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>

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, missuakee, 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 thand the Accuweather one and pretty close to weather bug.

Karl Hanson

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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From: Karl Hanson <karlfhanson@yahoo.com>

To: ""Burt Thompson""

thompson@antrimcrc.org>; ""Gary Dittmer"" <masoncrc@sbcglobal.net>; ""Gerry Peterson"" cpetersonjerry@charter.net>; ""Heather Jamison"" <bcrcengineer@benzieroad.org>; ""Herb Cradduck"" <hcradduck@leelanauroads.org>; ""James Cook"" <jcook@gtcrc.org>; ""Jay Syrewicze"" <jay@lcrc-roads.com>; ""Joyce Randall"" irandall@mecostaroads.org>; ""Kelly Bekken"" <kelly@mcrc-roads.com>; ""Kelly Smith"" <ksmith@newaygoroads.org>; ""Luke Houlton"" <mgr.osceolacrc@gmail.com>; ""Paul Wisniewski"" <pwisniewski@kalkaskaroad.org>; ""Sandy Griffin"" <sgriffin@oceanacrc.org>; Brian Gutowski <emmetcrc@emmetcrc.com>; Charlevoix Road Commission <ccrcclerk@utmi.net>; Mike Roper <chcrc-mgr@utmi.net>; tim Orouke <Orourket@roscommoncrc.com>; Rob Whaley <WhaleyR@michigan.gov>; Tom Deans <tomocrc@chartermi.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@lcrconline.com>; P.E. Ryan Whiteherse <whiteherser@scrc-mi.org>; Wayne Harrall <wharrall@kentcountyroads.net>; Jerry Byrne <jbyrne@kentcountyroads.net>; Criag Atwood <rccraig@alleganroads.org>; Bob Lindbeck <engineer@algerroads.org>: "mcrc1@nemichigan.com" <mcrc1@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@calhouncrc.net>; Tom Blust <tblust@rcoc.org>; Larry Orcutt <manager@alpcrc.org>; Lyndon Zuiderveen <ZuiderveenL@michigan.gov>; Criag 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

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

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From: Karl Hanson <karlfhanson@yahoo.com>

To: Burt Thompson

bthompson@antrimcrc.org>; Gary Dittmer <masoncrc@sbcglobal.net>; Gerry Peterson cpetersonjerry@charter.net>; Heather Jamison
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Hello everyone,

We are probly all getting calls about seasonal restrictions. This morning I compared spreadsheets with Luke Houlton. They are just south of us and have much less winter than us by about 200 degree days. Which is why they have been included in the more sourthern tier of restrictions by regional zone on our original draft of the frost regions. I have attached my spreadsheet for everyone to review if they would like. I cann't predict currently when they will come off as each extended forecast has been inccorrect by predicting warmer weather so maybe the colder forecast will actually turn out warmer this time.

As with this time of year people will always insist that you are crazy for having restrictions on no matter what is actually occuring so remember the frost is not the problem your road has frost all winter the problem is the expansion of the base materials and saturation of the soils. It is important to allow those areas to reccompact and dry out.

Karl Hanson

Communication outside of our Region

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Zuiderveen <ZuiderveenL@michigan.gov>; Del Kirkby <kirkbyd@michigan.gov>;

Subject: RE: Seasonal Weight restrictions

Sent: Mon, Apr 22, 2013 7:29:52 PM

Ours will be ready to take off Saturday, but we are removing Monday at 8AM.

We have been inundated by complaints that we didn't remove them today (even though we have been telling people for 3 weeks that it would be the end of this or beginning of next week).

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Ryan Whiteherse, P.E.

Director of Engineering

Saginaw County Road Commission

3020 Sheridan

Saginaw, MI 48601

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ng eet	From: Karl Hanson [mailto:karlfhanson@yahoo.com] Sent: Monday, April 22, 2013 2:14 PM To: Burt Thompson; Gary Dittmer; Gerry Peterson; Heather Jamison; Herb Cradduck; James Cook; Jay Syrewicze; Joyce Ra Kelly Bekken; Kelly Smith; Luke Houlton; Paul Wisniewski; Sandy Griffin; Brian Gutowski; Charlevoix Road Commission; M Roper; tim Orouke; Rob Whaley; Tom Deans; Rick Liptak; Dave Widrig; Mark P Sohlden; roads@alconacrc.com; info@ioscoroads.org; Ryan Doyle; Whiteherse, Ryan; Wayne Harrall; Jerry Byrne; Criag Atwood; Bob Lindbeck; mcrc1@nemichigan.com; ocrc@m33access.com; piroad@i2k.com; dab@crawford-crc.com; Angie Kline; Tom Blust; Larry O Lyndon Zuiderveen; Del Kirkby Subject: Re: Seasonal Weight restrictions	Mike	
al	Is anyone else getting blasted by the trucking industry? After the last few calls I'm think about leaving them on until july 4th. j/k but I am very tired of trying to explain everyone or reasoning for removals, etc Long story short it looks like <u>friday or saturday</u> by the spread sheet. I have seen some spots that need more time and a few hand borings did s very high moisture in some locations that I would have thought from visual inspection w be good to go. Curious what others are seeing / thinking?	elses show	
	I would also like copies of everyone that did use the spreadsheet this year so we can use those to compile better information on developing and reviewing our boundries for regionalizing.	e	

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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







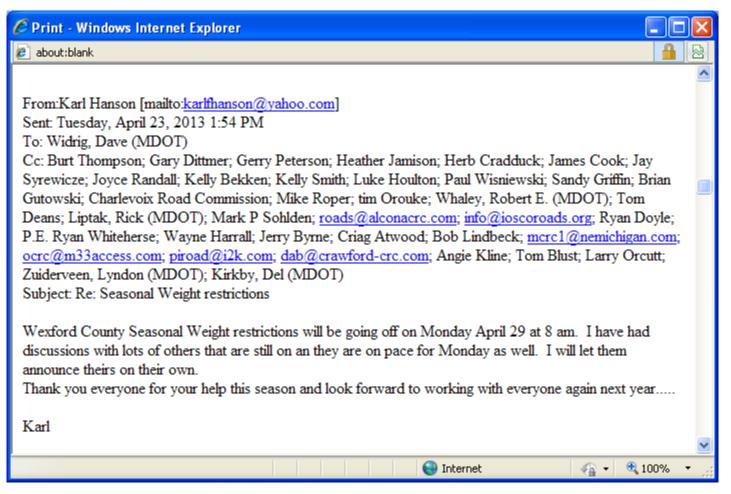
 Check Bear Pole to see if bears are out of hibernation yet?



MDOT Held off Thank You!!

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From:"Widrig, Dave (MDOT)" < <u>Widrigd@michigan.gov</u> >	^
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"Zuiderveen, Lyndon (MDOT)" < <u>ZuiderveenL@michigan.gov</u> >; "Kirkby, Del (MDOT)"	
< <u>KirkbyD@michigan.gov</u> >	
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	~
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Done Herding Cats until next spring!



GUIDELINES FOR SPRING

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and Technology **HIGHWAY USE RESTRICTIONS** Furner-Fairbank Highway Research Center 6300 Georgetown Pike McLean, Virginia 22101-2296 Report No: FHWA-TS-87-209 US.Department Video Supplement of Transportation January 1987 Federal Highway Administration This document is available to the U.S. public through the National Technical Information Service, Springfield, Virginia 22161

Research, Development,

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

		TABLE 2		
Pavement <u>Structure</u>	BST/Asphalt Concrete _Thickness (inches)	Base Course Thickness (inches)	Thawing <u>(°F-day</u> Should Level	
• Thin	2 inches or less	6 inches or less	10	40
 Thick 	Greater than 2 inches	Greater than 6 Inches	25	50
		1		

Winter

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Spring ₌ Summer Breakup







