

## *Summary of Lower Platte River Ice Report January 30-February 5, 2010*

### Platte River

#### **I-80 Bridge at Platte River**

Nearest gage reading is 5.75 ft. Growth from shore is 75 feet with 99% of the Channel remaining open. 1% of the open channel is occupied by moving ice in the form of frazil slush and frazil pans. There are open channels on both the North and South sides of the river. No large pieces of visible ice were observed. Water appears to be flowing very well including flowing under the ice where the channel is covered. No buildup on the bridge pillars was observed. The remaining cover appears to be about half snow covered and half blown clear of the snow. Reported February 2<sup>nd</sup>, 2010.

#### **North Lake, South Bend**

Nearest gage reading is 5.75 ft. Growth from shore is 15 feet with 99% of the Channel remaining open. 1% of the open channel is occupied by moving ice in the form of frazil slush and frazil pans. Significant change at this location. The channel has opened significantly on the South side of the river. No large moving chunks of ice were observed. The remaining cover appears smooth and intact with signs of decay along the edges of the ice. Reported February 2<sup>nd</sup>, 2010.

#### **Hwy 50 at Louisville**

Nearest gage reading is 5.75 ft. Surface roughness is smooth. There is evidence of decay in the form of melting snow and melting ice. There are cracks running parallel to the shore with a distance of 150 ft, but no fracturing. There is a spot approx 150 ft from shore where there is a 15 ft wide by 15 ft long hole where the ice has melted. There is also some melting along the Southeast bank approx 2 ft from the shoreline. The remaining cover appears to be intact and smooth to the limits of vision both upstream and downstream. Reported February 2<sup>nd</sup>, 2010.

#### **Cedar Creek Dike (Mid)**

Nearest gage reading is 5.75 ft. Growth from shore is 300 feet with 100% of the Channel remaining open. 1% of the open channel is occupied by moving ice in the form of frazil slush and frazil pans. Frazil pans and slush based on observation approx. 1/2 mile downstream, where the channel opens up quite a bit on the South side of the river. At the observation location the intact ice cover remains smooth with no visible signs of decay. There are some visible chunks of ice approx 1/4 mile upstream with the ice growth forcing the water flow to the north side of the river before it opens up again downstream as mentioned above. Reported February 2<sup>nd</sup>, 2010.

#### **Hwy 75 Bridge at Plattsmouth**

Nearest gage reading is 5.75 ft. Growth from shore is 10 feet with 100% of the Channel remaining open. 1% of the open channel is occupied by moving ice in the form of frazil slush and frazil pans. Open

Channel getting wider at this location with good water flow and no large chunks of floating ice visible. There are obvious signs of decay along the edges of the ice. The remaining ice cover is intact and smooth. Reported February 3<sup>rd</sup>, 2010.

### **Hwy 31 at 204 St.**

There is evidence of decay in the form of melting snow and melting ice. There are cracks running parallel to the shore with a distance of 10, 15-25 ft. There is breakup 15-25 ft, with water pooling on the ice. Open channel at approximately 5-10% along Sarpy shoreline. It appears that there is opening in the channel along the Cass side of the river. Reported February 3<sup>rd</sup>, 2010.

### **1/4 mile north of Fairview Rd & 3.5 mile upstream of NE Hwy 6**

Surface roughness is smooth and the river is snow covered. There is evidence of decay in the form of melting snow and melting ice. There is water pooling on the ice. Platte River flowing freely where channel splits. Main channel flowing freely. +/- 2 feet bank/border ice. Reported February 3<sup>rd</sup>, 2010.

### **Hwy 92**

Estimated less than bankfull by is 2.5 ft. Growth from shore is 2.5 ft with 6% of the Channel remaining open. Surface roughness is smooth and the river is snow covered. There is evidence of decay in the form of melting snow. This location had rain and some light snow off and on all day. Reported February 4<sup>th</sup>, 2010.

### **Hwy 77 at Fremont**

Estimated less than bankfull by is 6 ft. Surface roughness is smooth with no evidence of decay. There are cracks running parallel to the shore with a distance of 6 ft, but no fracturing. Small open spots along the north bank, very minimal openings. There is still no (or very little) open water on the Platte River at the Hwy 77 bridge and the observation site 1/2 mile upstream. The river surface is smooth and there is some water pooling on the ice from the rain this morning. The parallel cracks observed last week are still visible, but there is still no evidence of fracturing or displacement of the ice. Reported February 4<sup>th</sup>, 2010.

### **Hwy 79 at North Bend**

Estimated less than bankfull by is 6 ft. Small open channel on the south bank from under the Hwy 79 bridge to the east for some distance. Some open water along the north bank, but not very much, no continuous channel. Overall the river ice is smooth and the snow on top is melting from the light rain. Notice a parallel crack along the shoreline of an island. Reported February 4<sup>th</sup>, 2010.

### **Union Dike, 1/4 mile west of Hwy 275 & 3.1 miles upstream of Hwy 64**

Estimated less than bankfull by 2 ft. Surface roughness is smooth with evidence of decay in the form of melting snow and melting ice. There are cracks running parallel and perpendicular to the shore with a distance of 30 ft. Cracks in ice cover, parallel to shore at 3-30feet. Moderate snow. On 2-3-10 seven

holes were bored in the ice at station 155 1.1 miles upstream of Hwy 65. Ice thickness is 15.5-18.5". Reported February 4<sup>th</sup>, 2010.

## **Hwy 92**

Nearest gage reading is 5 ft. Estimated less than bankfull by 4 ft. River is snow covered. Surface roughness is smooth with evidence of decay in the form of melting snow and melting ice. There are cracks running parallel and perpendicular to the shore with a distance of 10 ft, but no fracturing. The east channel has some water standing and flowing on top of the ice. The west channel has an open channel by the west upstream of the bridge for about 250 yards downstream of the bridges. The open channel continues downstream for about 1/2 mile. There is a little water standing on top of the ice. Light rain. Reported February 4<sup>th</sup>, 2010.

## **1/4 mile north of Fairview Rd & 3.5 mile upstream of NE Hwy 6**

Nearest gage reading is 7.2 ft. Estimated less than bankfull by 10 ft. River is snow covered. Surface roughness is smooth with evidence of decay in the form of melting snow and melting ice. There are cracks running parallel and perpendicular to the shore with a distance of 6 ft, but no fracturing. Light rain. There is an open channel by the north bank. There is some water standing on top of the ice. On 2-3-10 one hole was bored in the ice on the east side of the river 1/4 mile upstream of the Hwy 6 bridge. Ice thickness was 14". Reported February 4<sup>th</sup>, 2010.

## **Confluence of the Platte and Elkhorn Rivers**

There is evidence of decay in the form of melting snow and melting ice. There is water pooling on the ice. Approximately 40% of channel open on Sarpy County side of Elkhorn River. There is evidence of pooling on top of intact ice. Reported February 3<sup>rd</sup>, 2010.

Estimated less than bankfull by 8 ft. River is snow covered. Surface roughness is smooth with evidence of decay in the form of melting snow and melting ice. There are cracks running parallel and perpendicular to the shore with a distance of 8 ft, but no fracturing. Light rain. In the Elkhorn there is an open channel by the west upstream as far as I can see. In the Platte there is an open channel by the east and west banks. At the Capehart Road area there is a lot of open water by the east and west banks and in the middle of the river. Some ice has moved here and downstream from here. Some standing water on top of the ice. Reported February 4<sup>th</sup>, 2010.

## **Elkhorn River**

### **Hwy 57 at Stanton**

Open water showing east of highway 57 bridge. Water flowing under ice. Frozen from 4 miles east of highway 57 to the Cumming co line. Some open water from highway 57 to the Madison co line. No ice breaking up, no cracking, no ice moving. Reported February 1<sup>st</sup>, 2010.

## **Hwy 92**

Nearest gage reading is 6.5 ft. Estimated less than bankfull by 9 ft. Surface roughness is smooth with evidence of decay in the form of melting snow and melting ice. There are cracks running parallel and perpendicular to the shore with a distance of 10 ft, but no fracturing. Cracks in ice cover, parallel to shore at 10-30 feet. Light rain and sleet. Downstream of the bridge there is a very small open channel in the middle of the river. Reported February 4<sup>th</sup>, 2010.

## **Hwy 30 at Arlington**

Nearest gage reading is 9 ft. Estimated less than bankfull by 10 ft. River is snow covered. Surface roughness is smooth with evidence of decay in the form of melting snow and melting ice. There are cracks running parallel and perpendicular to the shore with a distance of 10 ft, but no fracturing. Cracks in ice cover, parallel to shore at 10-40 feet. Moderate snow. Reported February 4<sup>th</sup>, 2010.

## **Hwy 36**

Nearest gage reading is 5.5 ft. Estimated less than bankfull by 10 ft. River is snow covered. Surface roughness is smooth with evidence of decay in the form of melting snow and melting ice. There are cracks running parallel and perpendicular to the shore with a distance of 40 ft, but no fracturing. Upstream of the bridge about 100' there is a small open channel in the middle of the river and by the west bank. Upstream from here there is a big curve in the river looking west or upstream there is a small open channel in the middle of the river as far as I can see. Snowing harder. Reported February 4<sup>th</sup>, 2010.

## **Hwy 64**

Nearest gage reading is 6.05 ft. Estimated less than bankfull by 10 ft. River is snow covered. Surface roughness is smooth with evidence of decay in the form of melting snow and melting ice. There are cracks running parallel and perpendicular to the shore with a distance of 10 ft, but no fracturing. Upstream of the bridge there is an open channel by the west bank. Downstream of the bridge the open channel is in the middle of the river and by the east bank. Some water standing on top of the ice downstream of the bridge. Rain change to light snow. Reported February 4<sup>th</sup>, 2010.