

Summary of Lower Platte & Elkhorn Rivers

Initial Ice Report 2/3/2018 through 2/9/2018:

Ice Thickness Summary (2/1/2018)

Papio-Missouri NRD performed ice measurements on February 8th, their memo 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 14.3 up from 13.6" last week. With cold temperatures in the forecast ice will likely build over this next week.

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, February 7, 2018 @ 9:00AM CDT)

Temperature was 10°F. The average wind speed was 15 mph (NW). It was estimated that it was less than 10 feet bank full at this location. The channel remains NA%. It was noted: "There is an open channel about 50 ft. wide both upstream and downstream of the bridge about 500-600 ft. long."

Elkhorn

Latitude: 41:22:45 Longitude: 96:18:9 (Wednesday, February 7, 2018 @ 9:20AM CDT)

Temperature was 9°F. The average wind speed was 15 mph (NW). It was estimated that it was less than 10 feet bank full at this location. The channel remains NA%. It was noted: "There is an open channel under bridge about 20 ft. wide by 200 ft. long." PM2 - Douglas County, on the Elkhorn Hwy 36

Elkhorn

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

Latitude: 41:13:51 Longitude: 96:16:41 (Wednesday, February 7, 2018 @ 10:00AM CDT)

Temperature was 11°F. The average wind speed was 15 mph (NW). It was estimated that it was less than 10 feet bank full at this location. The channel remains NA%. It was noted: "There is an open channel north and south of bridge about 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, February 7, 2018 @ 8:40AM CDT)

Temperature was 10°F. The average wind speed was 15 mph (NW). It was estimated that it was less than 4 feet bank full at this location. The channel remains NA%. It was noted: "East channel is 100% ice covered and west side has a 50 ft. wide by 1000 ft. long open 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, February 7, 2018 @ 9:35AM CDT)

Temperature was 14°F. The average wind speed was 15 mph (0). 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 (Monday, February 5, 2018 @ 11:00AM CDT)

Temperature was 13°F. The average wind speed was 10 mph (SE). It was estimated that it was less than 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 (Monday, February 5, 2018 @ 11:25AM CDT)

Temperature was 13°F. The average wind speed was 8 mph (S). It was estimated that it was less than 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, February 7, 2018 @ 01:10PM CDT)

Temperature was 16.9°F. The average wind speed was 1.8 mph (NW). It was estimated that it was less than 3 feet bank full at this location. The channel remains 20%. 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, February 7, 2018 @ 1:33PM CDT)

Temperature was 21.7°F. The average wind speed was 1 mph (SW). It was estimated that it was less than 2 feet bank full at this location. The channel remains 5%. 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, February 7, 2018 @ 01:43PM CDT)

Temperature was 17°F. The average wind speed was 3 mph (W). It was estimated that it was less than 2 feet bank full at this location. The channel remains 90%. It was noted: " (Following Picture by Jesse Eret, Sarpy Co EMA)



Platte/Elkhorn

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

Latitude: 41:8:0 Longitude: 96:19:0 (Wednesday, February 7, 2018 @ 8:40AM CDT)

Temperature was 10°F. The average wind speed was 15 mph (NW). It was estimated that it was less than 12 feet bank full at this location. The channel remains NA%. It was noted: " open channel from confluence about 40-100 ft. wide and 1000 ft. long "

Memorandum

To: File 536, 528

From: Bill Warren, O&M Superintendent

Date: February 8, 2018

Re: Platte River Ice Thickness Measurement Along Union Dike

On February 8, 2018, 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	13	74
125	16	26
225	17	26
325	17	53
425	13	41
525	13	39
625	11	77

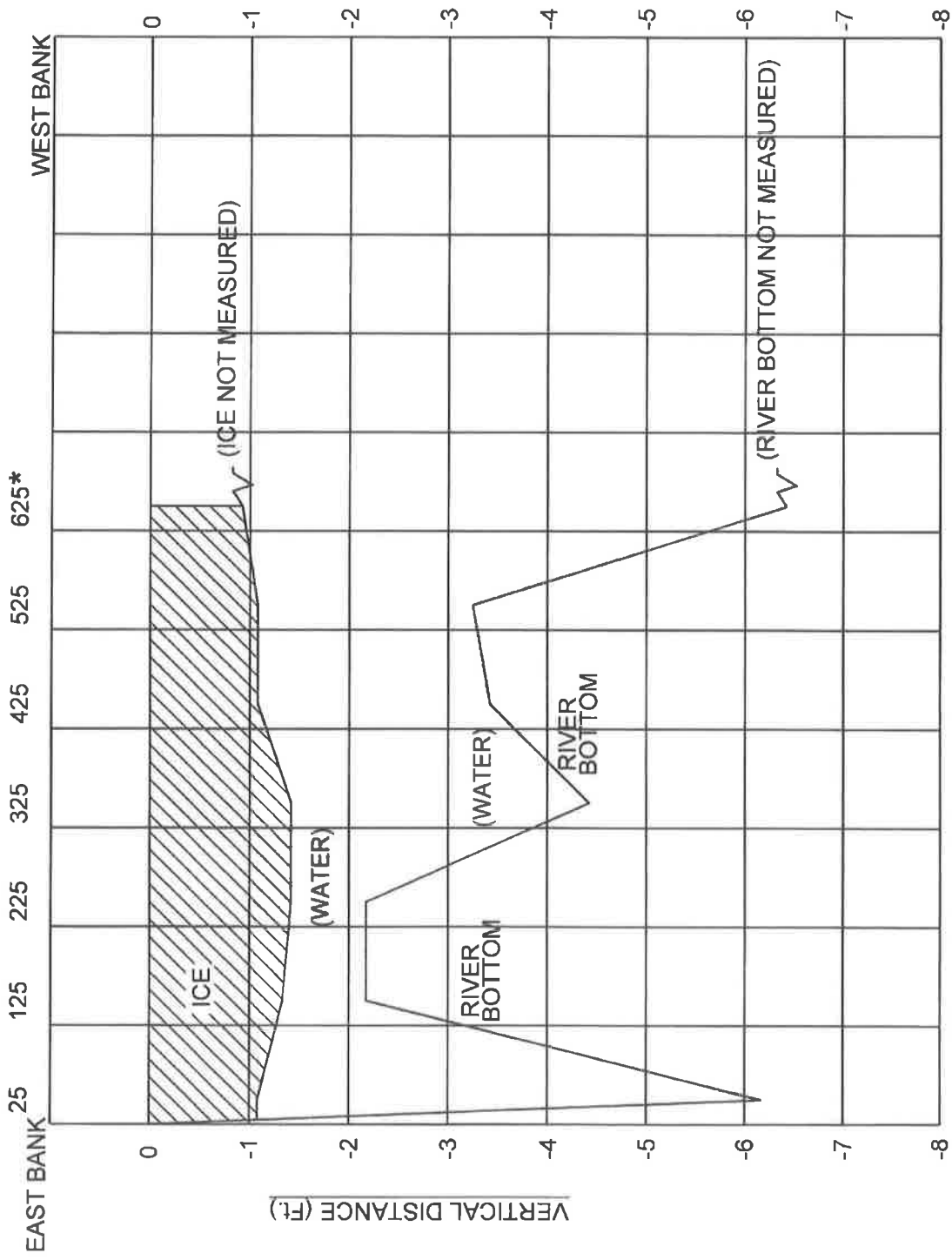
*The entire river has an ice cover with about 3" of snow depth, but only the 0 to 625 ft. width of ice from the east bank of the river is considered safe enough to conduct borings. The west bank is approximately 400 feet west of 625 ft. boring.

The average ice thickness is **14.3 inches**.

(Previous 2018 average ice thickness: Jan. 4 – 11.0"; Jan. 18 – 16.0"; Jan. 25 – 15.1"; Feb. 1 – 13.6")

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.
 February 8th, 2018

HORIZONTAL DISTANCE (Ft.)



PAPIO-MISSOURI RIVER
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