

1885

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Recommended Citation

Haynes, M. B. (1885). High Water at Mankato, 1881. *Journal of the Minnesota Academy of Science, Vol. 2 No. 5*, 388-389.

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HIGH WATER AT MANKATO, 1881.

M. B. HAYNES.

[Communicated June, 1881.]

The following are notes on the height of water and the rate of rise per hour during the flood in the Minnesota Valley in the spring of 1881. The observations were made by the Mankato city engineer, Mr. Haynes, and kindly furnished the Academy by Professor A. F. Bechdolt, as possessing more than a mere passing value.

HIGH WATER, 1881.

					ft.-in.
Wedn'y, Apr. 20,	11 a. m.	Above extreme low water mark			15
Thurs. " 21,	11 a. m.	"	"	"	15
Friday " 22,	10 a. m.	"	"	"	17-3
" " 22,	4 p. m.	"	"	"	18-2
Saturday, " 23,	9 a. m.	"	"	"	20-1
" " 23,	4 p. m.	"	"	"	20-10
Sunday, " 24,	8 a. m.	"	"	"	21-10
" " 24,	5 p. m.	"	"	"	22-4
Monday, " 25,	8 a. m.	"	"	"	23-6
Tuesday, " 26,	6 a. m.	"	"	"	24-5
Wed'ny, " 27,	8 a. m.	"	"	"	23-3½
Thursday, " 28,	2 p. m.	"	"	"	23-8
Friday, " 29,	9 a. m.	"	"	"	22-8
" " 29,	4 p. m.	"	"	"	22-4
Saturday " 30,	9 a. m.	"	"	"	21-2

On April 18th, '67, the water reached a height of 22 feet 4 inches above extreme low water, corresponding in height to that of Sunday, 24th of April, 1881, at 5 p. m.

On April 18th, 1862, water stood at 22 feet 2 inches above extreme low water.

The height of Tuesday, 20th, 6 a. m., of 24 feet 5 inches by City grade, assuming 100 as unit, corresponds to 97.68.

Comparing the rate of rise per hour from one period of observation to the next, we obtain the following results:

From April 21st, 11 a. m. to 22d, 10 a. m., per hour,	+ 1.17 in.
" " 22, 10 a. m. " 22, 4 p. m. "	+ 1.83 "
" " 22, 4 p. m. " 23, 9 a. m. "	+ 1.35 "
" " 23, 9 a. m. " 23, 4 p. m. "	+ 1.28 "
" " 23, 4 p. m. " 24, 8 a. m. "	+ .87 "
" " 24, 8 a. m. " 24, 5 p. m. "	+ .66 "
" " 24, 5 p. m. " 25, 8 a. m. "	+ .93 "
" " 25, 8 a. m. " 26, 6 a. m. "	+ .05 "
<i>(Level for six hours without variation.)</i>	
" " 26, 6 a. m. to 27, 8 a. m. per hour,	— .67 "
" " 27, 8 a. m. " 28, 2 p. m. "	+ .15 "
" " 28, 2 p. m. " 29, 9 a. m. "	— .63 "
" " 29, 9 a. m. " 29, 4 p. m. "	— .57 "
" " 29, 4 p. m. " 30, 9 a. m. "	— .82 "