

APPENDIX A:

Documentation of Consultation

March 17, 2016 UPPCO Request for Comment

Jarrold F. Nelson

From: Jarrod F. Nelson
Sent: Thursday, March 17, 2016 3:27 PM
To: Kruger, Kyle (DNR) (KRUGERK@michigan.gov); Carpenter, Koren (DEQ) (CarpenterK5@michigan.gov); 'gmensch@kbic-nsn.gov'; Jim Grundstrom; Burr Fisher
Cc: Kohlhepp, Gary (DEQ) (KOHLHEPPG@michigan.gov); Klemans, Diana (DEQ) (KLEMANSD@michigan.gov); Virgil E. Schlorke; Robert J. Meyers
Subject: Hoist Basin - Request for Headwater Deviations

All,

UPPCO is requesting your concurrence to deviate from its normal operations of striving toward a 1337.5 feet NGVD April start of month target elevation, to allowing the Hoist Basin to fill to headwater elevations between approximately 1342-1343 feet NGVD. UPPCO suggested a Dead River Stakeholder meeting in early February in the Three Year Test Period Report for Test Year Two. Due some scheduling conflicts, that meeting was moved to April 11th, 2016 at 10 AM.

The meeting was suggested in order to discuss start of month target elevation adjustments for March and April and it was suggested in the report that the start of month target for May should be set as 1441.0 feet NGVD. The current start of month target for April of 1337.5 feet NGVD is not suitable for storage of spring run-off for 2016. UPPCO is making this deviation request due to recent changes in weather impacting headwater elevation forecasting for the Hoist Basin. From January 1, 2016 to March 8, 2016, UPPCO observed a steady decline in Hoist headwater elevations from 1340.7 feet NGVD to 1337.9 feet NGVD.

Similarly, snow-water equivalency predictions for the area around the Hoist Basin was for 4-6 inches on March 8th, 2016, when Marquette County saw unseasonably high temperatures of 61°F. The warm temperatures lead to a sharp increase to headwater elevations on March 8, 2016 to March 17, 2016 from 1337.9 feet NGVD to 1339.8 feet NGVD. Instead of instantly lowering the headwater, UPPCO is suggesting to store water in Hoist to meet elevations between 1342-1343 feet NGVD in order to meet the 1341.0 feet NGVD start of month targets for the summer months.

The request for storage is even more vital in 2016 due to the requests from FERC to limit outflows from Silver Lake to the minimums until spilling occurs (elevation 1385.2 feet NGVD). A continuously weak snowpack prediction (despite current snowfall), as well as a bleak outlook for precipitation in the extended forecast will likely lead to a need for an early dry-year consultation, if UPPCO is unable to store a portion of the current inflows in Hoist Basin during the run-off season.

We continue to work with all Stakeholder's best interest in mind and want to have the ability to offer higher water elevations for the recreation season for all the people choosing to recreate on the Hoist Basin each summer and fall. UPPCO asks that you respond with your comments within 5 work days. If UPPCO does not receive any comments within 5 work days, it will be assumed you have none and we will move forward with the proposed deviations.

Thank you,
-Jarrod Nelson

Jarrold Nelson, Certified Associate Ecologist (ESA)
Environmental Consultant | Upper Peninsula Power Company
Cell: (989)600-5665
Direct: (906)232-1433
Email: jfnelson@uppc.com

March 18, 2016 KBIC Response

Jarrold F. Nelson

From: Jarrod F. Nelson
Sent: Friday, March 18, 2016 10:38 AM
To: 'Gene Mensch'; Kruger, Kyle (DNR) (KRUGERK@michigan.gov); Carpenter, Koren (DEQ) (CarpenterK5@michigan.gov); Jim Grundstrom; Burr Fisher
Cc: Kohlhepp, Gary (DEQ) (KOHLHEPPG@michigan.gov); Klemans, Diana (DEQ) (KLEMANSD@michigan.gov); Virgil E. Schlorke; Robert J. Meyers
Subject: RE: Hoist Basin - Request for Headwater Deviations

[UPPCO appreciates the KBIC's input on this planned deviation request, thank you Gene!](#)

From: Gene Mensch [mailto:gmensch@kbic-nsn.gov]
Sent: Friday, March 18, 2016 10:19 AM
To: Jarrod F. Nelson <JFNelson@uppc.com>; Kruger, Kyle (DNR) (KRUGERK@michigan.gov) <KRUGERK@michigan.gov>; Carpenter, Koren (DEQ) (CarpenterK5@michigan.gov) <CarpenterK5@michigan.gov>; Jim Grundstrom <jimgrundstrom@freichevy.com>; Burr Fisher <burr_fisher@fws.gov>
Cc: Kohlhepp, Gary (DEQ) (KOHLHEPPG@michigan.gov) <KOHLHEPPG@michigan.gov>; Klemans, Diana (DEQ) (KLEMANSD@michigan.gov) <KLEMANSD@michigan.gov>; Virgil E. Schlorke <VESchlorke@uppc.com>; Robert J. Meyers <RJMeyers@uppc.com>
Subject: RE: Hoist Basin - Request for Headwater Deviations

Good morning,

KBIC has no comment regarding proposed deviations at Hoist Basin.

*Gene Mensch
Fisheries and Wildlife Biologist, Adjunct Instructor
Keweenaw Bay Indian Community Natural Resources Department, OCC
14359 Pequaming Road
L'Anse, Michigan 49946
Website: nrd.kbic-nsn.gov
Phone: 906-524-5757 x12
Fax: 906-524-5748*

From: Jarrod F. Nelson [JFNelson@uppc.com]
Sent: Thursday, March 17, 2016 3:26 PM
To: Kruger, Kyle (DNR) (KRUGERK@michigan.gov); Carpenter, Koren (DEQ) (CarpenterK5@michigan.gov); Gene Mensch; Jim Grundstrom; Burr Fisher
Cc: Kohlhepp, Gary (DEQ) (KOHLHEPPG@michigan.gov); Klemans, Diana (DEQ) (KLEMANSD@michigan.gov); Virgil E. Schlorke; Robert J. Meyers
Subject: Hoist Basin - Request for Headwater Deviations

All,

UPPCO is requesting your concurrence to deviate from its normal operations of striving toward a 1337.5 feet NGVD April start of month target elevation, to allowing the Hoist Basin to fill to headwater elevations between approximately 1342-1343 feet NGVD. UPPCO suggested a Dead River Stakeholder meeting in early February in the Three Year Test Period Report for Test Year Two. Due some scheduling conflicts, that meeting was moved to April 11th, 2016 at 10 AM.

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of month target for April of 1337.5 feet NGVD is not suitable for storage of spring run-off for 2016. UPPCO is making this deviation request due to recent changes in weather impacting headwater elevation forecasting for the Hoist Basin. From January 1, 2016 to March 8, 2016, UPPCO observed a steady decline in Hoist headwater elevations from 1340.7 feet NGVD to 1337.9 feet NGVD.

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The request for storage is even more vital in 2016 due to the requests from FERC to limit outflows from Silver Lake to the minimums until spilling occurs (elevation 1385.2 feet NGVD). A continuously weak snowpack prediction (despite current snowfall), as well as a bleak outlook for precipitation in the extended forecast will likely lead to a need for an early dry-year consultation, if UPPCO is unable to store a portion of the current inflows in Hoist Basin during the run-off season.

We continue to work with all Stakeholder's best interest in mind and want to have the ability to offer higher water elevations for the recreation season for all the people choosing to recreate on the Hoist Basin each summer and fall. UPPCO asks that you respond with your comments within 5 work days. If UPPCO does not receive any comments with 5 work days, it will be assumed you have none and we will move forward with the proposed deviations.

Thank you,
-Jarrod Nelson

Jarrod Nelson, Certified Associate Ecologist (ESA)
Environmental Consultant | Upper Peninsula Power Company
Cell: (989)600-5665
Direct: (906)232-1433
Email: jfnelson@uppc.com

March 22, 2016 Agency Meeting Request

Attendees: MDEQ, MDNR, UPPCO

Jarrold F. Nelson

Subject: UPPCO Planned Deviation Request - Operations Discussion
Location: Conference Call

Start: Tue 3/22/2016 9:00 AM
End: Tue 3/22/2016 9:30 AM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Jarrod F. Nelson
Required Attendees: Robert J. Meyers; Virgil E. Schlorke; Kruger, Kyle (DNR) (KRUGERK@michigan.gov); Carpenter, Koren (DEQ) (CarpenterK5@michigan.gov); Burr Fisher; CASEYS@michigan.gov; Shawn Puzen; Kohlhepp, Gary (DEQ) (KOHLHEPPG@michigan.gov)

This meeting is to discuss the planned deviation request (attached) from UPPCO to store water at Hoist Basin in place of driving the basin down to the April start of month target of 1337.5 feet NGVD. The meeting was requested by the MDEQ to discuss operations and is separate of the Annual Agency Meeting and the Dead River Stakeholder's Meeting.

Current Operations from Hoist Basin (as of 1:11 EST 3/21/2016):

- Headwater: 1340.29 feet NGVD (declining)
- Total Plant Outflow: 306 CFS

CONFERENCE LINE INFORMATION:

CONFERENCE NUMBER: (906) 232-1500

ACCESS CODE: 27632955 followed by the # key

For internal UPPCO folks:

CONFERENCE EXTENSION: 1113

ACCESS CODE: 27632955 followed by the # key

March 22, 2016 Agency Meeting Materials

Attendees: MDEQ, MDNR, UPPCO



Upper Peninsula Power Company

Hoist Headwater Planned Deviation Request Meeting:

Tuesday March 22, 2016

Meeting Materials and Notes

FERC Project Number: 10855

Meeting Location: Conference Call

Participants: USFWS, MDNR, MDEQ, UPPCO



Contents

1.0 Introduction	3
2.0 Year-To-Date Operating Trends (Headwater Elevations)	3
2.1 Key Elevations (Hoist and Silver Lake)	4
2.2 Silver Lake:	5
2.3 Hoist Basin	6
3.0 Forecasting (Snowpack/Weather)	7
3.1 Current SWE Model	8
3.2 March 25, 2015 SWE Model	9
3.3 Snowfall Forecast	10
3.4 Extended Forecast	11

APPENDIX A: March 17, 2016 Hoist Headwater Planned Deviation Request

1.0 Introduction:

These notes are being provided at a point of reference for the conference call taking place on March 22, 2016 from 9:00 AM EST to 9:30 AM EST between the resources agencies for the Dead River Project and Upper Peninsula Power Company (UPPCO).

Resource agencies for this project include:

- United States Fish and Wildlife Service (USFWS)
- Michigan Department of Natural Resources (MDNR)
- Michigan Department of Environmental Quality (MDEQ)

The phone conference is being held in order to discuss the operations and requested planned deviation in headwater elevation for Hoist Basin. UPPCO's reasoning for requesting the planned deviation was outlined in the March 17, 2016 E-mail sent the Resource Agencies. IN summary that letter requested the following:

- Store a portion of unexpected inflows in Hoist Basin instead of immediately driving down to April start of month target elevation of 1337.5 feet NGVD
- Plan to store Hoist at approximately 1342-1343 feet NGVD prior to the summer recreation season
- The need to store water is more vital this year due to the unavailability of Silver Lake due to refill requirements driven by FERC Dam Safety to monitor seepage remediation effectiveness

On March 8, 2016, the Upper Peninsula began to receive unseasonably warm weather. This warm weather peaked on March 12, 2016 with a high of 61°F in Marquette County. Higher temperatures and clear conditions resulted in a sharp reduction in snowpack and a corresponding increase in headwater elevations at the Hoist Basin.

2.0 Year-To-Date Operations Trends (Headwater Elevations):

This section summarizes the headwater elevation trends at the both the Silver Lake and Hoist Developments on the Dead River Project. Silver Lake will be unavailable to augment Hoist Basin during the summer 2016 due to required monitoring of the embankment seepage remediation project.

- **Current Headwater Elevation at Silver Lake as of March 22, 8:01 AM EST: 1476.45 feet**
- **Current Headwater Elevation at Hoist Basin as of March 22, 8:01 AM EST: 1340.29 feet**

2.1 Key Elevations (Hoist and Silver Lake):

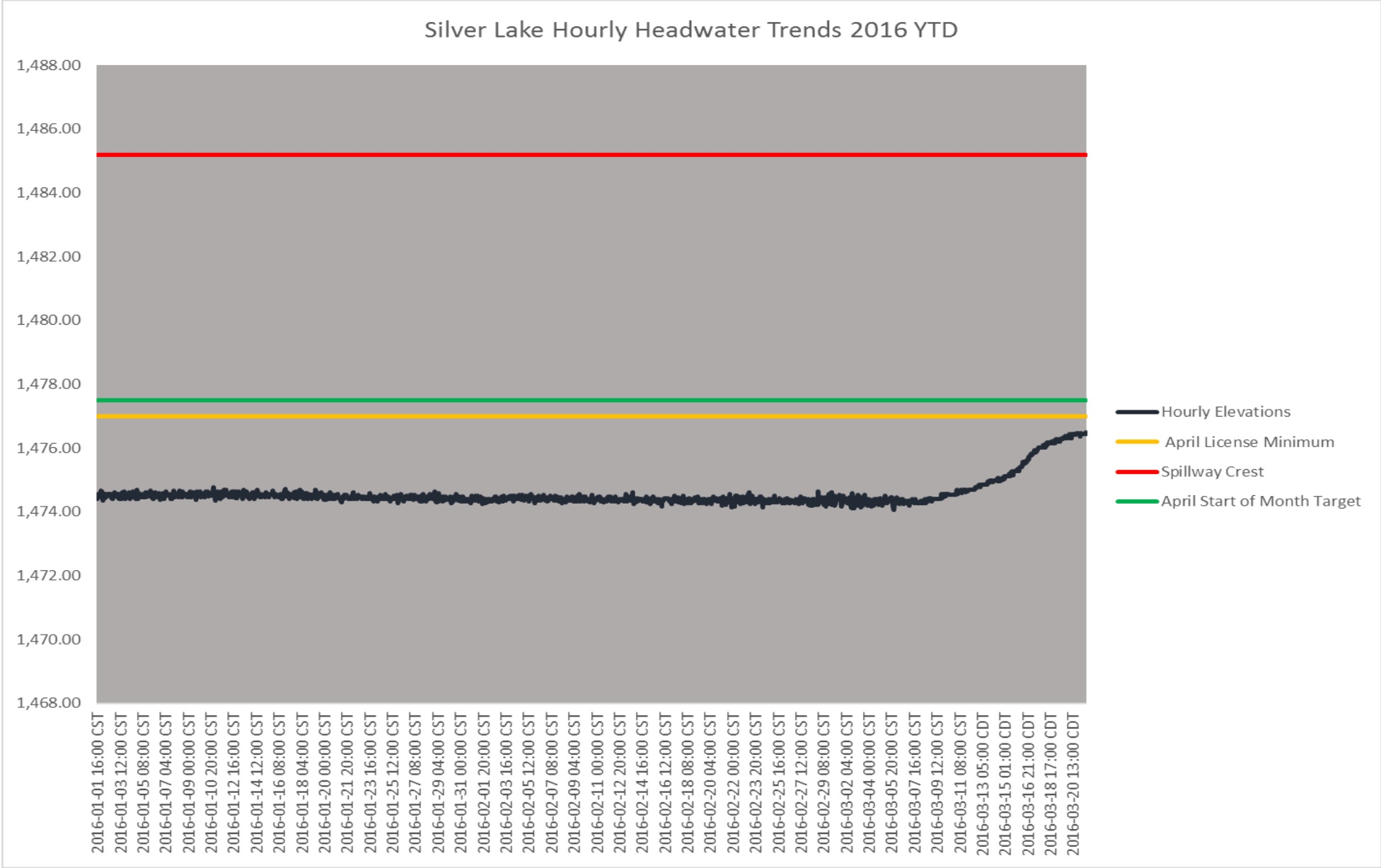
Table 1. Key Elevations at Silver Lake Storage Basin

Elevation	Explanation
1476.45	Current headwater elevation
1477.50	April start of month target elevation
1477.00	April minimum elevation
1485.20	Spillway crest elevation

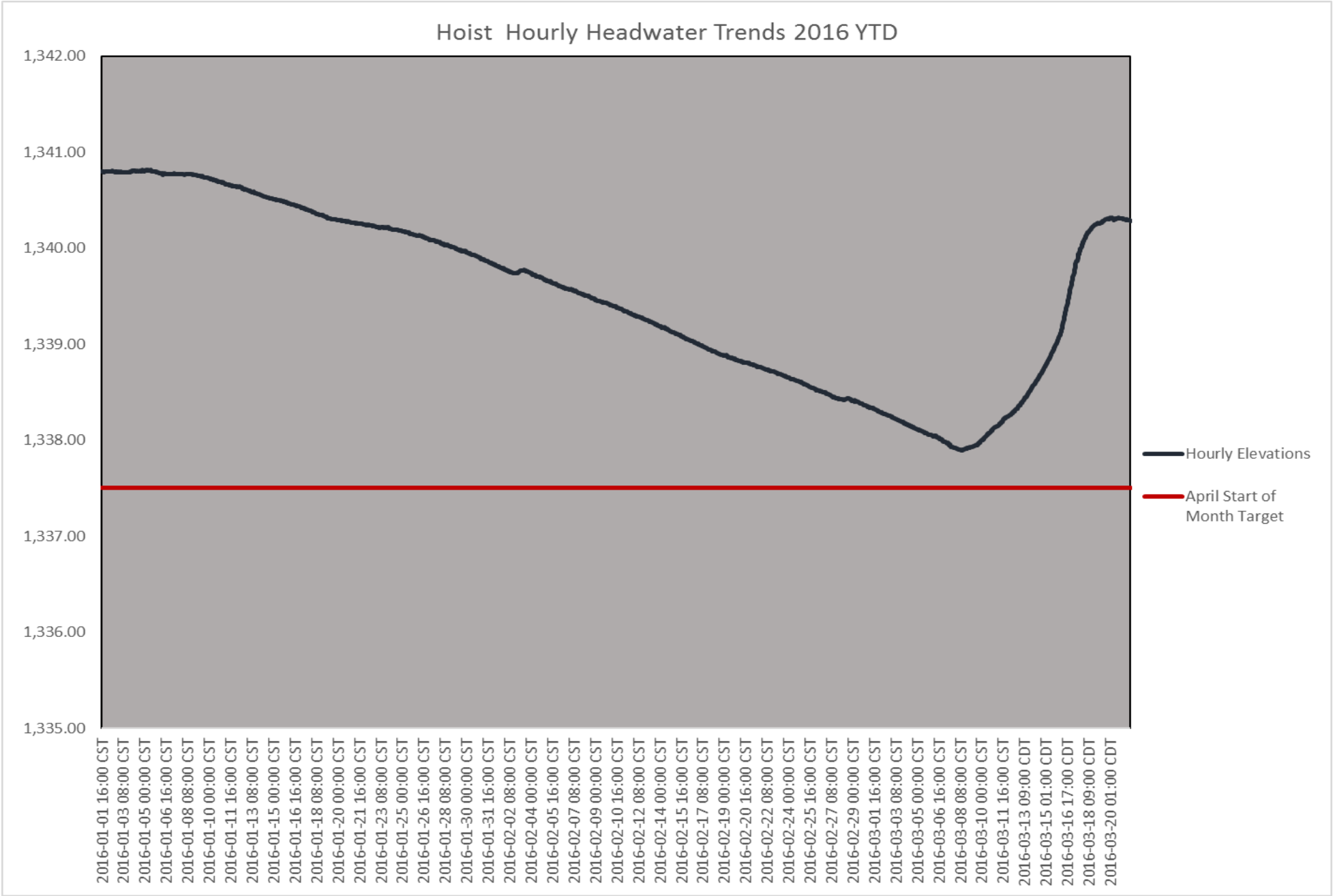
Table 2. Key Elevations at Hoist Basin

Elevation	Explanation
1340.29	Current headwater elevation
1337.5	April start of month target elevation
1337.0	April minimum elevation
1342-1343	Proposed storage elevation range prior to summer 2016
1344.6	Ogee spillway crest elevation
1355.0	Rights of inundation of UPPCO per 1999 Water Power Easement Agreement as deeded under legal description signed

2.2 2016 Silver Lake Headwater Elevation Trends Year-to-Date:



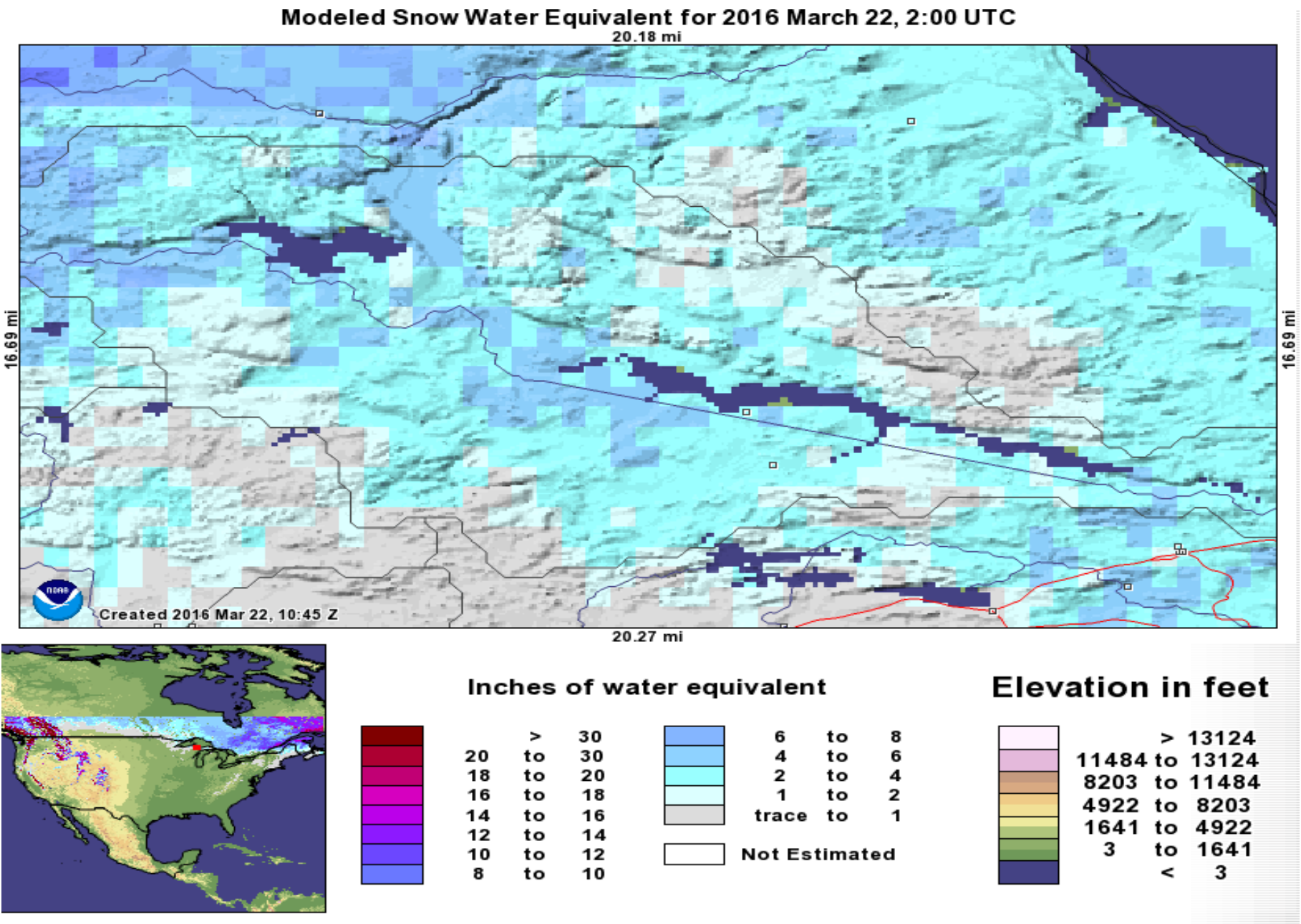
2.3 2016 Hoist Basin Headwater Elevation Trends Year-to-Date:



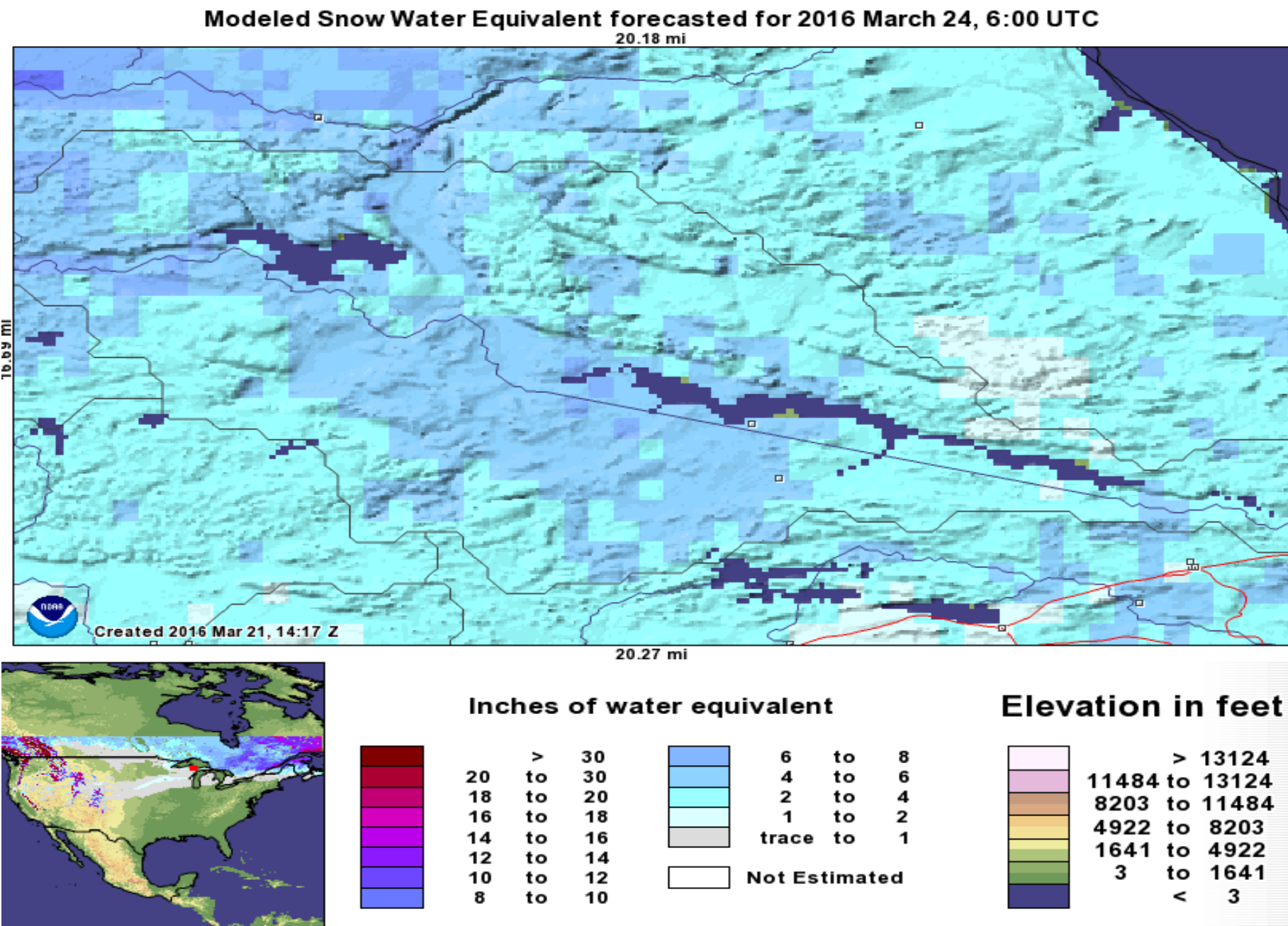
3.0 Forecasting (Snowpack/Weather):

Forecasting information is derived from the National Oceanic and Atmospheric Administration (NOAA) National Operational Hydrologic Remote Sensing Center (NOHRSC) for snow water equivalency modeling. Weather forecasting and data is derived from the National Weather Service (NWS). Extended forecasts are from Weather Underground.

3.1 NOHRSC Modeled Snow Water Equivalent for March 22, 2016



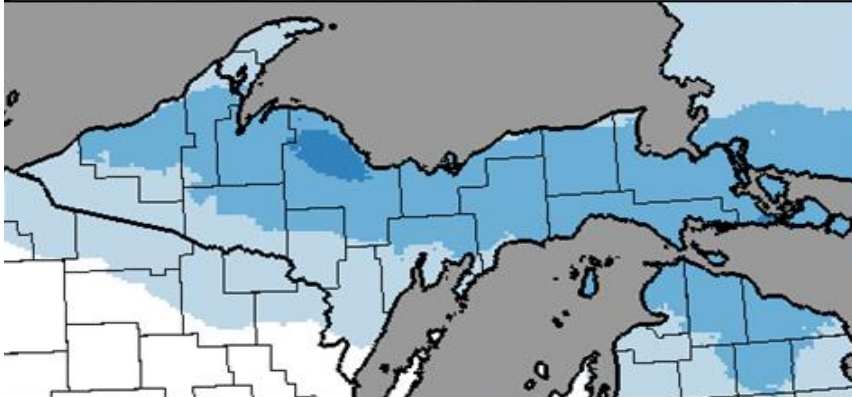
3.2 NOHRSC Modeled Snow Water Equivalent for March 25, 2016



Snow Today and Again Wednesday into Thursday

Forecast Snow Totals

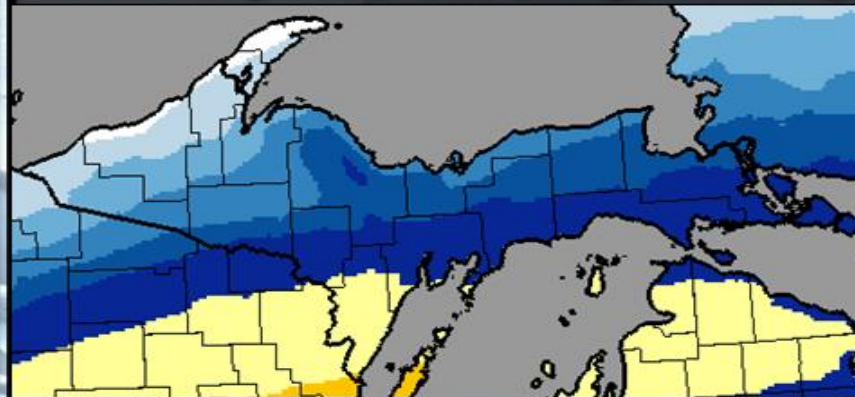
Today



Highs: 33 to 42

Forecast Snow Totals

Wednesday Afternoon through Thursday



Highs: 27 to 37

Lows: 14 to 24

**Periods of light snow
will slowly diminish
this afternoon**



**Moderate to heavy snow is
possible Wed afternoon into
Thu along with gusty winds,
mainly over the south. Still
some model disagreement.**



National Weather Service – Marquette, Michigan

www.weather.gov/up

 **NWSMarquette**

Created: 3/22/2016 5:32 AM

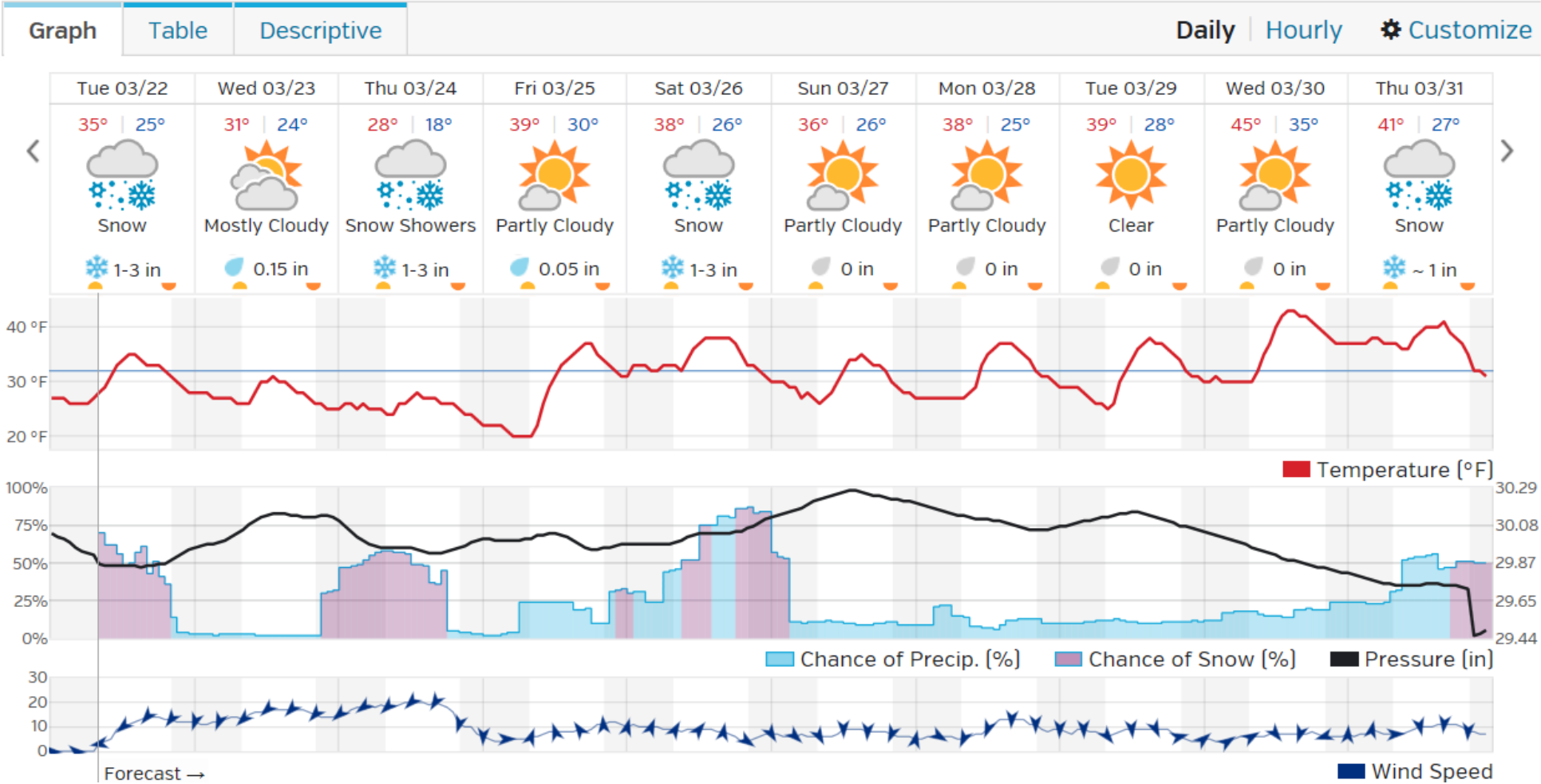
 **@NWSMarquette**



Published on: 03/22/2016 at 5:40AM

3.4 Weather Underground Forecast

10-Day Weather Forecast



APPENDIX A:

**March 17, 2016 Hoist Headwater Planned Deviation
Request**

Jarrold F. Nelson

From: Jarrod F. Nelson
Sent: Thursday, March 17, 2016 3:27 PM
To: Kruger, Kyle (DNR) (KRUGERK@michigan.gov); Carpenter, Koren (DEQ) (CarpenterK5@michigan.gov); 'gmensch@kbic-nsn.gov'; Jim Grundstrom; Burr Fisher
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Thank you,
-Jarrod Nelson

Jarrold Nelson, Certified Associate Ecologist (ESA)
Environmental Consultant | Upper Peninsula Power Company
Cell: (989)600-5665
Direct: (906)232-1433
Email: jfnelson@uppc.com

March 23, 2016 MDEQ Response

Jarrold F. Nelson

From: Carpenter, Koren (DEQ) <CarpenterK5@michigan.gov>
Sent: Wednesday, March 23, 2016 8:44 AM
To: Jarrod F. Nelson; Kruger, Kyle (DNR); 'gmensch@kbic-nsn.gov'; Jim Grundstrom; Burr Fisher
Cc: Kohlhepp, Gary (DEQ); Klemans, Diana (DEQ); Virgil E. Schlorke; Robert J. Meyers
Subject: RE: Hoist Basin - Request for Headwater Deviations

Hi Jarrod,

The MDEQ concurs with allowing the Hoist Basin to fill to headwater elevations of 1342-1343 feet NGVD, given the early snow runoff, low remaining snow-water equivalent, and the inability to use Silver Lake as a water source in 2016. We request that you manage for 1342 feet, recognizing that heavy spring precipitation could result in levels slightly above 1342.

Please provide MDEQ monthly status updates of the current elevations in the basins. We appreciate UPPCO's attempt to be proactive in this situation.

Let me know if you have further questions or concerns.

Regards,

Koren

Koren Carpenter
Senior Environmental Engineer
MDEQ-Water Resources Division
517 284-5541

From: Jarrod F. Nelson [mailto:JFNelson@uppc.com]
Sent: Thursday, March 17, 2016 3:27 PM
To: Kruger, Kyle (DNR); Carpenter, Koren (DEQ); 'gmensch@kbic-nsn.gov'; Jim Grundstrom; Burr Fisher
Cc: Kohlhepp, Gary (DEQ); Klemans, Diana (DEQ); Virgil E. Schlorke; Robert J. Meyers
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Thank you,
-Jarrod Nelson

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Direct: (906)232-1433
Email: jfnelson@upppo.com

March 23, 2016 DRCI Response

Jarrold F. Nelson

From: Jarrod F. Nelson
Sent: Wednesday, March 23, 2016 4:06 PM
To: 'Jim Grundstrom'
Subject: RE: Message from KMBT_283

Thank you Jim. UPPCO appreciates the opportunity to work with the DRCI and all stakeholders to ensure that the resource is utilized with all parties' best interests in mind. As always, please feel free to contact me anytime.

-Jarrod

Jarrold Nelson, Certified Associate Ecologist (ESA)
Environmental Consultant | Upper Peninsula Power Company
Cell: (989)600-5665
Direct: (906)232-1433
Email: jfnelson@uppc.com

From: Jim Grundstrom [mailto:jimgrundstrom@freichevy.com]
Sent: Wednesday, March 23, 2016 11:16 AM
To: Jarrod F. Nelson <JFNelson@uppc.com>; KrugerK@michigan.gov; gmensch (gmensch@kbic-nsn.gov) <gmensch@kbic-nsn.gov>; Jim Grundstrom <jimgrundstrom@freichevy.com>; Burr_Fisher@fws.gov; KohlheppG@michigan.gov; 'klemansd@michigan.gov' <klemansd@michigan.gov>; Virgil E. Schlorke <VESchlorke@uppc.com>; robert meyers <rjmmqt@charter.net>
Cc: Darryll Sundberg <dsund1971@msn.com>; Gary J. Goodman <gjgoodma@gmail.com>; Bruce Turino (Turinob@aol.com) <Turinob@aol.com>; Bruce Bussone (brucebussone@yahoo.com) <brucebussone@yahoo.com>; David Grigg <maddogoutnorth@yahoo.com>; Joe Ervin <joeervin1@outlook.com>
Subject: FW: Message from KMBT_283

Jarrold, good morning to you. In the attachment is a copy of our letter of support for the UPPCO refill plan as you documented it most recently. Thank you for the opportunity to provide our comments in this critical year coming up without Silver Lake able to supplement the Hoist Basin.

Jim Grundstrom
Dead River Campers, Inc., President

From: 2300@scannedfile.com [mailto:2300@scannedfile.com]
Sent: Thursday, March 24, 2016 10:37 AM
To: Jim Grundstrom <jimgrundstrom@freichevy.com>
Subject: Message from KMBT_283

March 22, 2016 DRCI Board Letter



Dead River Campers, Inc.

P.O. Box 323

Ishpeming, Michigan 49849

Office Phone: 906-485-1975

Email: drcicampers@gmail.com

www.deadrivercampersinc.com

March 22, 2016

Mr. Jarrod F. Nelson
Environmental Consultant
Upper Peninsula Power Company
1002 Harbor Hills Drive
Marquette, MI 49855

RE: Hoist Basin - Request for Headwater Deviations

Dear Mr. Nelson:

At the Dead River Campers Board of Directors meeting on March 22, 2016 a motion was passed unanimously to support UPPCO's request for our concurrence to deviate from its normal operations of striving toward a 1337.5 feet NGVD April start of month target elevation, to allowing the Hoist Basin to fill to headwater elevations between approximately 1342-1343 feet NGVD.

We understand there will be a meeting of Dead River Stakeholders on April 11th, 2016 at 10 AM to discuss these changes. We do appreciate UPPCO's willingness to continue to work with all Stakeholder's in these matters and in keeping the best interests of DRCI in mind to continue to provide target water elevations for the recreation season for the DRCI Stakeholders as well as for many other people that use the Hoist Basin for summer recreation purposes.


James Grundstrom, President

cc: DRCI Board of Directors

**The USFWS Did Not Respond with Any
Comments**