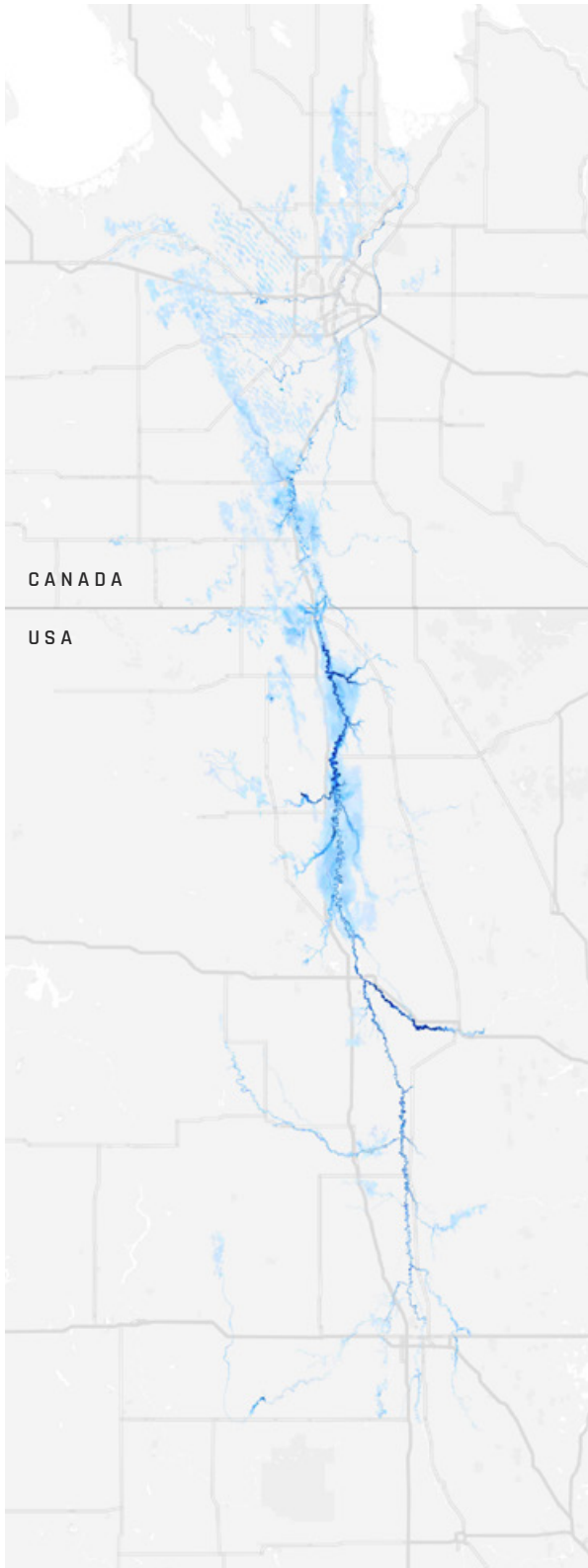


# FLOODING IN THE RED RIVER BASIN, US & CANADA

FLOOD BRIEFING SERIES  
WITH ICEYE SAR SATELLITE CONSTELLATION DATA



**1.544 SQ MI**  
**(3,998 KM<sup>2</sup>)**  
total flood extent

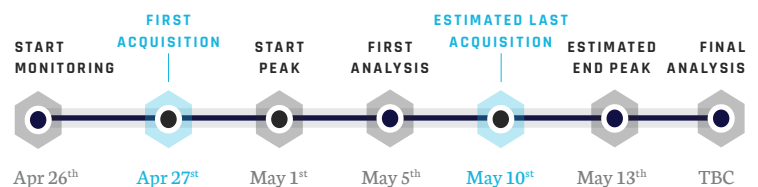


**MEAN 13 IN (33 CM)**  
**MEDIAN 7 IN (18 CM)**  
average inundation at building level

Spring snowmelt, along with multiple rounds of heavy rainfall from passing storm systems, caused a rise in river levels within the basin of the Red River of the North. Numerous gauges reached major flood stage, with widespread agricultural flooding and some flooding of unprotected populated areas. Rivers in the United States peaked around the end of April, while gauges in Canada peaked in early May. Even after the peak, many of the rivers will see elevated levels into the second week of May.

High water levels represent a genuine concern for officials in Manitoba's Peguis First Nation, where more than a thousand people are evacuated from their homes<sup>1</sup>. Many of these areas have experienced significant flooding in the past, and have constructed levee and flood wall systems to prevent further flood loss. Therefore, most urban areas (especially the larger cities of Fargo, Grand Forks, and Winnipeg) saw little impact from the flooding. However, populated areas without flood protection likely saw impacts from the floodwaters, and many farmland areas have been inundated.

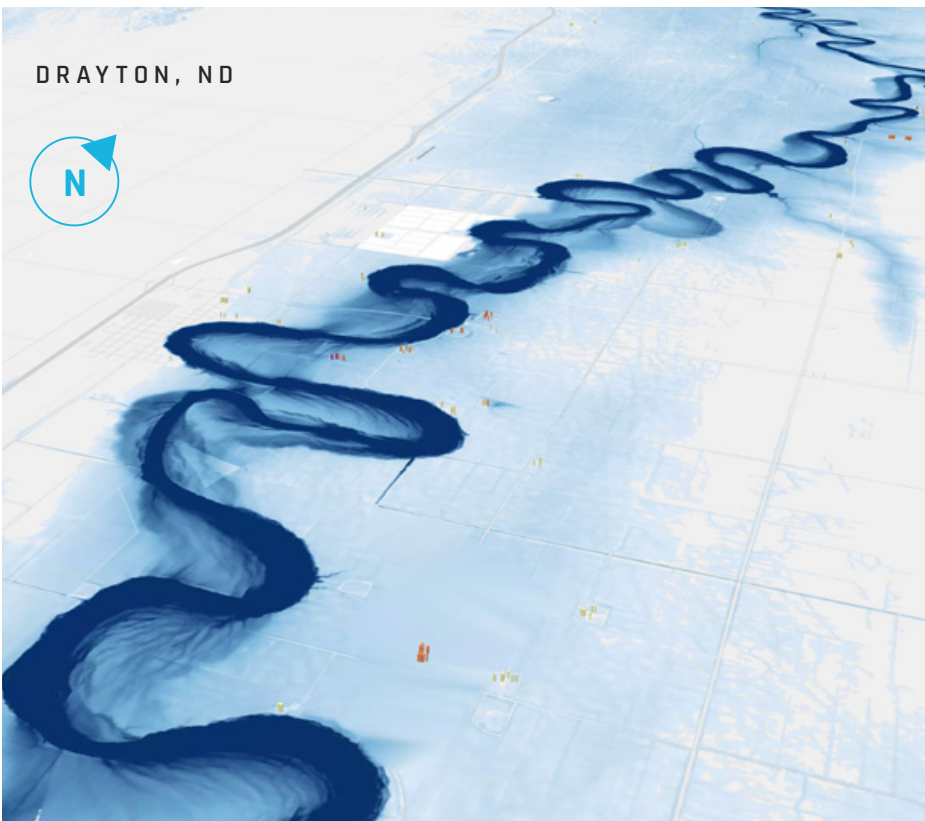
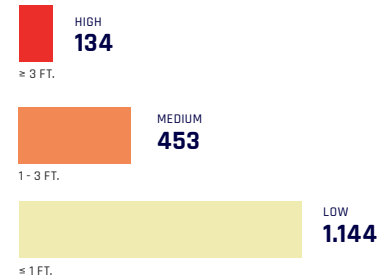
<sup>1</sup> Source: <https://www.cbc.ca/news/canada/manitoba/manitoba-flood-forecast-red-river-fisher-river-1.6442912>



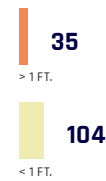


**TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY**

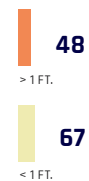
TOTAL IMPACTED BUILDINGS IN USA: 1,722



FARGO, ND, USA  
TOTAL IMPACTED BUILDINGS: 139



DRAYTON, ND, USA  
TOTAL IMPACTED BUILDINGS: 115



*Disclaimer: Please note that this Briefing describes an ongoing event across the USA-Canada border, however, the reported building numbers are for the USA only.*

Building footprint credit for FEMA

**TALK TO SALES & GAIN ACCESS TO OUR DETAILED ANALYSIS**

[www.ICEYE.com/flood](http://www.ICEYE.com/flood)