

Summary of Lower Platte & Elkhorn Rivers

Initial Ice Report 2/10/2018 through 2/16/2018:

Ice Thickness Summary (2/15/2018)

Papio-Missouri NRD performed ice measurements on February 15th, 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 15.1 up from 14.3" last week. With moderate to warmer temperatures expected ice thickness may lessen this next week.

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

Elkhorn stations not reporting this week.

Platte

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

Latitude: 41:3:41 Longitude: 96:19:35 (Wednesday, February 14, 2018 @ 11:50AM CDT)

Temperature was 45°F. The average wind speed was 7 mph (S). 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 (Wednesday, February 14, 2018 @ 11:20AM CDT)

Temperature was 45°F. The average wind speed was 6 mph (S). It was estimated that it was less than 4.5ft feet bank full at this location. The channel remains 25%. It was noted: "Channel 80% open at upstream side of bridge, 25% open everywhere else."

Platte

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

Latitude: 41:3:42 Longitude: 96:19:31 (Wednesday, February 14, 2018 @ 01:39PM CDT)

Temperature was 47°F. The average wind speed was 6 mph (S). 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 14, 2018 @ 1:56PM CDT)

Temperature was 47°F. The average wind speed was 6 mph (S). 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 14, 2018 @ 02:04PM CDT)

Temperature was 47°F. The average wind speed was 6 mph (S). It was estimated that it was less than 2 feet bank full at this location. The channel remains 95%. It was noted: " (Following Picture by Jesse Eret, Sarpy Co EMA)



Platte

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

Latitude: 41:21:14 Longitude: 96:30:9 (Thursday, February 15, 2018 @ 1:00PM CDT)

Temperature was 40°F. The average wind speed was 10 mph (NE). It was estimated that it was less than 8 feet bank full at this location. The channel remains NA%. It was noted: "At Fremont, Hwy 77, the ice is smooth and snow covered. There is a small open channel on the north bank up and down stream of the bridge. The water from the channel fans out below the bridge and has flowed on top of the ice making the snow and ice gray in color. Also a circular area downstream in the center of the river that's gray in color with some water on top. "

Platte

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

Latitude: 41:27:7 Longitude: 96:46:30 (Thursday, February 15, 2018 @ 1:30PM CDT)

Temperature was 39°F. The average wind speed was 10 mph (N). It was estimated that it was less than 8 feet bank full at this location. The channel remains NA%. It was noted: "At North Bend and Hwy 79 the ice is smooth and snow covered. Small open channel on the north bank up and down stream of the bridge. Small areas or pockets up and downstream on the river that look gray in color. "

Platte/Elkhorn

E1 - Sarpy County, on the Platte/Elkhorn Confluence of Platte and Elkhorn Rivers –NOT reporting this week

Memorandum



To: File 536, 528
From: Bill Warren, O&M Superintendent
Date: February 15, 2018
Re: Platte River Ice Thickness Measurement Along Union Dike

8901 S. 154TH ST.
OMAHA, NE 68138-3621
(402) 444-6222
FAX (402) 895-6543
www.papionrd.org

On February 15, 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	75
125	16	24
225	18	26
325	18	35
425	14	32
525	15	27
625	12	57

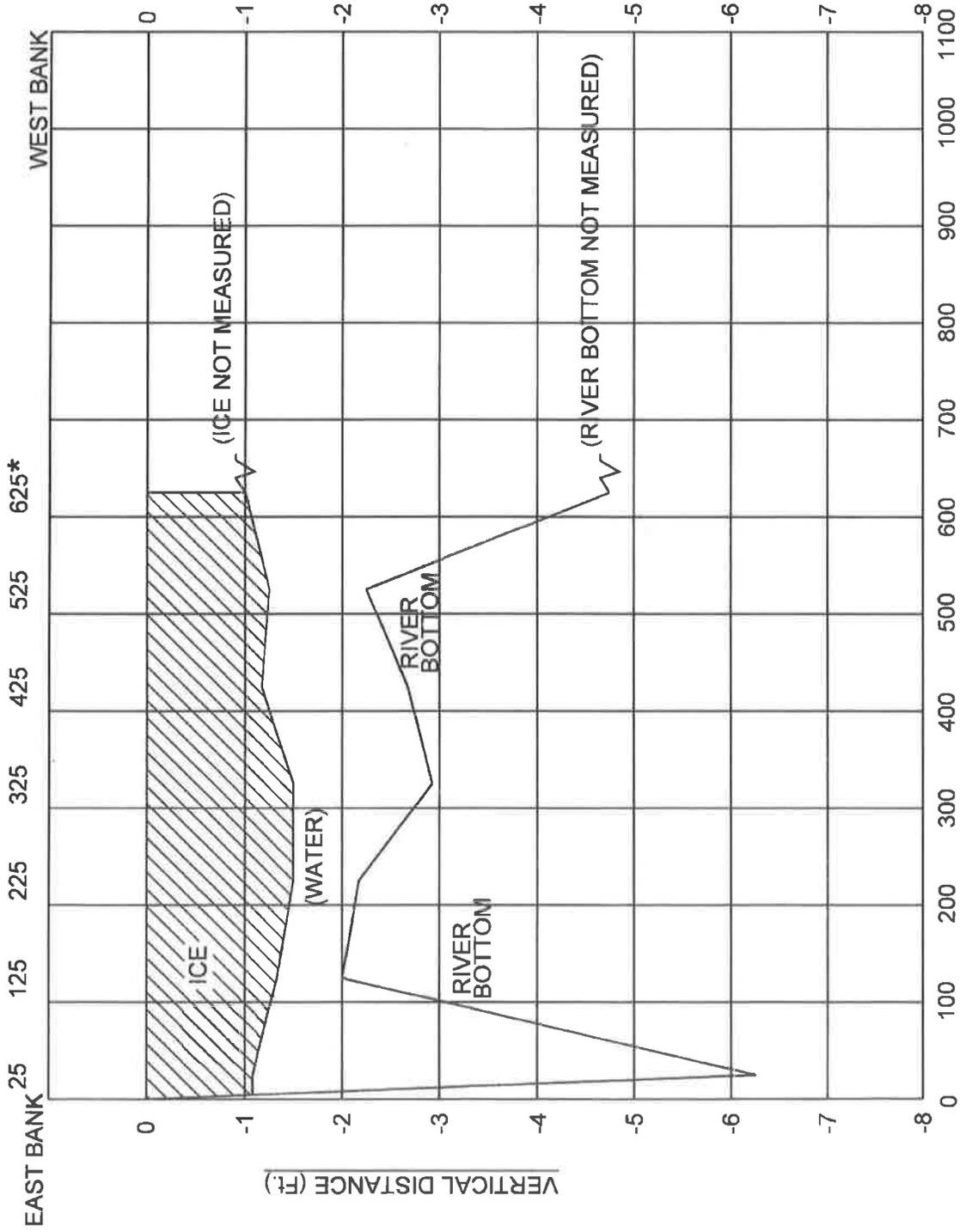
*The entire river has an ice cover, but only the 0 to 625 ft. width of ice from the east bank of the river is considered safe enough to conduct borings. The west bank is approximately 400 feet west of 625 ft. boring.

The average ice thickness is **15.1 inches**.
(Previous 2018 average ice thickness: Jan. 4 – 11.0”; Jan. 18 – 16.0”; Jan. 25 – 15.1”; Feb. 1 – 13.6”; Feb. 8 – 14.3”)

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 15th, 2018

HORIZONTAL DISTANCE (Ft.)



Looking Downstream

PATIO-MISSOURI RIVER
NATURAL
RESOURCES
DISTRICT
6901 S. 154th St.
Omaha, NE 68136-3621