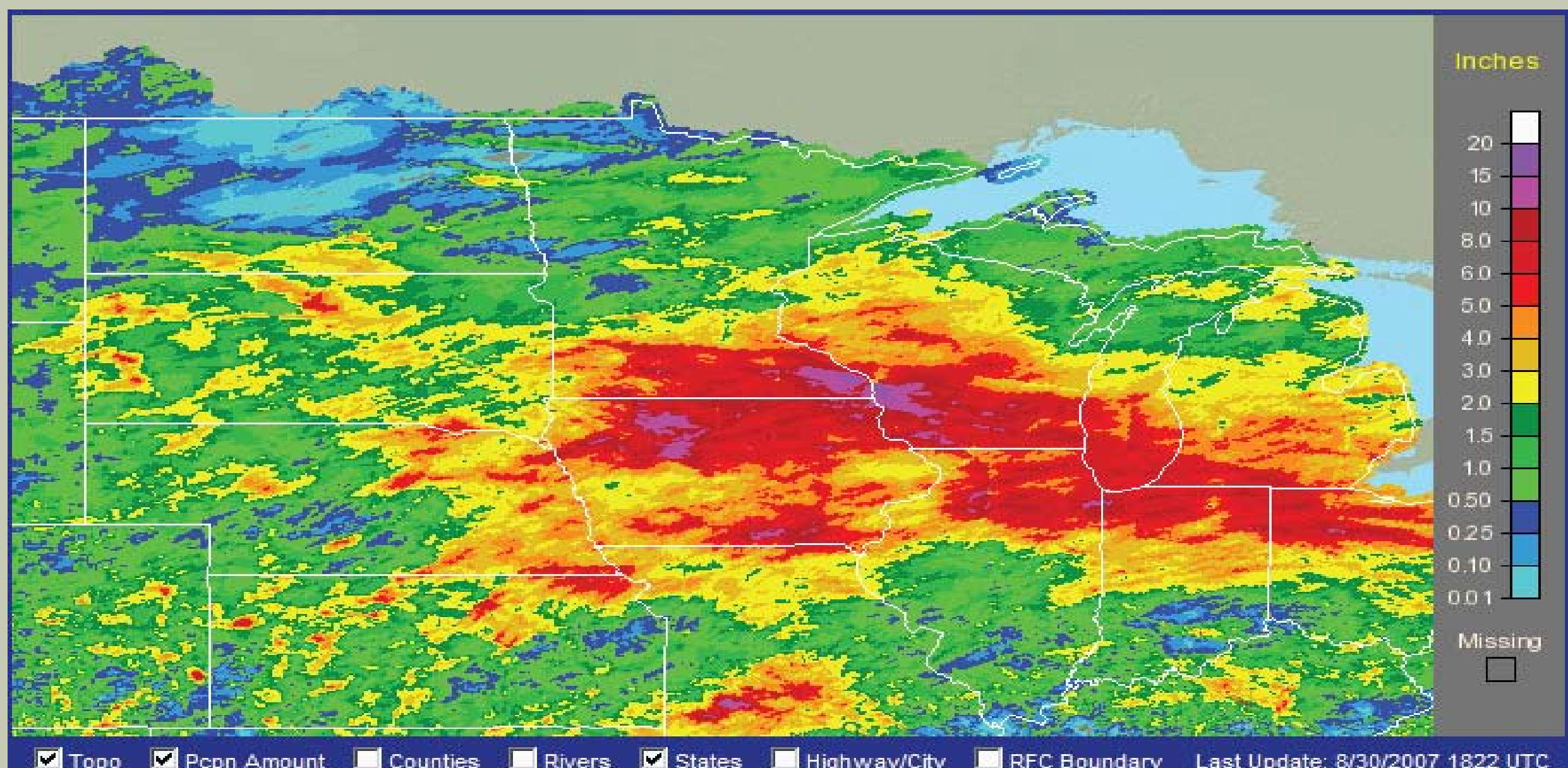


Floods from Record Rains in Illinois, Iowa, Minnesota, and Wisconsin, August 17–30, 2007

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INTENSE PRECIPITATION



More than 16 inches of rain fell—up to 15 inches in 24 hours—as a series of thunderstorms moved along a stalled frontal boundary from Iowa to Minnesota, Wisconsin, Illinois, and farther east, August 17–23 (National Weather Service, 2007a).

USGS MONITORING



Boat measurement on the Illinois River, Illinois



A crest-stage gage damaged by flood debris on Cedar Creek, Minnesota



Gaging station on Aux sable Creek, Illinois



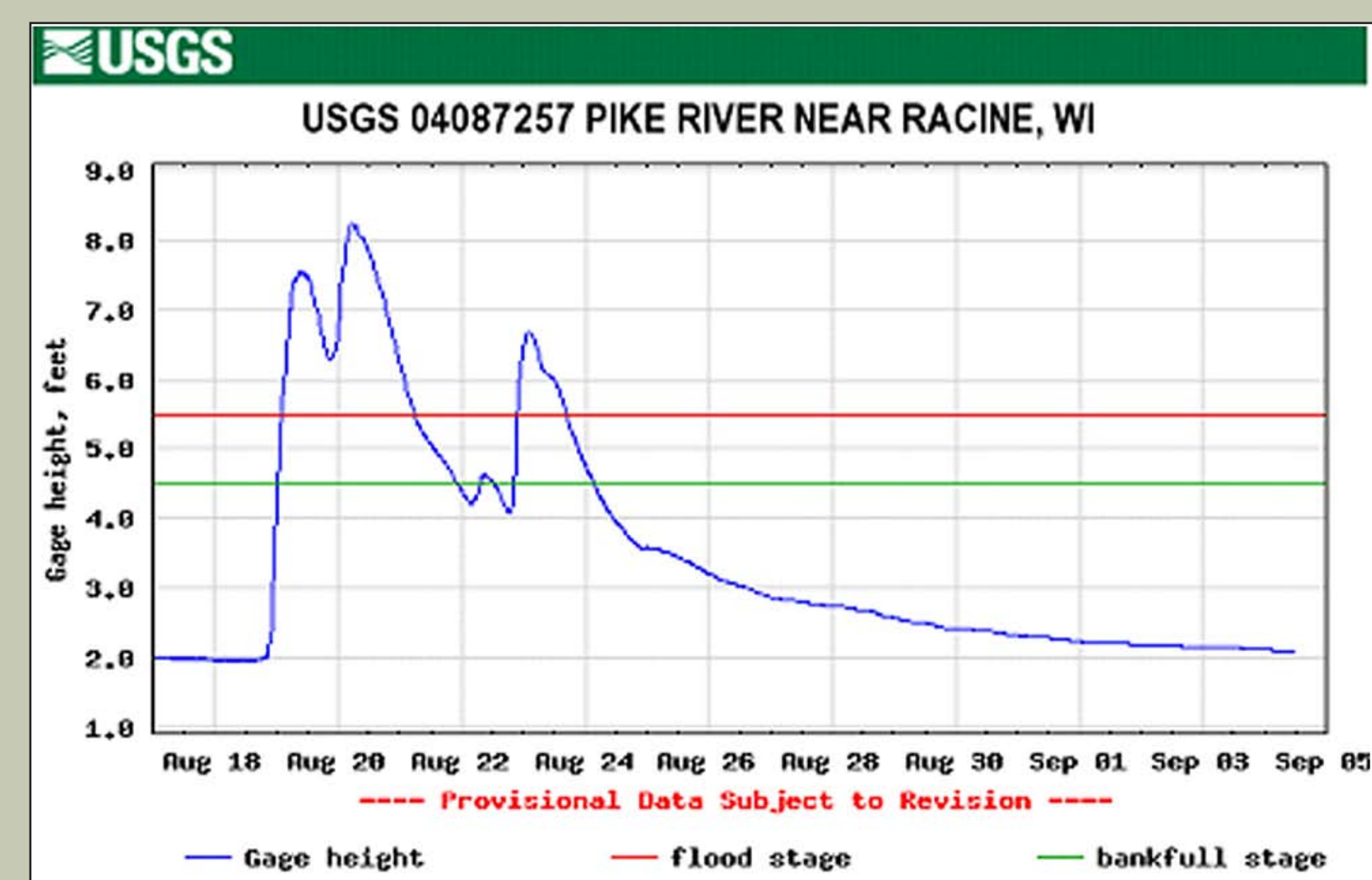
A cableway and acoustic Doppler current profiler measurement on the Zumbro River, Minnesota



Gage inspection on the Chariton River, Iowa



Measuring overflow on the Chariton River, Iowa



USGS hydrologic technicians and hydrologists made more than 100 streamflow measurements related to the floods—data used during flooding by emergency officials.

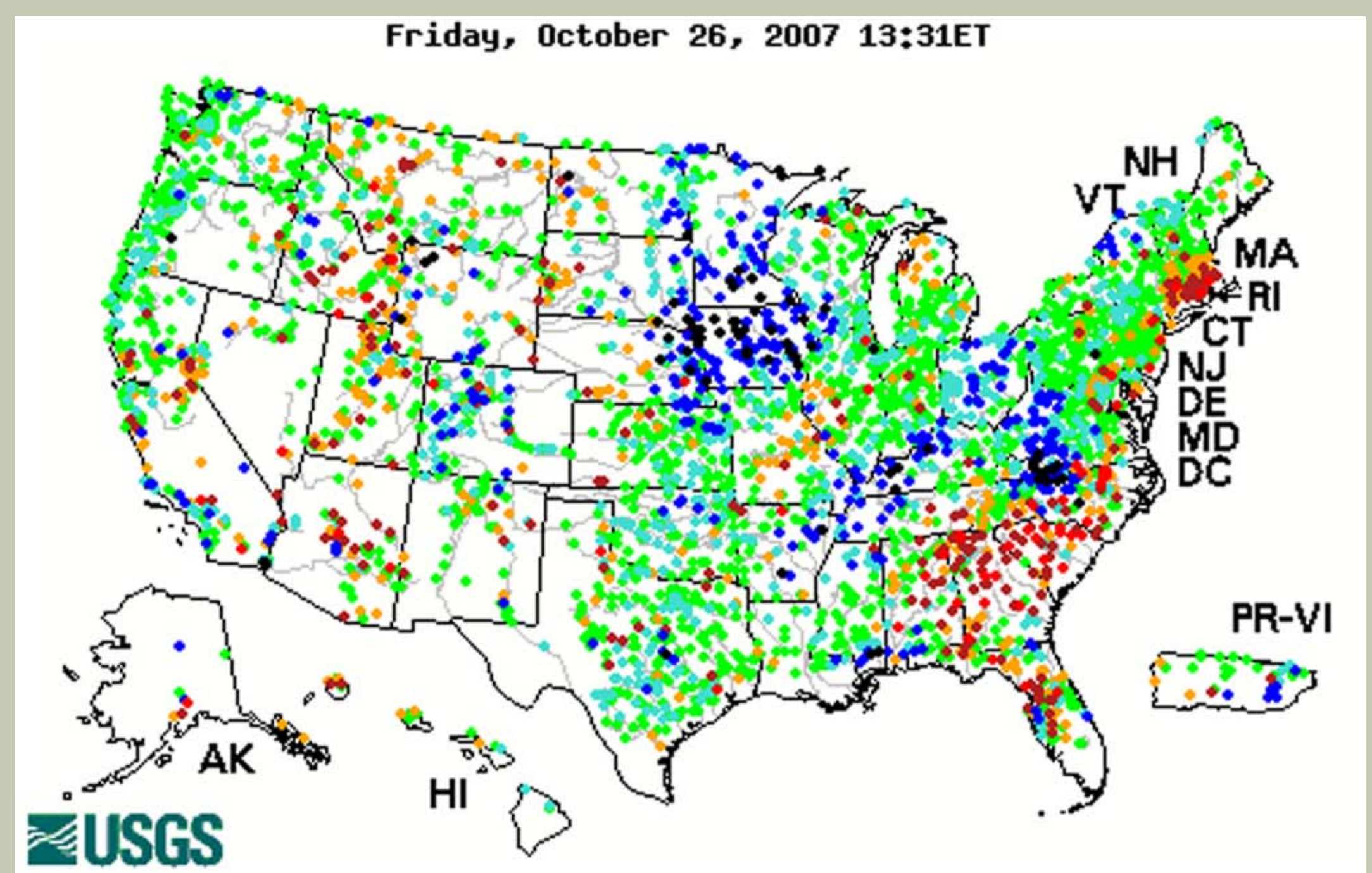
FLOOD STATISTICS

Provisional summary of peak stages and discharges at selected streamflow-gaging stations in the upper Midwest

State	Station number	Station name	Drainage area (mi ²)	Flood of August 2007			Previous maximum discharge				
				Peak stage (ft)	Peak discharge (cfs)	Date (2007)	Peak stage (ft)	Peak discharge (cfs)	Date		
Illinois	0543900	S. Br. Kishwaukee River at Oakb.	77.7	15.34	3,100	Aug. 24	100	15.80	3,500	July 1983	28
Illinois	0544070	Rock River at Byron, IL	7990	15.50	32,100	Aug. 25	nd	16.12	35,400	June 2000	7
Illinois	0529000	Des Plaines River near Des Plaines, IL	360	8.62	3,800	Aug. 24	10	10.88	4,900	Oct. 1986	67
Illinois	0520090	Ball Creek at Rolling Meadows, IL	30.5	10.97	1,350	Aug. 23	10-25	14.03	1,650	Aug. 1987	34
Illinois	0526000	North Branch Chicago River at Mies., IL	100	9.81	1,900	Aug. 24	10	11.25	2,500	Aug. 1987	57
Illinois	0526235	Deer Creek near Chicago Heights, IL	23.1	12.37	1,300	Aug. 24	100	12.15	1,380	July 1987	59
Illinois	0523990	W. Br. Du Page R. near West Chicago, IL	29.5	10.32	1,100	Aug. 24	50	10.91	984	Dec. 1982	46
Illinois	0524300	Illinoia River at Marseilles, IL	8,280	24.37	80,000	Aug. 25	10-25	28.85	85,000	Feb. 1967	88
Illinois	0525000	Fox River at Algonquin, IL	1,400	3.51	6,700	Aug. 25	25-50	4.50	6,720	May 2004	82
Illinois	0525000	Tyler Creek at Elgin, IL	34.9	8.91	1,000	Aug. 24	100	8.28	1,600	Aug. 2002	9
Illinois	0525000	Poplar Creek at Elgin	35.2	5.19	830	Aug. 20	10-25	6.78	1,180	Feb. 1997	56
Illinois	0525100	Ferson Creek near St. Charles, IL	51.7	8.10	2,800	Aug. 24	50	9.66	2,580	Feb. 1997	46
Illinois	0525140	Fox River at Montgomery, IL	1,730	14.77	15,300	Aug. 24	nd	13.92	8,800	May 2004	4
Iowa	0528740	Upper Iowa River at Bluffton, IA	387	12.90	8,200	Aug. 22	2-5 ¹⁰	nd	20,200	Mar. 1961	5
Iowa	0528750	Upper Iowa River at Decorah, IA	511	9.53	8,610	Aug. 22	2-5	nd	28,500	May 1941	37
Iowa	0528820	Upper Iowa River near Dorchester, IA	770	16.18	11,000	Aug. 22	5-10	21.80	30,400	May 1941	32
Iowa	0528900	Yellow River near Ion, IA	221	14.64	9,330	Aug. 20	2-5	15.20	18,500	May 1941	19
Iowa	0528940	Bloody Run Creek near Marquette, IA	34.1	8.53	1,610	Aug. 19	5-10	12.38	4,620	May 2004	15
Iowa	0542100	Wapsipicon River at Independence, IA	1,050	19.63	10,800	Aug. 24	2-5	22.35	31,000	May 1989	73
Iowa	0545890	West Fork Cedar River at Finchford, IA	846	12.81	5,930	Aug. 24	2-5	15.85	31,900	Jun. 1951	61
Iowa	0546400	Cedar River at Waterloo, IA	5,150	12.61	24,200	Aug. 24	2-5	21.86	76,700	Mar. 1961	66
Iowa	0547670	Des Moines River at Humboldt, IA	2,260	9.24	7,270	Aug. 23	2-5	15.40	19,000	Jul. 1993	42
Iowa	0548900	Des Moines River at Fort Dodge, IA	4,190	14.51	29,400	Aug. 22	25	19.62	35,000	Apr. 1966	74
Iowa	0549100	Des Moines River near Stratford, IA	5,450	22.99	35,500	Aug. 23	10-25	25.68	57,400	July 1952	39
Iowa	0548900	Cedar Creek near Bussey, IA	374	21.44	10,900	Aug. 25	2-5	34.61	96,000	Jul. 1982	59
Iowa	0548900	Des Moines River at Ottumwa, IA	13,400	11.13	35,100	Aug. 24	10	22.15	112,000	Jul. 1993	37
Iowa	0549000	Des Moines River at Keosauqua, IA	14,000	26.97	70,700	Aug. 24	50-100	32.66	111,000	Jul. 1993	37
Iowa	0549430	Fox River at Bloomfield, IA	87.7	25.05	nd	Aug. 24	nd	24.02	8,600	May 1980	25
Iowa	0602700	S.F. Chariton Riv. nr Primas City, IA	168	27.50	22,400	Aug. 24	25-50	34.84	70,800	Sept. 1982	38
Iowa	0603900	Chariton River near Rathbun, IA	549	21.24	0	Aug. 24	nd	14.94	2,780	Dec. 1993	37
Iowa	0604010	Chariton River near Moulton, IA	740	37.80	20,400	Aug. 25	nd	36.83	11,200	Jul. 1982	27
Minnesota	0533380	Straight River nr Fairbault, Minn.	435	8.85	3,440	Aug. 20	2-5	12.74	6,080	June 2004	41
Minnesota	0537295	S. Br. Zumbro River at Rochester, Minn.	303	16.64	11,800	Aug. 19	10-25	23.36	30,500	July 1978	66
Minnesota	0537380	Milken Cr near Concord, Minn.	22.1	11.76	1,450	Aug. 19	5-25	15.80	3,470	June 2001	28
Minnesota	0537400	Zumbro R at Zumbro Falls, Minn.	1,150	21.76	18,100	Aug. 20	5-10	30.80	35,800	July 1951	80
Minnesota	0538100	Cedar Cr nr Ridgeway, Minn.	7.23	18.40	nd	Aug. 19	nd	13.86	nd	Sept. 2004	6
Minnesota	0538350	Root River at Pilot Mound, Minn.	565	19.23	12,600	Aug. 19	nd	23.85	21,900	Sept. 2004	4
Minnesota	0538450	Root River near Ruskford, Minn.	902	28.98	nd	Aug. 19	nd	29.35	32,400	June 2000	22
Minnesota	0538450	Ruth Creek at Ruskford, Minn.	132	17.45	30,500	Aug. 19	>200	13.54	11,600	Mar. 1950	65
Minnesota	0538400	Campbell Cr nr Money Creek, Minn.	6.82	10.40	nd	Aug. 19	nd	4.80	nd	Sept. 2004	6
Minnesota	0538500	Root River near Houston, Minn.	1,250	18.15	46,000	Aug. 19	100-200	18.32	37,000	April 1962	83
Minnesota	0538500	S.F. Root River nr Houston, Minn.	275	11.47	3,580	Aug. 19	2-5	14.90	13,800	June 2000	54
Minnesota	0538700	Crushed Creek at Freeburg, Minn.	44.8	15.90	1,510	Aug. 19	10-25	19.02	2,200	Mar. 1992	28
Wisconsin	0408723	Root River Canal near Franklin, Wis.	57.0	11.66	1,280	Aug. 21	10-25	11.28	1,440	Mar. 1974	42
Wisconsin	0408727	Pike River near Racine, Wis.	38.5	8.24	1720	Aug. 20	100	9.14	1,650	May 2004	35
Wisconsin	0540500	Baraboo River near Baraboo, Wis.	609	19.50	3,940	Aug. 21	2-5	22.78	7,900	Mar. 1917	73
Wisconsin	0540600	Kickapoo River at LaFarge, Wis.	265	15.84	2,650	Aug. 19	2-5	14.82	14,200	July 1992	68
Wisconsin	0541040	Kickapoo River at Steuben, Wis.	687	16.89	8,700	Aug. 20	10-25	14.81	16,500	July 1978	73
Wisconsin	0542718	Yahara River at Windsor, Wis.	73.6	6.94	1,270	Aug. 19	25-50	6.58	2,050	July 1993	22
Wisconsin	0543000	Rock River at Afton, Wis.	3,340	10.01	8,380	Aug. 30	5	13.05	13,000	Mar. 1929	93
Wisconsin	0543650	Sugar River near Brookfield, Wis.	523	9.04	5,340	Aug. 23	2-5	11.40	14,800	Sept. 1915	93
Wisconsin	0544750	Fox River near New Munster, Wis.	811	14.98	4,880	Aug. 24	5-10	14.10	7,520	Mar. 1980	67

Footnotes:
¹ Peak discharge for 2007 exceeds the previous maximum known discharge.
² Date of maximum discharge. Maximum stage was on different date.
³ Backwater.
⁴ Gage at different site and same datum.
⁵ Gage at different site and datum.
⁶ Gage at different datum.
⁷ Before regulation.
⁸ After regulation.
⁹ Estimated.
¹⁰ Less than 10 years of record; regional regression equations used to estimate recurrence interval; not determined.

Flood statistics computed and verified by the USGS are used by Federal, State, and local agencies to help plan and design structures that will minimize risks from future flooding.



Stream information is available in near-real-time online at: <http://waterdata.usgs.gov/nwis>

FLOOD AFFECTS



Highway erosion along Whitewater River, Minnesota (courtesy of National Weather Service)



Steuben, Wisconsin flooded from the Kickapoo River



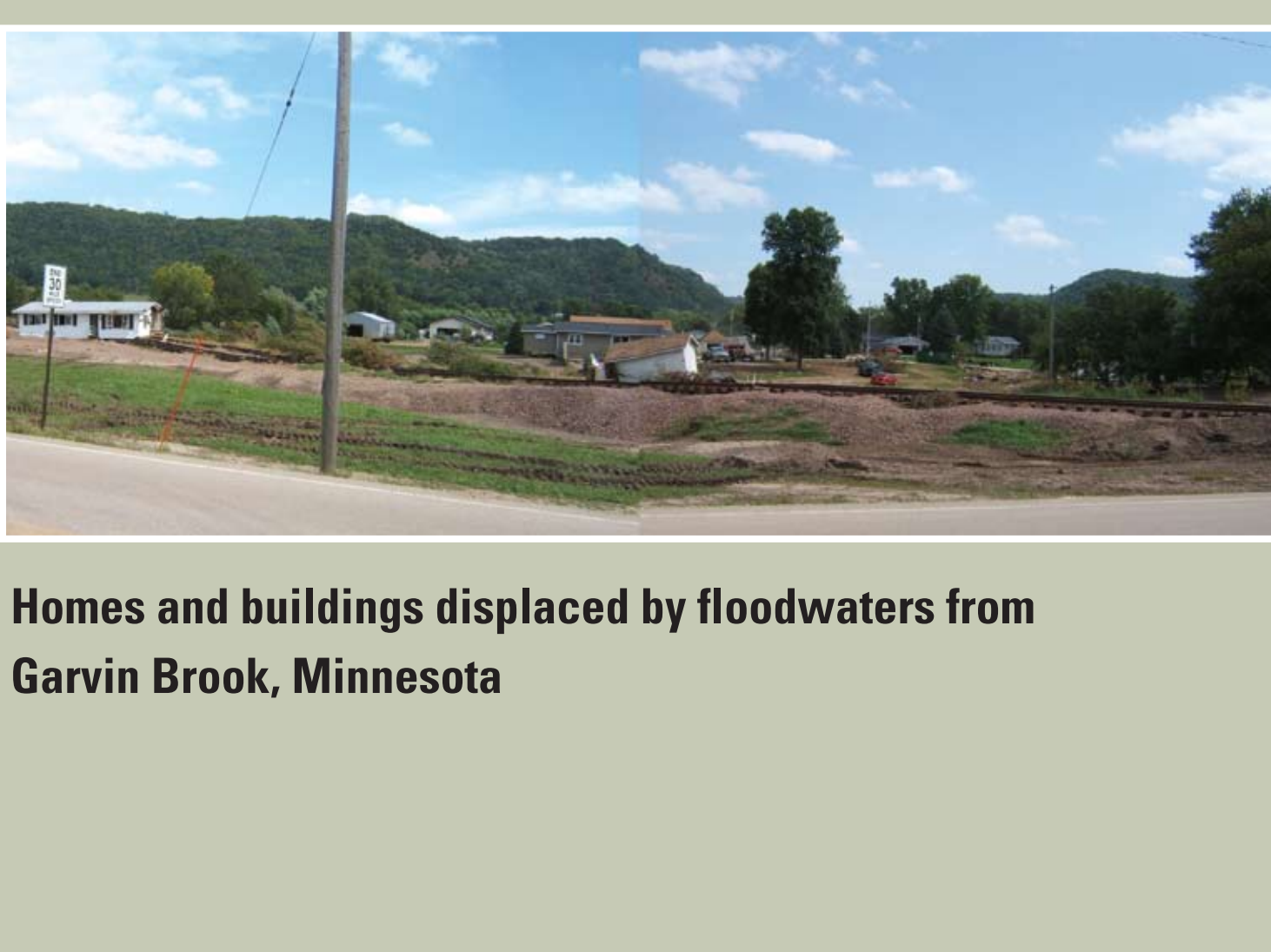
Washed out roads adjacent to Cedar Creek, Minnesota



Flooded homes from the South Branch Kishwaukee River, Illinois



Flooded roads from the South Fork Chariton River, Iowa



Homes and buildings displaced by floodwaters from Garvin Brook, Minnesota

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