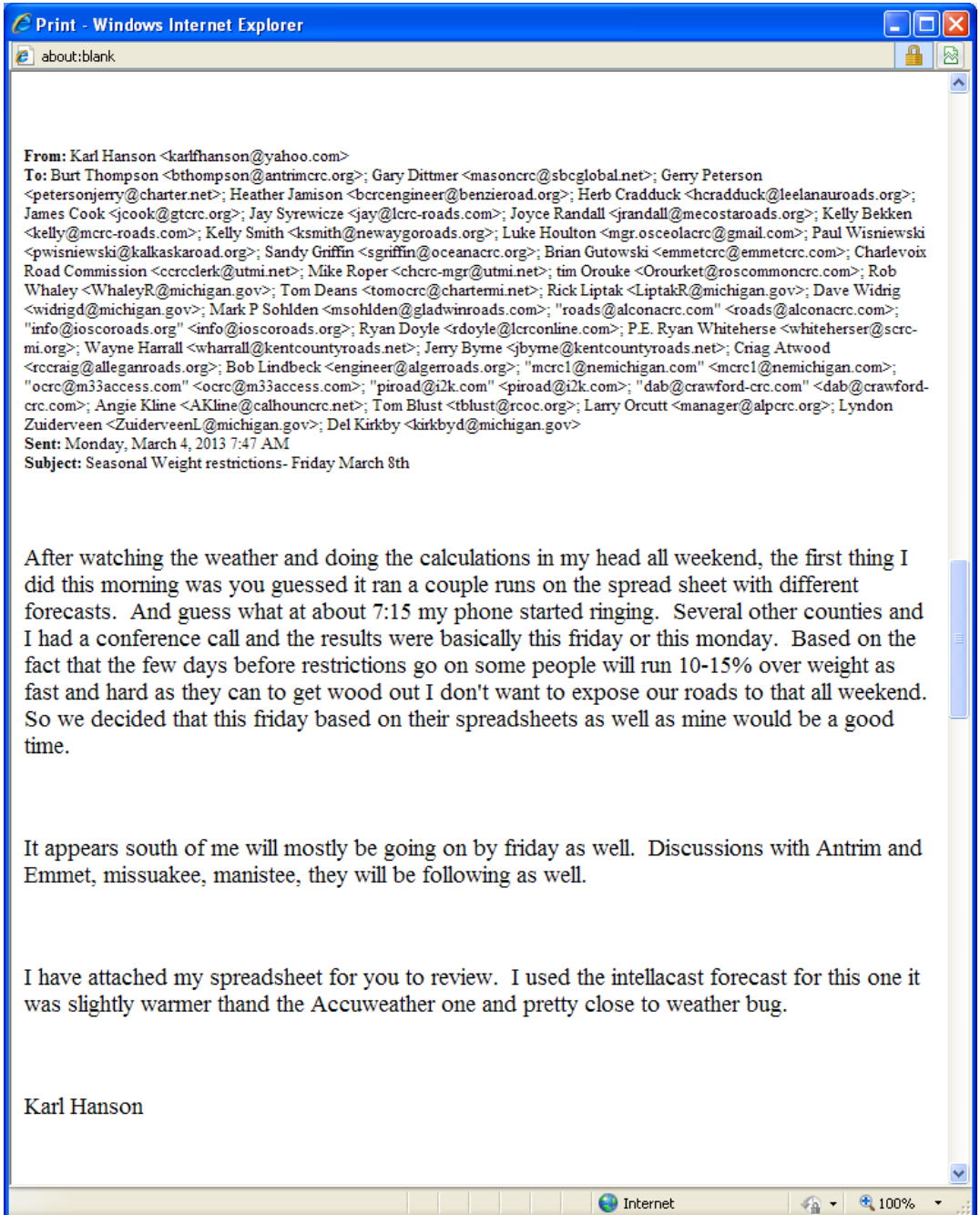


North Region-Pilot Seasonal Weight Restrictions Regionalization

Karl Hanson
Wexford County Road
Commission,
County Highway Engineer



Implementation discussion



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From: Karl Hanson <karlfhanson@yahoo.com>
To: Burt Thompson <bthompson@antrimcrc.org>; Gary Dittmer <masoncrc@sbcglobal.net>; Gerry Peterson <peteronjerry@charter.net>; Heather Jamison <brcrcengineer@benzieroad.org>; Herb Craddock <hcraddock@leelanauroads.org>; James Cook <jcook@gtcrc.org>; Jay Syrewicze <jay@lcr-roads.com>; Joyce Randall <jrandall@mecostaroads.org>; Kelly Belken <kelly@mcrc-roads.com>; Kelly Smith <ksmith@newaygoroads.org>; Luke Houlton <mgr.osceolacrc@gmail.com>; Paul Wisniewski <pwisniewski@kalkaskaroad.org>; Sandy Griffin <sgniffin@oceanacrc.org>; Brian Gutowski <emmetcrc@emmetcrc.com>; Charlevoix Road Commission <crcclerk@utmi.net>; Mike Roper <chcrc-mgr@utmi.net>; tim Orouke <Orouket@roscommoncrc.com>; Rob Whaley <WhaleyR@michigan.gov>; Tom Deans <tomocrc@chartemi.net>; Rick Liptak <LiptakR@michigan.gov>; Dave Widrig <widrigd@michigan.gov>; Mark P Sohlden <msohlden@gladwinroads.com>; "roads@alconacrc.com" <roads@alconacrc.com>; "info@ioscoroads.org" <info@ioscoroads.org>; Ryan Doyle <rdoyle@lcronline.com>; P.E. Ryan Whiteherse <whiteherse@scrc-mi.org>; Wayne Harrall <wharrall@kentcountyroads.net>; Jerry Byrne <jbyrne@kentcountyroads.net>; Criag Atwood <rcraig@alleganroads.org>; Bob Lindbeck <engineer@algerroads.org>; "mcrcl@nemichigan.com" <mcrcl@nemichigan.com>; "ocrc@m33access.com" <ocrc@m33access.com>; "piroad@12k.com" <piroad@12k.com>; "dab@crawford-crc.com" <dab@crawford-crc.com>; Angie Kline <AKline@calhouncrc.net>; Tom Blust <tblust@rcoc.org>; Larry Orcutt <manager@alpcrc.org>; Lyndon Zuiderveen <ZuiderveenL@michigan.gov>; Del Kirkby <kirkbyd@michigan.gov>
Sent: Monday, March 4, 2013 7:47 AM
Subject: Seasonal Weight restrictions- Friday March 8th

After watching the weather and doing the calculations in my head all weekend, the first thing I did this morning was you guessed it ran a couple runs on the spread sheet with different forecasts. And guess what at about 7:15 my phone started ringing. Several other counties and I had a conference call and the results were basically this friday or this monday. Based on the fact that the few days before restrictions go on some people will run 10-15% over weight as fast and hard as they can to get wood out I don't want to expose our roads to that all weekend. So we decided that this friday based on their spreadsheets as well as mine would be a good time.

It appears south of me will mostly be going on by friday as well. Discussions with Antrim and Emmet, missaukee, manistee, they will be following as well.

I have attached my spreadsheet for you to review. I used the intellacast forecast for this one it was slightly warmer than the Accuweather one and pretty close to weather bug.

Karl Hanson

Internet 100%

Ways to make decision

- Use some sound verifiable scientific method.
- Admin Staff begs you to put them on to stop people from calling.
- Trust someone's feel with roads and the forecast.
- When you want to go fishing and not have to return 50 phone calls about “Frost Laws”



Giving advice on how to properly use spreadsheet



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about:blank

From: Karl Hanson <karlhanson@yahoo.com>
To: ""Burt Thompson"" <bthompson@antrimcrrc.org>; ""Gary Dittmer"" <masoncrrc@sbcglobal.net>; ""Gerry Peterson"" <petersongerry@charter.net>; ""Heather Jamison"" <brcrcengineer@benzieroad.org>; ""Herb Craddock"" <hcraddock@leelanauroads.org>; ""James Cook"" <jcook@gtcrrc.org>; ""Jay Syrewicze"" <jay@lcrcc-roads.com>; ""Joyce Randall"" <jrandall@meccostaroads.org>; ""Kelly Bekken"" <kelly@mccrrc-roads.com>; ""Kelly Smith"" <ksmith@newwaygoroads.org>; ""Luke Houlton"" <mgr.osceolacrrc@gmail.com>; ""Paul Wisniewski"" <pwisniewski@kalkaskaroad.org>; ""Sandy Griffin"" <sgriffin@oceanacrrc.org>; Brian Gutowski <emmetcrrc@emmetcrrc.com>; Charlevoix Road Commission <crrcclerk@utmi.net>; Mike Roper <chcrrc-mgr@utmi.net>; tim Orouke <Orouket@roscommoncrrc.com>; Rob Whaley <WhaleyR@michigan.gov>; Tom Deans <tomocrrc@chartemi.net>; Rick Liptak <LiptakR@michigan.gov>; Dave Widrig <widrigd@michigan.gov>; Mark P Sohlden <msohlden@gladwinroads.com>; "roads@alconacrrc.com" <roads@alconacrrc.com>; "info@ioscoroads.org" <info@ioscoroads.org>; Ryan Doyle <rdoyle@lcrconline.com>; P.E. Ryan Whiteherse <whiteherse@sccr-mi.org>; Wayne Harrall <wharrall@kentcountyroads.net>; Jerry Byrne <jbyrne@kentcountyroads.net>; Cniag Atwood <rccraig@alleganroads.org>; Bob Lindbeck <engineer@algenroads.org>; "mcrcl@nemichigan.com" <mcrcl@nemichigan.com>; "ocrc@m33access.com" <ocrc@m33access.com>; "piroad@i2k.com" <piroad@i2k.com>; "dab@crawford-crc.com" <dab@crawford-crc.com>; Angie Kline <AKline@calhouncrrc.net>; Tom Blust <tblust@rcoc.org>; Larry Orcutt <manager@alpcrrc.org>; Lyndon Zuiderveen <ZuiderveenL@michigan.gov>; Cniag Atwood <rccraig@alleganroads.org>; Del Kirkby <kirkbyd@michigan.gov>
Sent: Wednesday, February 27, 2013 3:03 PM
Subject: Re: Seasonal Weight restrictions-Northern Michigan

I have received a fair number of emails and calls regarding restrictions this year and people with questions about use of the the spread sheet. It looks like more and more people are trying it out this year and that is really pretty cool. Now I hope weather and the spreadsheet jive this year like in years past so people develop faith in it. Most are seeing similar things as I am which if the forecast is correct then restrictions are still a little ways off.

I have attached a copy of my spreadsheet for you to look at. Since it is snowing and cold we have not checked our frost tubes but will be soon. The counties on the lake side might notice a difference if they do cities on the lake shore and further inland. Ottawa county has been using this spreadsheet for over 20 years and notice differences up to 200 degree days in the sum of there frost index.

Looking out on the spreadsheet we hit 6.5 on March 8 showing that with a small change in that extended forecast you could be into the should level of 10 but not near the 40 of the must category. So depending on how accurate it is after that you should be watching that time frame carefully. So with the press etc be careful when making statements with respect to that trend. It currently looks like the forecast is pretty safe for about the next week and after that you are a small change in forecast from implementation.

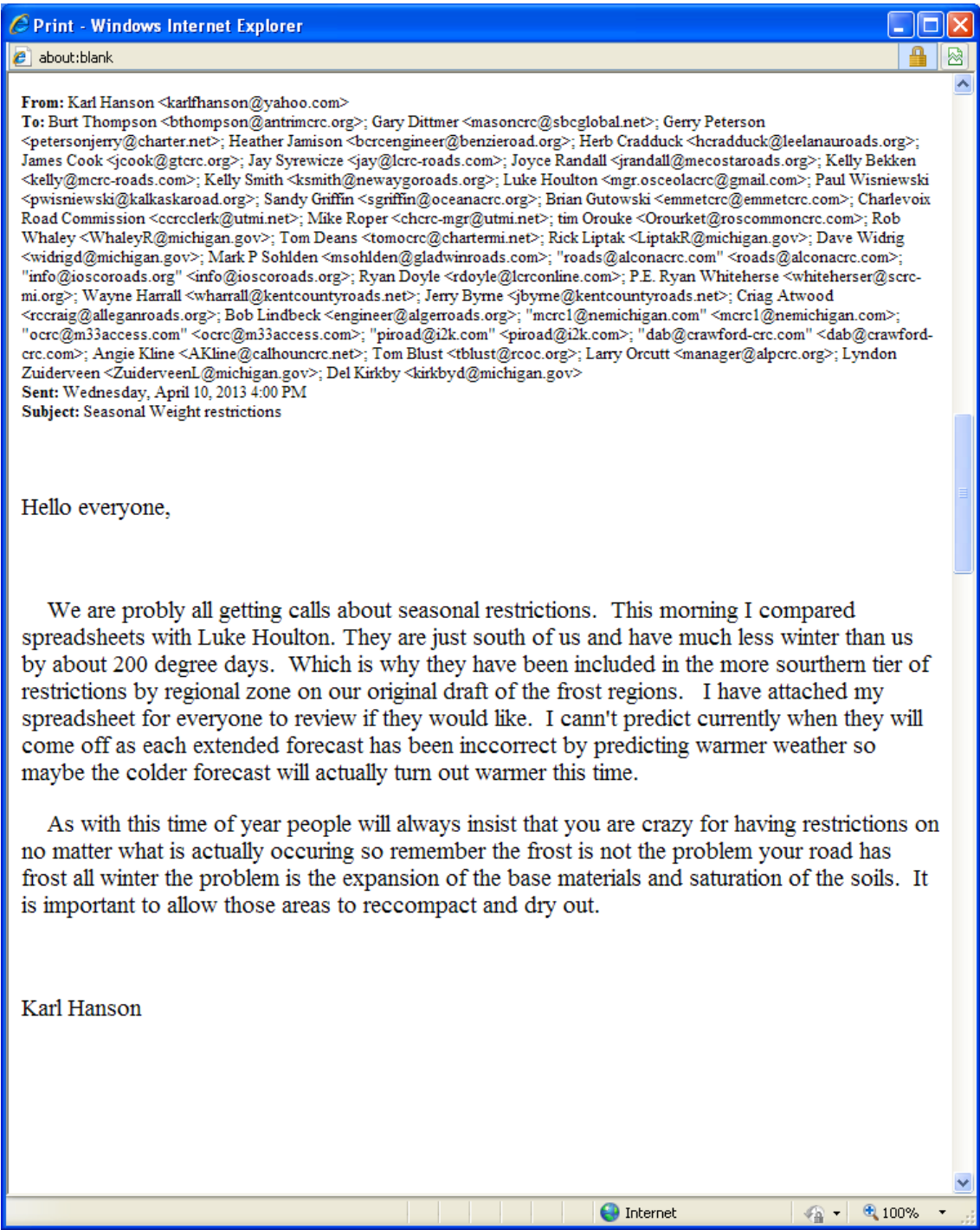
Karl Hanson

Internet 100%

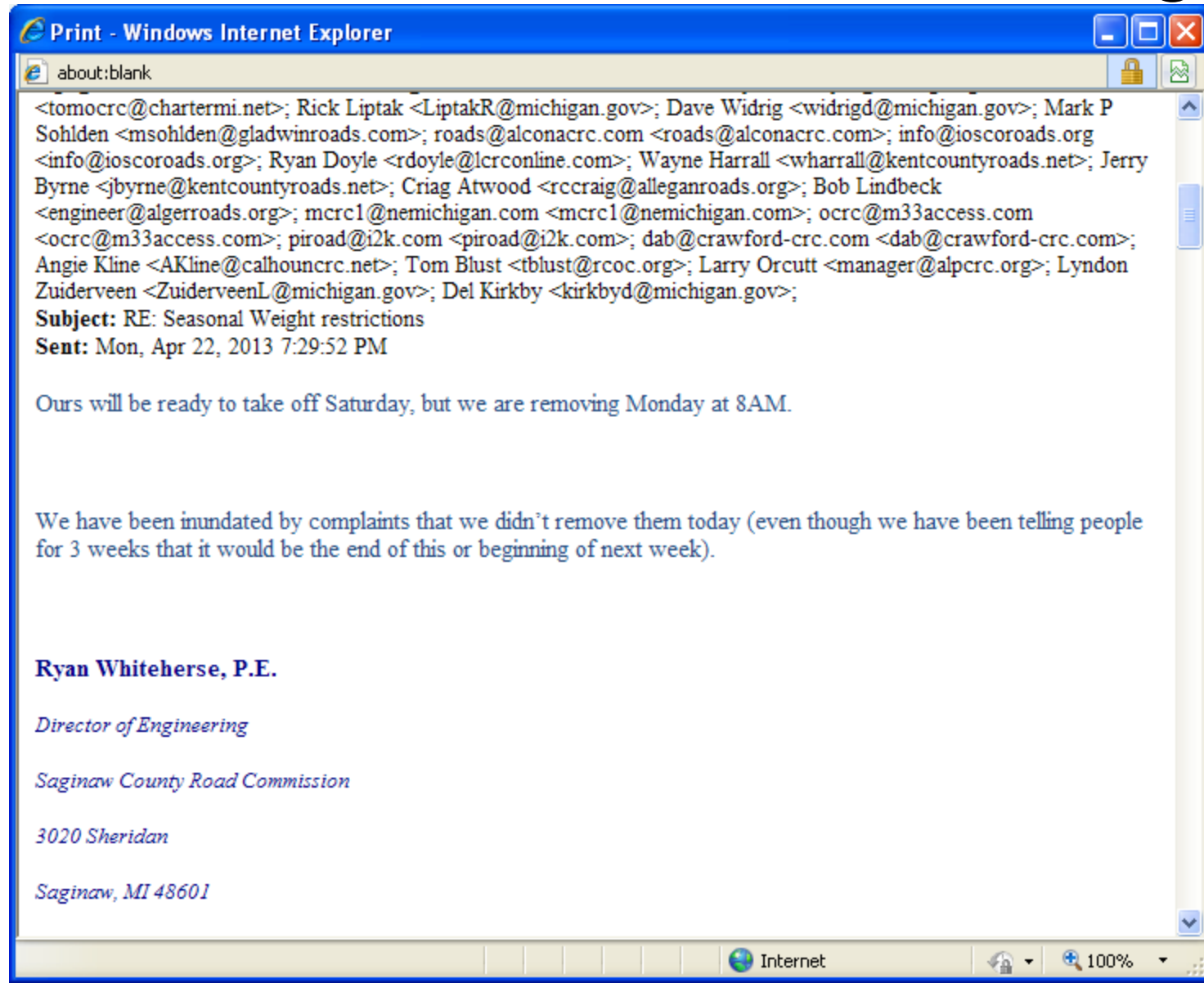
Spreadsheet Suggestions

- Implementation only as good as forecast
- Look at multiple forecast
- If extended forecast gets cold again rethink it.
- Check your links before you do anything
- Don't rush to judgement just to give someone an answer.
- Sometimes best answer is lets just watch forecast.

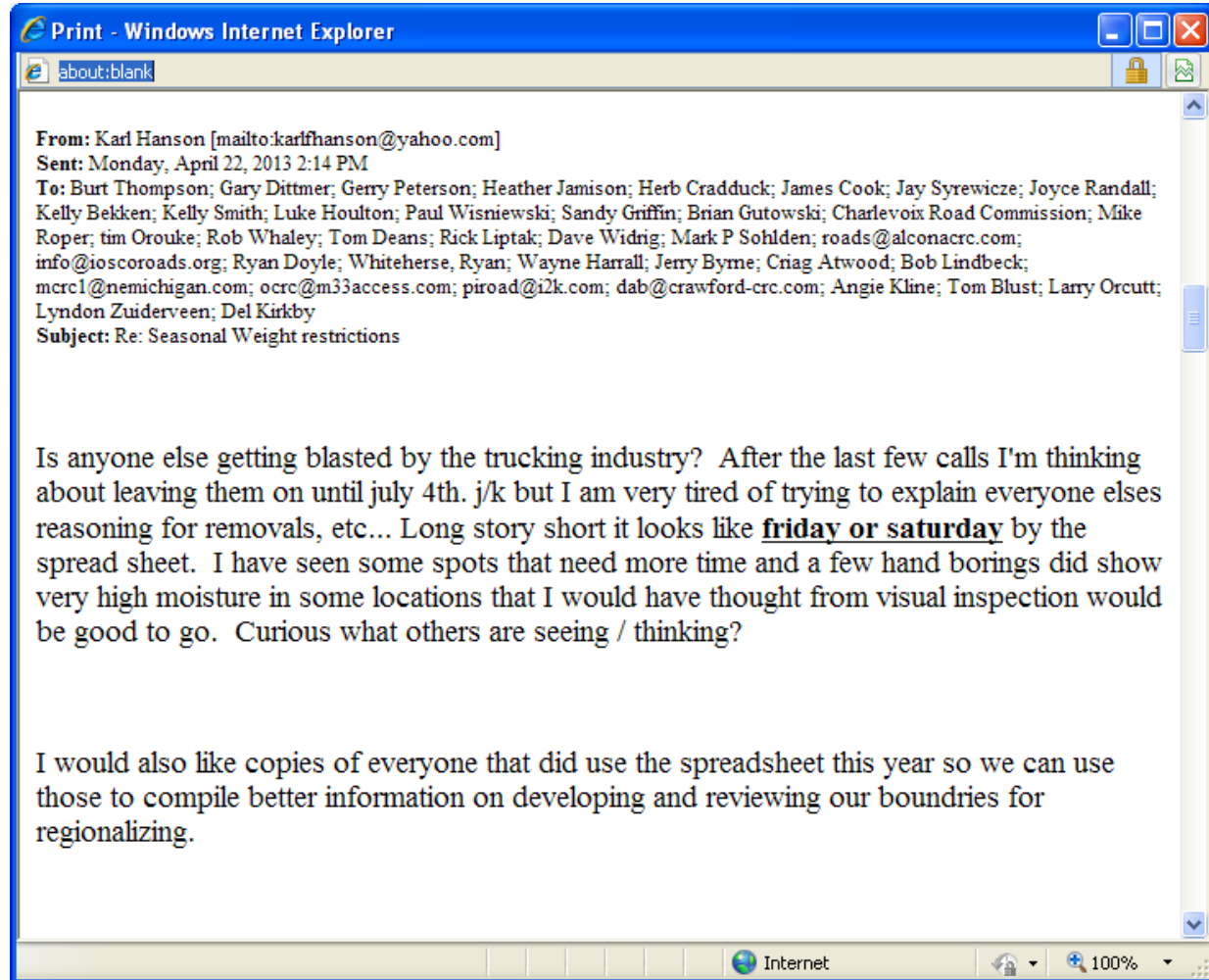
Helping everyone understand the mechanics of statewide breakup



Communication outside of our Region



Tempering Spreadsheet with actual info.



Pull restrictions

- When first trillium is spotted?
- Chairman calls the second time inquiring?
- Contractors or industry wants to get to work?



- When someone finds a morel?



Other good reasons to Pull Restrictions

- Administrative assistant won't talk to you anymore.
- Walleye season opens



Frost leaving gravel road







- Check Bear Pole to see if bears are out of hibernation yet?



MDOT
Held off
Thank
You!!

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about:blank

From: "Widrig, Dave (MDOT)" <Widrigd@michigan.gov>
To: Karl Hanson <karlfhanson@yahoo.com>
Cc: Burt Thompson <bthompson@antrimcra.org>; Gary Dittmer <masoncra@sbcglobal.net>; Gerry Peterson <petersonjerry@charter.net>; Heather Jamison <brcrcengineer@benzieroad.org>; Herb Craddock <hcraddock@leelanaroads.org>; James Cook <jcook@gtcra.org>; Jay Syrewicze <jay@lcrca-roads.com>; Joyce Randall <jrandall@mecostaroads.org>; Kelly Bekken <kelly@mcrca-roads.com>; Kelly Smith <ksmith@newaygoroads.org>; Luke Houlton <mgr_osceolacra@gmail.com>; Paul Wisniewski <pwisniewski@kalkaskaroad.org>; Sandy Griffin <sgriffin@oceanacra.org>; Brian Gutowski <emmetcra@emmetcra.com>; Charlevoix Road Commission <[craclerk@utmi.net](mailto:crcclerk@utmi.net)>; Mike Roper <chcra-mgr@utmi.net>; tim Orouke <Orouket@roscommoncra.com>; "Whaley, Robert E. (MDOT)" <WhaleyR@michigan.gov>; Tom Deans <tomocra@chartermi.net>; "Liptak, Rick (MDOT)" <LiptakR@michigan.gov>; Mark P Sohlden <msohlden@gladwinroads.com>; "roads@alconacra.com" <roads@alconacra.com>; "info@ioscoroads.org" <info@ioscoroads.org>; Ryan Doyle <rdoyle@lcrconline.com>; P.E. Ryan Whiteherse <whiteherse@scra-mi.org>; Wayne Harrall <wharrall@kentcountyroads.net>; Jerry Byrne <jbyrne@kentcountyroads.net>; Criag Atwood <rcraig@alleganroads.org>; Bob Lindbeck <engineer@algerroads.org>; "mcrcl@nemichigan.com" <mcrcl@nemichigan.com>; "ocra@m33access.com" <ocra@m33access.com>; "piroad@i2k.com" <piroad@i2k.com>; "dab@crawford-cra.com" <dab@crawford-cra.com>; Angie Kline <AKline@calhouncra.net>; Tom Blust <tblust@rcoc.org>; Larry Orcutt <manager@alpcra.org>; "Zuiderveen, Lyndon (MDOT)" <ZuiderveenL@michigan.gov>; "Kirkby, Del (MDOT)" <KirkbyD@michigan.gov>

Sent: Monday, April 22, 2013 4:09 PM
Subject: Re: Seasonal Weight restrictions

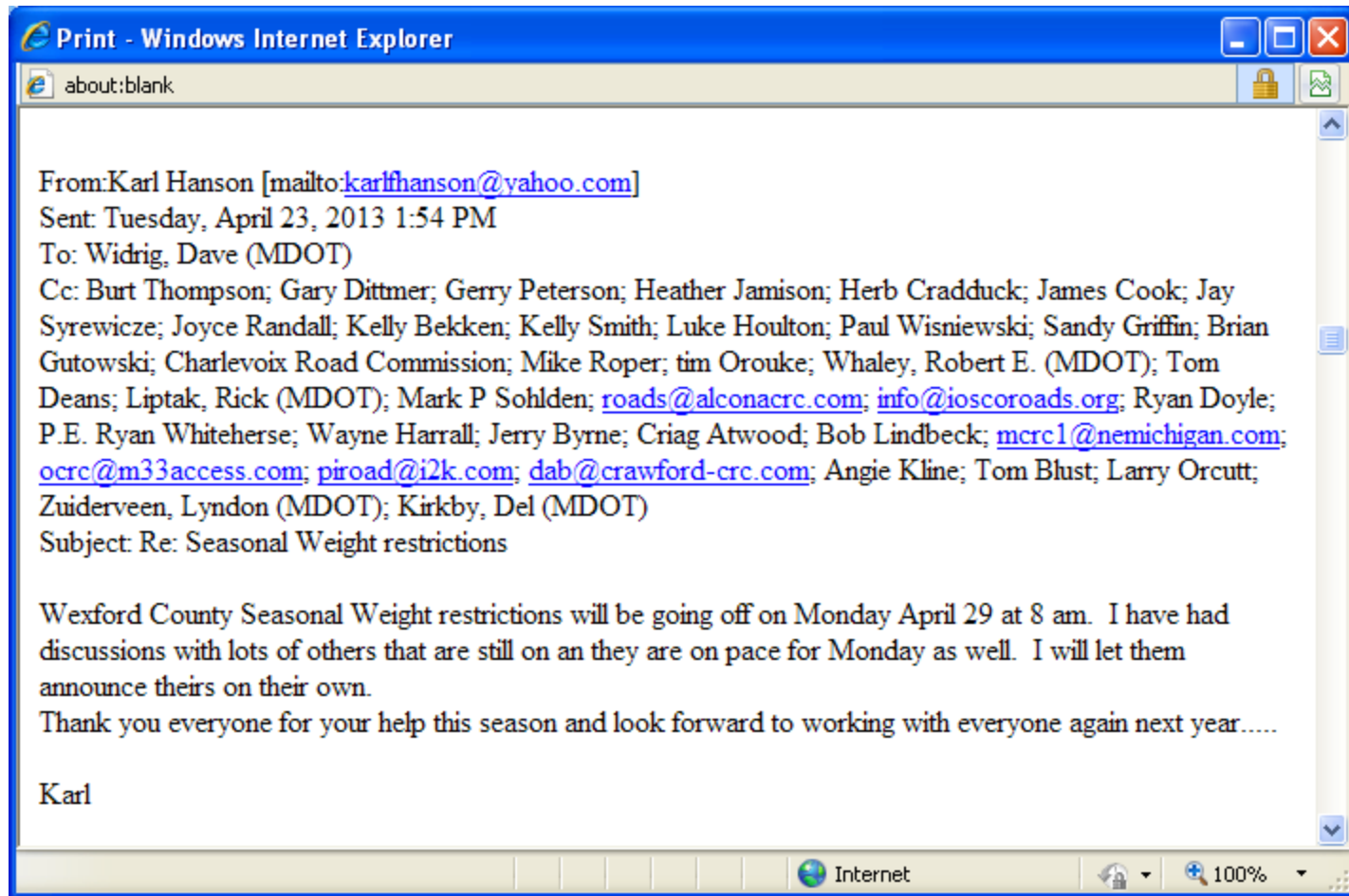
Restrictions will be lifted Friday the 26th at 8:00am for the rest of the lower peninsula on all state roads

Dave

Sent from my iPhone

Internet 100%

Done Herding Cats until next spring!



GUIDELINES FOR SPRING HIGHWAY USE RESTRICTIONS

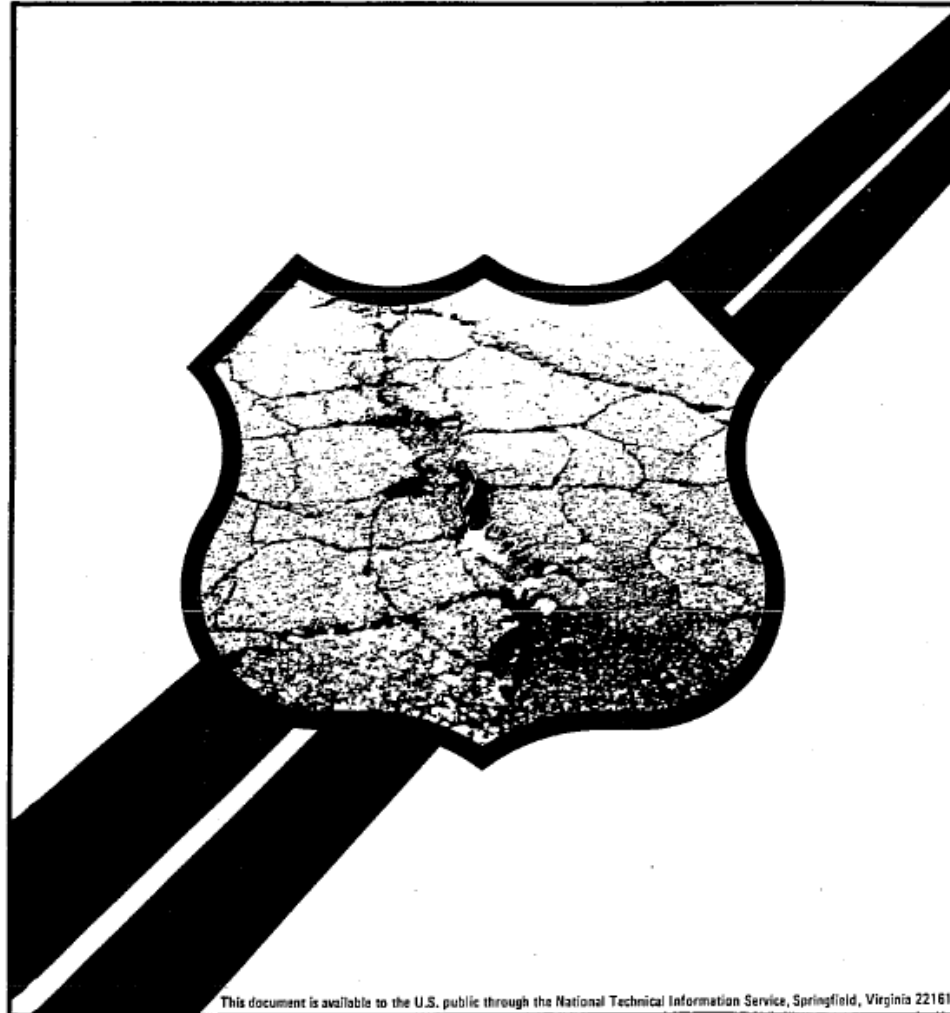
Research, Development,
and Technology
Turner-Fairbank Highway
Research Center
6300 Georgetown Pike
McLean, Virginia 22101-2295

Report No:
FHWA-TS-87-209

Video Supplement
January 1987



U.S. Department
of Transportation
**Federal Highway
Administration**



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TABLE 1**Pavement
Load Reduction (%)****Pavement
Life Increases (%)****20****62****30****78****40****88****50****95**

TABLE 2

<u>Pavement Structure</u>	<u>BST/Asphalt Concrete Thickness (inches)</u>	<u>Base Course Thickness (inches)</u>	<u>Thawing Index (°F-days)</u>	
			<u>Should Level</u>	<u>Must Level</u>
• Thin	2 inches or less	6 inches or less	10	40
• Thick	Greater than 2 inches	Greater than 6 inches	25	50

Winter

+

Spring
Breakup

=

Summer



+



=



+

