

Summary of Lower Platte & Elkhorn Rivers

Initial Ice Report 1/20/2018 through 1/26/2018:

Ice Thickness Summary (1/25/2018)

Papio-Missouri NRD performed ice measurements the 18th and the 25th of January, the later report is attached to the end of this summary report. Borings were done perpendicular to the river flow near the Union Dike on the Werner Property, apprx Station 155+00, known as 10 Jetty site. Average ice thickness was 15.1" down from 16.0" last week. Expecting more melting to occur this weekend with the above seasonal temperatures.

NO ICE JAMMING AT THIS TIME on the East end of the State.

Elkhorn

PM6 - Douglas County, on the Elkhorn Hwy 64

Latitude: 41:17:30 Longitude: 96:17:0 (Wednesday, January 24, 2018 @ 9:15AM CDT)

Temperature was 17°F. The average wind speed was 5 mph (NW). It was estimated that it was less than 10 feet bank full at this location. The channel remains 10%. It was noted: "Open channel 30 ft. wide and about 400 ft. long south of bridge."

Elkhorn

PM2 - Douglas County, on the Elkhorn Hwy 36

Latitude: 41:22:45 Longitude: 96:18:9 (Wednesday, January 24, 2018 @ 9:30AM CDT)

Temperature was 18°F. The average wind speed was 5 mph (NW). It was estimated that it was less than 10 feet bank full at this location. The channel remains 10%. It was noted: "Elkhorn has open channel 20 ft. wide and 300 ft. long."

Platte

PM4 - Douglas County, on the Platte Hwy 92

Latitude: 41:14:2 Longitude: 96:21:55 (Wednesday, January 24, 2018 @ 9:00AM CDT)

Temperature was 16°F. The average wind speed was 5 mph (NW). It was estimated that it was less than 4 feet bank full at this location. The channel remains NA%. It was noted: "Ice and snow cover 100% for both east and west channel."

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, January 24, 2018 @ 9:45AM CDT)

Temperature was 17°F. The average wind speed was 5 mph (NW). It was estimated that it was less than 3 feet bank full at this location. The channel remains NA%. It was noted: "

Platte

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

Latitude: 41:3:41 Longitude: 96:19:35 (Thursday, January 25, 2018 @ 09:00AM CDT)

Temperature was 25°F. The average wind speed was 0 mph (0). It was estimated that it was less than 3ft feet bank full at this location. The channel remains 15%. It was noted: "

Platte

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

Latitude: 41:0:47 Longitude: 96:9:27 (Thursday, January 25, 2018 @ 09:35AM CDT)

Temperature was 28°F. The average wind speed was 0 mph (0). It was estimated that it was less than 4.5ft feet bank full at this location. The channel remains 25%. It was noted: "

Platte

P9 - Sarpy County, on the Platte Hwy 6 & Platte River Bridge (Linoma)

Latitude: 41:3:42 Longitude: 96:19:31 (Wednesday, January 24, 2018 @ 2:32PM CDT)

Temperature was 41°F. The average wind speed was 5.8 mph (SE). It was estimated that it was less than 3 feet bank full at this location. The channel remains 25%. It was noted: " (Following picture by Jesse Eret, Sarpy Co EMA)



Platte

P7 - Sarpy County, on the Platte Hwy 31 at 204 St.

Latitude: 41:1:27 Longitude: 96:15:29 (Wednesday, January 24, 2018 @ 2:47PM CDT)

Temperature was 43.2°F. The average wind speed was 5 mph (SW). It was estimated that it was less than 2 feet bank full at this location. The channel remains 10%. It was noted: " (Following Picture by Jesse Eret, Sarpy Co EMA)



Platte

P10 - Sarpy County, on the Platte Hwy 50 & Platte River Bridge

Latitude: 41:0:53 Longitude: 96:9:28 (Wednesday, January 24, 2018 @ 3:03PM CDT)

Temperature was 42.7°F. The average wind speed was 5 mph (SW). It was estimated that it was less than 1 feet bank full at this location. The channel remains 90%. It was noted: " (Following Picture by Jesse Eret, Sarpy Co EMA)



Platte

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

Latitude: 41:27:7 Longitude: 96:46:30 (Thursday, January 25, 2018 @ 12:10PM CDT)

Temperature was 35°F. The average wind speed was 5 mph (SE). It was estimated that it was less than 6 feet bank full at this location. The channel remains NA%. It was noted: "At Hwy 79, North Bend, there's a small portion of open water on north bank up and downstream of the bridge. The ice is smooth with thin snow cover with signs of melting. There are small areas of gray colored ice and water on top. "

Platte

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

Latitude: 41:21:14 Longitude: 96:30:9 (Thursday, January 25, 2018 @ 1:10PM CDT)

Temperature was 40°F. The average wind speed was 5 mph (SE). It was estimated that it was less than 6 feet bank full at this location. The channel remains NA%. It was noted: "At Fremont, Hwy 77, there's a small open channel on the north bank up and downstream of the Hwy bridge. The ice is smooth with thin snow cover. Some standing water on the ice near center of the river. Downstream of bridge there's an area that is very gray with water on top. At the tail end of Woodcliff there's some open channel along the south bank. "

Platte/Elkhorn

E1 - Sarpy County, on the Platte/Elkhorn Confluence of Platte and Elkhorn Rivers

Latitude: 41:8:0 Longitude: 96:19:0 (Wednesday, January 24, 2018 @ 8:20AM CDT)

Temperature was 13°F. The average wind speed was 5 mph (NW). It was estimated that it was less than 12 feet bank full at this location. The channel remains 5%. It was noted: "Open channel from confluence 20-30 ft. wide and 800 ft. long."

Memorandum

To: File 536, 528

From: Bill Warren, O&M Superintendent

Date: January 25, 2018

Re: Platte River Ice Thickness Measurement Along Union Dike

On January 25, 2018, the writer 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. The snow cover on the ice varied from 2" to 3" in depth.

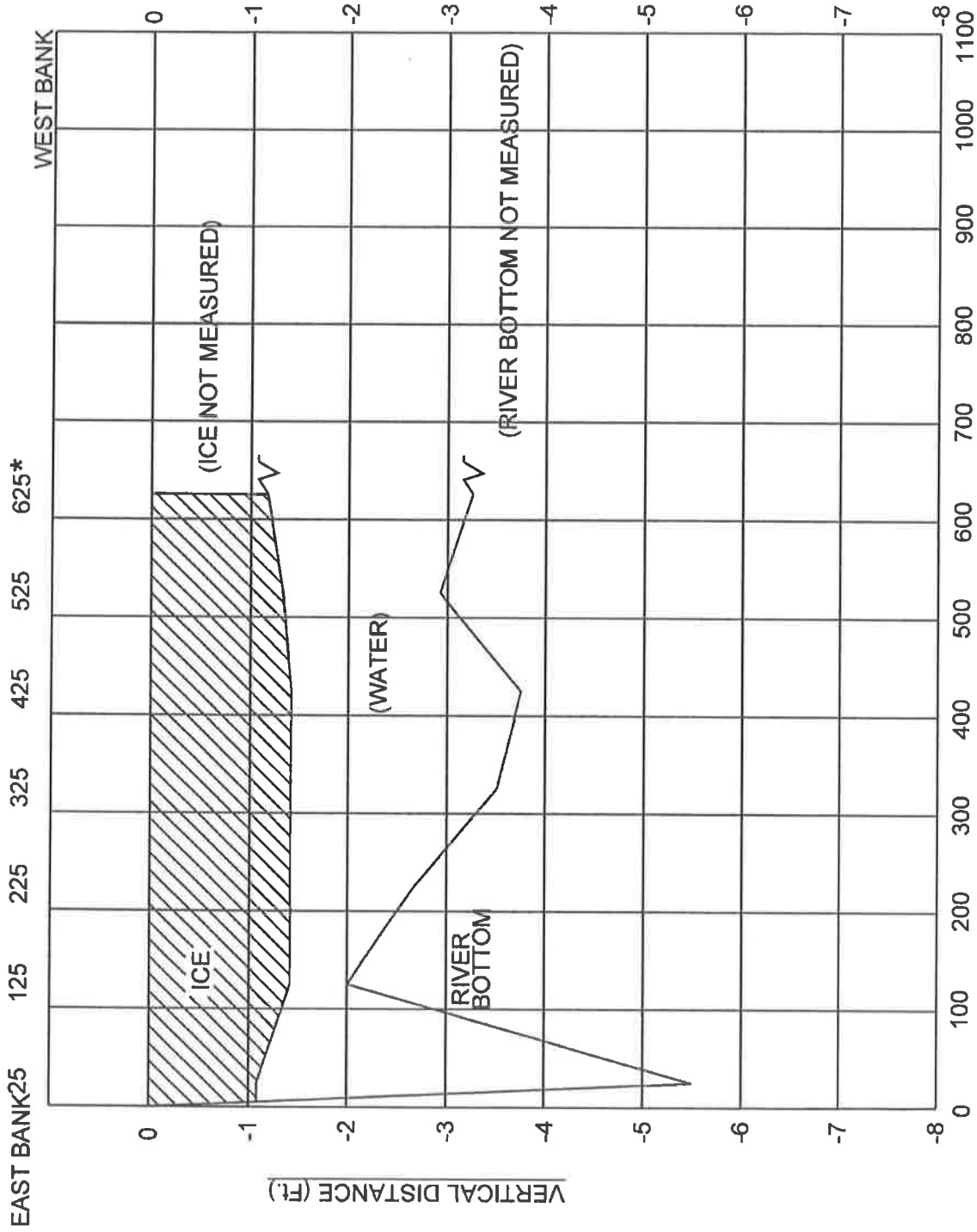
Distance From East Bank (Feet)	Ice Thickness (Inches)	Depth From Top Of Ice To River Bed (Inches)
25	13	66
125	17	24
225	17	32
325	17	42
425	15	45
525	14	35
625	13	39

*The entire river has an ice cover, but only the 0 to 625 ft. width of ice from the east bank of the river is considered safe enough to conduct borings. The west bank is approximately 400 feet west of 625 ft. boring.

The average ice thickness is **15.1 Inches**.

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

PLATTE RIVER: 1.1 Miles Upstream of Hwy. 64 (STA. 155+00, UNION DIKE)
(Werner Property)



*Hole location is approx. 400' from the west bank.
 January 25th, 2018

HORIZONTAL DISTANCE (Ft.)

WEST
 Looking Downstream

