

Summary of Lower Platte & Elkhorn Rivers

Initial Ice Report 3/3/2019 through 3/8/2019:

Ice Thickness Summary (3/5/2019) The average ice thickness is 15.3 inches on the Platte River, near the dike on the Werner Property. Measurements at the end of this report.

ICE JAMMING AT THIS TIME on the East end of the State is at the confluence of the Loup and Platte rivers near Columbus. Flooding in the lowland areas. Platte River at Grand Island I 80 interchange has low land flooding. Information: Due to Ice Jamming, and the Middle Loup River at Rockville. North Platte River at Lisco, Lewellen.

Elkhorn

PM6 - Douglas County, on the Elkhorn Hwy 64

Latitude: 41:17:30 Longitude: 96:17:0 (Wednesday, March 6, 2019 @ 9:40AM CDT)

Temperature was 13°F. The average wind speed was 5 mph (SE). It was estimated that it was less than 12 feet bank full at this location. The channel remains N/A%. It was noted: "

Elkhorn

PM2 - Douglas County, on the Elkhorn Hwy 36

Latitude: 41:22:45 Longitude: 96:18:9 (Wednesday, March 6, 2019 @ 10:00AM CDT)

Temperature was 13°F. The average wind speed was 5 mph (SE). It was estimated that it was less than 12 feet bank full at this location. The channel remains 50%. It was noted: "

Elkhorn

PM3 - Douglas/Saunders County, on the Elkhorn Hwy 92

Latitude: 41:13:51 Longitude: 96:30:8 (Wednesday, March 6, 2019 @ 11:00AM CDT)

Temperature was 22°F. The average wind speed was 5 mph (SE). It was estimated that it was less than N/A feet bank full at this location. The channel remains 15%. It was noted: "At Stanton ice is starting to form up again we have runing water under what ice we have, if the cold hangs on the river will be froze up by sunday morning. Hwy 15 at Pilger bridge solid ice with snow on top no water showing. Water is flowing under the ice, ice aprox. 4 to 8 inches. have warm springs above Stanton which are flowing into the Elkhorn."

Elkhorn

E4 - Dodge County, on the Elkhorn Hwy 91 near Nickerson

Latitude: 41:32:19 Longitude: 96:27:17 (Wednesday, March 6, 2019 @ 13:45PM CDT)

Temperature was 28°F. The average wind speed was 5 mph (SE). It was estimated that it was less than 11.5 feet bank full at this location. The channel remains N/A%. It was noted: "

Elkhorn

E5 - Dodge County, on the Elkhorn Hwy 77 near Winslow

Latitude: 41:37:13 Longitude: 96:16:41 (Wednesday, March 6, 2019 @ 14:01PM CDT)

Temperature was 28°F. The average wind speed was 0 mph (N/A). It was estimated that it was less than 11.5 feet bank full at this location. The channel remains N/A%. It was noted: "





Platte/Elkhorn

E1 – Sarpy County, Confluence of Platte and Elkhorn Rivers

Latitude: 41:8:0 Longitude: 96:19:0 (Wednesday, March 6, 2019 @ 08:40AM CDT)

Temperature was 9°F. The average wind speed was 5 mph (SE). It was estimated that it was less than 11 feet bank full at this location. The channel remains N/A%. It was noted: “

Platte

PM4 - Douglas County, on the Platte Hwy 92

Latitude: 41:14:2 Longitude: 96:21:55 (Wednesday, March 6, 2019 @ 10:30AM CDT)

Temperature was 17°F. The average wind speed was 4 mph (SW). It was estimated that it was less than 1 foot bank full at this location. The channel remains N/A%. It was noted: " No change to Platte River at our location. still a tiny sliver open like last week in East channel."

PM4 - Douglas County, on the Platte Hwy 92

Latitude: 41:14:2 Longitude: 96:21:55 (Wednesday, March 6, 2019 @ 9:10AM CDT)

Temperature was 10°F. The average wind speed was 5 mph (SE). It was estimated that it was less than 2 feet bank full at this location. The channel remains N/A%. It was noted: “

Platte

PM7 - Douglas County, on the Platte Union Dike, 1/4 mile west of Hwy 275 & 3.1 miles upstream of Hwy 64

Latitude: 41:21:40 Longitude: 96:25:0 (Wednesday, March 6, 2019 @ 10:15 AM CDT)

Temperature was 15°F. The average wind speed was 5 mph (SE). It was estimated that it was 2 feet bank full at this location. The channel remains N/A%. It was noted: " There is some water on top of ice on the far west channel."

Platte

LS1 - Saunders County, on the Platte Hwy 6 near Ashland

Latitude: 41:3:41 Longitude: 96:19:35 (Tuesday, March 5, 2019 @ 1:35PM CDT)

Temperature was 20°F. The average wind speed was 0 mph (none). It was estimated that it was 2 feet bank full at this location. The channel remains N/A%. It was noted: “Open leads on both sides of channel remain.”

Platte

LS2 - Cass County, on the Platte Hwy 50 at Louisville

Latitude: 41:0:47 Longitude: 96:9:27 (Tuesday, March 5, 2019 @ 2:10PM CDT)

Temperature was 22°F. The average wind speed was 0 mph (None). It was estimated that it was 4 feet bank full at this location. The channel remains 25%. It was noted: “ Some water flowing on top of the ice.”

Platte

LN1 – Saunders/Dodge County, on the Platte Hwy 77 at Fremont

Latitude: 41:21:14 Longitude: 96:30:9 (Wednesday, March 6, 2019 @ 15:52 PM CDT)

Temperature was 32°F. The average wind speed was 5 mph (SE). It was estimated that it was less than 11 feet bank full at this location. The channel remains N/A%. It was noted:”

Platte River-Fremont-Looking West



Platte River-Fremont-Looking East



Platte

LN2 – Saunders/Dodge County, on the Platte Hwy 79 at North Bend

Latitude: 41:27:7 Longitude: 96:46:30 (Wednesday, March 6, 2019 @ 15:28PM CDT)

Temperature was 32°F. The average wind speed was 0 mph (N/A). It was estimated that it was less than 5.8 feet bank full at this location. The channel remains N/A%. It was noted: “

Memorandum

To: File 536, 528

From: Bill Warren, O&M Superintendent

Date: March 5, 2019

Re: Platte River Ice Thickness Measurement Along Union Dike

On March 5, 2019, District staff performed ice thickness measurements on the Platte River. The measurements were taken perpendicular to the river flow, near the dike on the Werner Property, at approximately Station 155+00 (1.1 miles upstream of Highway 64; location is known as 10 jetty site).

A gas-powered auger was used to drill the holes. The location of the holes on the table below were measured (stepped off) from the east bank of the Platte River

Distance From East Bank (Feet)	Ice Thickness (Inches)	Depth From Top Of Ice To River Bed (Inches)
25	3+12=15*	42
50	6+10=16*	31
75	3+13=16*	41
100	2+12=14*	34

*Ice thickness consists of 2 layers of ice separated by 1 to 3 inches of water. The first number is the top ice layer thickness and the second number is the bottom ice layer thickness.

There is 3 to 5 inches of snow on top of ice layer. The entire river has an ice cover, but only the 0 to 100 ft. width of ice from the east bank of the river is considered safe enough to conduct borings. The west bank is approximately 925 feet west of 100 ft. boring.

The average ice thickness is **15.3 inches**.

Cc: John Winkler, Marlin Petermann, Martin Cleveland, Amanda Grint, P-MRNRD
 Jill Burmester, NEMA
 Katie Ringland, NDNR
 David Pearson, NWS
 Matt Krajewski and Roger Kay, USACE

File: 536, 528 - Platte River Ice Thickness at 3/5/19

