

NWS FORM E-19 (COVER)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

REPORT ON RIVER GAGE STATION

REVISED, PRINTED DATES: 04/16/2009, 08/22/2010

LOCATION: GENOA
STREAM: BEAVER CREEK
BASIN: LOUP 5

HSA: GID

REFERENCES:

GENOA LEADER TIMES - NEWSPAPER
USGS FORM 9-197 - OCT 1989
USGS STATION DESCRIPTION - 4/2/2009
USGS STATION DESCRIPTION - FEBRUARY 2001
WATER RESOURCES DATA FOR NE - USGS
WS FORM E-19 - FEBRUARY 1979 AND JULY 1996

ABBREVIATIONS:

BM - bench mark	EPA - Environmental Protection Agency
DS - downstream	IBWC - International Boundary and Water Comm.
US - upstream	MSRC - Mississippi River Commission
HW - high water	MORC - Missouri River Commission
LW - low water	NOAA - National Oceanic and Atmospheric Admin.
RB - right bank	NOS - National Ocean Survey
LB - left bank	NWS - National Weather Service
MGL - mean gulf level	TVA - Tennessee Valley Authority
MLW - mean low water	USACE - U.S. Army Corps of Engineers
MSL - mean sea level	USBR - U.S. Bureau of Reclamation
MLT - mean low tide	USGS - U.S. Geological Survey
MT - mean tide	USWB - U.S. Weather Bureau
WQ - water quality	NGVD - National Geodetic Vertical Datum
RM - reference mark	NAD - North American Datum
RP - reference point	

LOCATION IDENTIFICATION: GEON1
NWS INDEX NUMBER: 25-3189-6
USGS NUMBER: 06794000

MAP OF GAGE LOCATION

LATITUDE: 41 26 29
LONGITUDE: 97 44 04

SOURCE: USGS STATION DESCRIP

LOCATION: BEAVER CREEK AT GENOA, NE
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NWS FORM E-19 PAGE 1: GAGE MAP

BENCHMARKS

ELEVATION OF GAGE ZERO: 1542.130 VERTICAL DATUM: NGVD 1929
 LEVELING AGENCY AND DATE: 7/15/2008 CHECKBAR: 27.615
 RATING AGENCY: USGS

BENCHMARK	DESCRIPTION	GAGE ZERO	DATUM
RM1	A STANDARD BRONZE TABLET SET IN A CONCRETE FILLED 3.5' BY 5'3" IRON PIPE EMBEDDED IN 2 FT. OF CONCRETE AND 3 FT. OF EARTH, 18.8 FT. DOWNSTREAM FROM AND IN LINE WITH THE RIGHT BRIDGE ABUTMENT (AT PREVIOUS SITE). ELEVATION IS 12.42 FT. WAS UNABLE TO FIND.	12.420	1554.550
RM10	A NDOR BRASS CAP ON THE SW CORNER OF NEW BRIDGE.	28.186	1570.316
RM11	A CHISELED SQUARE ON NE CORNER OF NEW BRIDGE.	28.995	1571.125
RM5	A BRASS TABLET LOCATED 121 FT. NORTH AND 30 FT. EAST FROM WELL ON SOUTH SIDE OF ROAD RUNNING EAST AND WEST IN THE PARK. TABLET IS LOCATED ON THE SOUTHEAST SIDE OF LARGE LILAC BUSH. ELEVATION IS 28.37 FEET. WAS UNABLE TO FIND THIS REFERENCE MARK.	28.370	1570.500
RM7	A CHISELED SQUARE ON TOP OF THE EAST CONCRETE CULVERT POST LOCATED ON THE NORTH SIDE OF THE ROAD 130 FEET NORTH OF THE WELL. ELEVATION IS 32.096 FEET.	32.096	1574.226
RM8	A 1/4 INCH STUD BOLT ON THE NORTHWEST CORNER OF THE CONCRETE GAGE HOUSE APPROXIMATELY TWO FEET ABOVE THE LAND SURFACE. ELEVATION IS 14.45 FEET.	14.450	1556.580
RM9	A CHISELED SQUARE ON THE NW CORNER OF BRIDGE RAIL ON THE NEW HIGHWAY 39 BRIDGE.	28.758	1570.888
RP1	A CHISELED ARROW ON THE DOWNSTREAM HANDRAIL OF NEW BRIDGE.	28.460	1570.590

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GAGES

DCP

TELEM

NESS ID: D11030FE
 OWNER: USGS
 REPORT TIME: 004820
 INTERVAL: 60
 CRITERIA: HG

TYPE OF TELEMETRY: dedicated
 OWNER: USGS
 PHONE NUMBER:
 INTERVAL:

PAYOR/COST OF LINE: Unk / \$

GAGE TYPE	OWNER	MAINTENANCE	BEGAN	ENDED	GAGE LOCATION/REMARKS
chain	USGS	USGS	10/08/1940	11/04/1955	ESTABLISHED BY THE USGS WITH A CHAIN GAGE ON DOWNSTREAM SIDE OF A BRIDGE, 0.4 MILES UPSTREAM OF PRESENT SITE WITH A DIFFERENT DATUM.
Unk	USGS	USGS	11/04/1942	11/04/1955	A RECORDING GAGE WAS INSTALLED AT THE SITE OF THE CHAIN GAGE.
Unk	USGS	USGS	11/04/1955	04/14/2000	RECORDING GAGE WAS PUT IN OPERATION IN 1955.
bubble	USGS	USGS	07/25/1980	04/14/2000	A MANOMETER WITH GAS PURGE SYSTEM AND STEVENS A-71 RECORDER WAS INSTALLED. THE MANOMETER AND SUTRON 8400 WERE REMOVED ON APRIL 14, 2000.
wireweight	USGS	USGS	07/25/1980	12/31/1993	A CANTILEVERED WIRE WEIGHT GAGE WAS MOUNTED ON THE STREAM WARD SIDE OF THE GAGE AND READ FROM INSIDE THE GAGE HOUSE. THIS HAS DAMAGED AND VANDALIZED IN 1992 AND 1993 AND WAS REMOVED.
staff	USGS	USGS	09/24/1998		A SERIES OF STAFF GAGES WERE SET TO DETERMINE STAGES FOR LOW TO OVER BANK FLOW. LEVELS OF 9/24/98. PER LEVELS RUN 4/30/2004, TOP OF MIDDLE STAFF 10.18 FT. GAGE DATUM (MEASURED 10.14 FT.); TOP OF UPPER STAFF 13.51 FT. GAGE DATUM (MEASURED 13.53 FT.)
bubble	USGS	USGS	04/14/2000		A SUTRON ACCUBAR NONSUBMERSIBLE PRESSURE TRANSDUCER WAS INSTALLED. A SUTRON CHART DRIVE UNIT AND SUTRON 8004 DCP WERE INSTALLED. A SUTRON 8200 WAS EVENTUALLY INSTALLED WHICH REPLACED THE SUTRON 8004.
Other	USGS	USGS	08/15/2003	12/31/2050	AN INDEPENDENT AIR SUPPLY REPLACED THE N2 SYSTEM.
Other	USGS	USGS	01/23/2008		A DA522 HIGH SPEED LOGGER WAS INSTALLED ON 1/23/2008.

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 NWS FORM E-19 PAGE 3: GAGES

HISTORY

PUBLICATION/LOCATION OF RECORDS	STARTING DATE	ENDING DATE
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WATER RESOURCES DATA - NE	10/08/1940	

TYPE OF GAGE	OWNER	STARTING DATE	ENDING DATE
-----	-----	-----	-----
chain	USGS	10/08/1940	11/04/1955
Unk	USGS	11/04/1942	11/04/1955
Unk	USGS	11/04/1955	04/14/2000
bubble	USGS	07/25/1980	04/14/2000
wireweight	USGS	07/25/1980	12/31/1993
staff	USGS	09/24/1998	
bubble	USGS	04/14/2000	
Other	USGS	08/15/2003	12/31/2050
Other	USGS	01/23/2008	

ZERO ELEVATION	STARTING DATE
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1542.130	01/01/1929
1546.750	10/08/1940
1542.130	11/02/1955

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 NWS FORM E-19 PAGE 4: HISTORY

CRESTS

FLOOD STAGE: 15.00 ACTION STAGE: 13.00 BANKFULL STAGE: 15.00
 FLOOD FLOW: 4777 ACTION FLOW: 2907

DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS
09/03/1941	UNDEF	6.24	1190		X	X	MAX. Q, HG AFFECTED BY BACKWATER FROM ICE, DIFFERENT DATUM, AND HG IS ESTIMATED.
06/21/1942	UNDEF	15.50	5750		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/15/1943	UNDEF	11.95	2730		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
05/13/1944	UNDEF	12.54	2970		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/09/1945	UNDEF	6.32	1120		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
05/30/1946	UNDEF	8.92	1870		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/22/1947	UNDEF	11.20	2410		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
02/28/1948	UNDEF	13.67	3700		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/02/1949	UNDEF	13.20	3400		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
07/19/1950	UNDEF	18.70	21200		X		RECORD FLOOD.
03/24/1951	UNDEF	6.90	1580		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
08/25/1952	UNDEF	4.48	792		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
05/11/1953	UNDEF	6.15	1400		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/15/1954	UNDEF	9.90	2610		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
07/05/1955	UNDEF	8.03	1910		X		PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
05/30/1956	UNDEF	6.48	865				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/16/1957	UNDEF	15.10	4100				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
07/24/1958	UNDEF	11.05	2600				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
05/31/1959	UNDEF	7.79	1300				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/21/1960	UNDEF	13.29	3700				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
05/15/1961	UNDEF	5.78	579				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
03/28/1962	UNDEF	8.54	1600				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
02/07/1963	UNDEF	8.56	1500			X	PEAK "Q" AND ASSOCIATED "HG" (AFFECTED BY BACKWATER FROM ICE) FOR THE YEAR.

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DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS
05/26/1964	UNDEF	20.75	18500				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT (RECORD HIGH STAGE) FOR THE YEAR.
06/29/1965	UNDEF	13.01	4000				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
08/13/1966	UNDEF	19.39	14200				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/16/1967	UNDEF	13.89	4620				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
02/29/1968	UNDEF	6.20				X	MAXIMUM GAGE HEIGHT FOR THE YEAR WHICH WAS AFFECTED BY BACKWATER FROM ICE.
06/30/1968	UNDEF	5.23	588				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/26/1969	UNDEF	17.22	9270				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
01/27/1970	UNDEF	7.05	900				PEAK DISCHARGE (ESTIMATED) AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
02/20/1971	UNDEF	15.56	6000			X	PEAK "Q" (EST.) & ASSOCIATED "HG" FOR THE YEAR WHICH WAS AFFECTED BY BACKWATER.
05/24/1972	UNDEF	8.59	1730				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
01/27/1973	UNDEF	10.43				X	MAXIMUM STAGE FOR THE YEAR WHICH WAS AFFECTED BY BACKWATER FROM ICE.
05/26/1973	UNDEF	9.87	2230				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
01/19/1974	UNDEF	6.55				X	MAXIMUM STAGE FOR THE YEAR WHICH WAS AFFECTED BY BACKWATER FROM ICE.
06/06/1974	UNDEF	5.78	710				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/21/1975	UNDEF	8.34	1600				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/24/1976	UNDEF	9.04	1690				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
05/22/1977	UNDEF	7.32	972				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
03/13/1978	UNDEF	11.36				X	MAXIMUM GAGE HEIGHT FOR THE YEAR WHICH WAS AFFECTED BY BACKWATER FROM ICE.
03/16/1978	UNDEF	10.71	2620				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
05/10/1979	UNDEF	8.47	1540				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
08/16/1980	UNDEF	10.34	2380				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
08/05/1981	UNDEF	12.30	2390				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
07/10/1982	UNDEF	16.25	4750	X			MAXIMUM GAGE HEIGHT (FROM FLOODMARK) FOR THE YEAR.
07/15/1982	UNDEF	14.97	5000	X			PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT (FROM FLOODMARK) FOR THE YEAR.
06/18/1983	UNDEF	13.43	3410				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/12/1984	UNDEF	14.44	4520				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.

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DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS
04/27/1985	UNDEF	8.76	1230				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/30/1986	UNDEF	10.81	2190				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
03/24/1987	UNDEF	10.10	1800				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
02/19/1988	UNDEF	7.77				X	MAXIMUM GAGE HEIGHT FOR THE YEAR AFFECTED BY BACKWATER FROM ICE.
05/25/1988	UNDEF	6.04	367				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
03/10/1989	UNDEF	12.52	3230				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
06/17/1990	UNDEF	17.54	10600				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
05/16/1991	UNDEF	11.27	2450				PEAK DISCHARGE AND ASSOCIATED GAGE HEIGHT FOR THE YEAR.
08/14/1992	UNDEF	9.50	1540				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
08/31/1993	UNDEF	16.13	6620				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
07/06/1994	UNDEF	13.30	2920				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
05/28/1995	UNDEF	8.43	1040				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
07/17/1996	UNDEF	8.78	1140				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
02/19/1997	UNDEF	8.33	1010				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
06/19/1998	UNDEF	11.09	2010				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
06/27/1999	UNDEF	14.20	3780				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
07/06/2000	UNDEF	9.09	1230				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
03/15/2001	UNDEF	9.68	1280				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
06/11/2002	UNDEF	9.34	1160				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
05/04/2003	UNDEF	9.61	1650				INSTANTANEOUS PEAK FLOW AND PEAK STAGE FOR THE YEAR.
07/09/2004	UNDEF	13.85	3450				
06/21/2005	UNDEF	12.25	2520				
09/11/2006	UNDEF	6.87	536				
05/30/2007	UNDEF	17.09	5950				
05/30/2008	UNDEF	18.15	7270				MAXIMUM PEAK STAGE AND MAXIMUM PEAK FLOW FOR THE YEAR.

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LOW WATER RECORDS

DATE OF LOW WATER	STAGE (ft)	FLOW (CFS)	REMARKS
07/18/1961		26	MINIMUM DAILY DISCHARGE FOR THE YEAR.
01/06/1962		41	MINIMUM DAILY DISCHARGE FOR THE YEAR.
07/26/1963		15	MIN. DAILY "Q" FOR THE YEAR (ALSO 7/27/1963).
07/30/1964		36	MINIMUM DAILY DISCHARGE FOR THE YEAR.
08/17/1965		24	MINIMUM DAILY DISCHARGE FOR THE YEAR.
07/13/1966		18	MINIMUM DAILY DISCHARGE FOR THE YEAR.
08/27/1967		39	MINIMUM DAILY DISCHARGE FOR THE YEAR.
07/29/1968		8	MINIMUM DAILY DISCHARGE FOR THE YEAR.
08/19/1969		41	MINIMUM DAILY DISCHARGE FOR THE YEAR.
07/24/1970		10	MIN. DAILY "Q" FOR THE YEAR (ALSO 7/25-7/27).
08/22/1972		27	MINIMUM DAILY DISCHARGE FOR THE YEAR.
07/19/1973		23	MIN. DAILY "Q" FOR THE YEAR (ALSO 8/30-8/31).
07/25/1974		0	MIN. DAILY "Q" WAS ACTUALLY 0.41 CFS.
08/09/1975		21	MIN. DAILY "Q" FOR THE YEAR (ALSO 8/10/1975).
07/27/1976		1	ACTUAL MIN. DAILY "Q" WAS 0.99 CFS.
08/05/1977		3	ACTUAL MIN. DAILY "Q" WAS 3.2 CFS.
07/19/1978		27	MIN. DAILY "Q" FOR THE YEAR (ALSO 8/05-8/08).
08/09/1979		23	MIN. DAILY "Q" FOR THE YEAR (ALSO 8/10-8/11).
08/05/1980		1	ACTUAL MIN. DAILY "Q" WAS 0.5 CFS.
07/18/1981		4	ACTUAL MIN. DAILY "Q" WAS 3.7 CFS.
10/03/1981		45	MINIMUM DAILY DISCHARGE FOR THE YEAR.
09/08/1983		43	MINIMUM DAILY DISCHARGE FOR THE YEAR.
09/07/1984		49	MIN. DAILY "Q" FOR THE YEAR (ALSO 9/08/1984).
09/03/1985		52	MINIMUM DAILY DISCHARGE FOR THE YEAR.
11/30/1985		78	MINIMUM DAILY DISCHARGE FOR THE YEAR.
08/02/1987		29	MINIMUM DAILY DISCHARGE FOR THE YEAR.
08/03/1988		18	MINIMUM DAILY DISCHARGE FOR THE YEAR.
08/15/1989		1	ACTUAL MIN. DAILY "Q" WAS 1.1 CFS.
08/16/1989	2.60	0	
12/22/1989		17	MINIMUM DAILY DISCHARGE FOR THE YEAR.
08/28/1991		1	ACTUAL MIN. DAILY "Q" WAS 1.3 CFS.
10/01/1991		47	LOWEST DAILY MEAN FOR THE YEAR.
12/31/1992		52	LOWEST DAILY MEAN FOR THE YEAR.
01/30/1994		47	LOWEST DAILY MEAN FOR THE YEAR.
08/12/1995		15	LOWEST DAILY MEAN FOR THE YEAR.
08/03/1996		19	LOWEST DAILY MEAN FOR THE YEAR.
08/09/1997		5	ACTUAL LOWEST DAILY MEAN WAS 4.8 CFS.
08/19/1998		25	LOWEST DAILY MEAN FOR THE YEAR.
08/27/1999		43	LOWEST DAILY MEAN FOR THE YEAR.
08/17/2000		8	ACTUAL LOWEST DAILY MEAN WAS 8.4 CFS.
08/11/2001		3	ACTUAL LOWEST DAILY MEAN WAS 2.5 CFS.
08/03/2002		3	ACTUAL LOWEST DAILY MEAN WAS 3.1 CFS.
08/30/2003		2	ACTUAL LOWESE DAILY MEAN WAS 2.2 CFS.
ACTUAL LOWESE DAILY MEAN WAS 2.2 CFS.			
DATE OF LOW WATER	STAGE (ft)	FLOW (CFS)	REMARKS
08/06/2008		77	LOWEST DAILY MEAN FOR THE YEAR.

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CONDITIONS AFFECTING FLOW

MILES ABOVE MOUTH: 4.0 DRAINAGE AREA: 677.0 POOL STAGE: 0.0

STREAM BED: COMPOSED MAINLY OF FINE SAND OVER A SHALE BOTTOM.

REACH: DOWNSTREAM TO MOUTH, AND A FEW MILES UPSTREAM OF GAGE.

REGULATION: AFFECTED BY ALBION POWERPLANT 25 MILES UPSTREAM WHICH CAUSES DIURNAL FLUCTUATIONS AT LOW FLOWS.

DIVERSION: GROUND WATER AND SURFACE WATER WITHDRAWALS FOR IRRIGATION.

WINTER: CHANNEL SUBJECT TO FREEZING AND ICE JAMS.

TOPOGRAPHY: FLOW UPSTREAM IS STRAIGHT FOR ABOUT 500 FT. THEN CURVES SLIGHTLY TO THE LEFT. DOWNSTREAM IT IS STRAIGHT FOR ABOUT 100 FT. THEN CURVES TO THE RIGHT. THE BANKS ARE FAIRLY HIGH ON BOTH SIDES AND THE RIGHT BANK WILL OVERFLOW AT 15 FT.

REMARKS: BOTH BANKS ARE TIMBERED ADJACENT TO THE STREAM. ROCKS AND TRASH AT THE NEW BRIDGE SITE FORM A RIFFLE CONTROL AT LOW STAGES.

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NWS FORM E-19 PAGE 7: CONDITIONS

DAMAGE

STAGE	AREAS AFFECTED
15.00	THE RIGHT (SOUTH) BANK BEGINS TO FLOOD LOWLAND AREAS BETWEEN THE RIVER AND THE CANAL. THERE ARE PARK PICNIC TABLES ON THE SOUTH SIDE OF THE RIVER WHICH WILL BE SUBJECT TO FLOODING.
17.00	THE LEFT (NORTH) BANK FLOODS, INCLUDING LOW LYING AREAS OF THE CITY PARK AND THE ACCESS ROAD TO THE GAGEHOUSE. THERE ARE HOUSES ON MAPLE STREET ON THE WEST SIDE OF THE PARK. THE HOUSES SHOULD NOT FLOOD UNTIL WATER RISES ENOUGH TO AFFECT THE HIGHER END OF THE CITY PARK. HOWEVER THERE ARE SOME OUTBUILDINGS ADJACENT TO THE NORTH BANK OF THE RIVER WHICH WOULD FLOOD.
18.00	HOUSES ON MAPLE STREET MAY FLOOD...AND THE FAR SOUTH OUTSKIRTS OF GENOA MAY FLOOD.
19.00	WATER WILL BEGIN TO AFFECT THE INTERSECTIONS OF HIGHWAYS 22 AND 39 SOUTH OF GENOA.
20.75	A RECORD FLOOD OF 20.75 FT OCCURRED IN MAY OF 1964. DAMAGE UNKNOWN.

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NWS FORM E-19 PAGE 8: DAMAGE

RIVER STAGE DATA

	22-	
20.75 - A RECORD FLOOD OF 20.75 FT OCCURRED IN MAY OF 1964. DAMAGE UNKNOWN.	20-	20.75 05/26/1964
19.00 - WATER WILL BEGIN TO AFFECT THE INTERSECTIONS OF HIGHWAYS 22 AND 39 SOUTH OF GENOA.	18-	19.39 08/13/1966
18.00 - HOUSES ON MAPLE STREET MAY FLOOD...AND THE FAR SOUTH OUTSKIRTS OF GENOA MAY FLOOD.	18-	18.70 07/19/1950 18.15 05/30/2008
17.00 - THE LEFT (NORTH) BANK FLOODS, INCLUDING LOW LYING AREAS OF THE CITY PARK AND THE ACCESS ROAD TO THE GAGEHOUSE. THERE ARE HOUSES ON MAPLE STREET ON THE WEST SIDE OF THE PARK. THE HOUSES SHOULD NOT FLOOD UNTIL WATER RISES ENOUGH TO AFFECT THE HIGHER END OF THE CITY PARK. HOWEVER THERE ARE SOME OUTBUILDINGS ADJACENT TO THE NORTH BANK OF THE RIVER WHICH WOULD FLOOD.	16-	17.54 06/17/1990 17.09 05/30/2007
15.00 - THE RIGHT (SOUTH) BANK BEGINS TO FLOOD LOWLAND AREAS BETWEEN THE RIVER AND THE CANAL. THERE ARE PARK PICNIC TABLES ON THE SOUTH SIDE OF THE RIVER WHICH WILL BE SUBJECT TO FLOODING.	14-	16.25 07/10/1982
	14-	15.56 02/20/1971
	14-	15.10 06/16/1957
	14-	14.44 06/12/1984
	14-	14.20 06/27/1999
	14-	13.89 06/16/1967
	14-	13.43 06/18/1983
	14-	13.20 06/02/1949
	14-	12.54 05/13/1944
	12-	12.30 08/05/1981
	12-	11.95 06/15/1943
	12-	11.36 03/13/1978
	12-	11.20 06/22/1947
	12-	10.71 03/16/1978
	10-	10.34 08/16/1980
	10-	9.90 06/15/1954
	10-	9.50 08/14/1992
	10-	9.09 07/06/2000
	10-	8.78 07/17/1996
	8-	8.34 06/21/1975
	8-	7.79 05/31/1959
	8-	7.32 05/22/1977
	8-	7.05 01/27/1970
	8-	6.55 01/19/1974
	6-	6.32 06/09/1945
	6-	5.78 06/06/1974
	6-	5.23 06/30/1968
	6-	4.48 08/25/1952
	4-	

REACH: DOWNSTREAM TO MOUTH, AND A FEW MILES UPSTREAM OF GAGE.

ELEVATION ZERO: 1542.13

LOCATION: BEAVER CREEK AT GENOA, NE
ID: GEON1

HSA: GID

Revised, Printed Dates: 04/16/2009, 08/22/2010
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CONTACTS

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1	USGS LINCOLN OFFICE MAINTENANCE.	402-328-4100
2	Andy Zarek River reader wire weight cell phone	402-993-2598 402-649-8152

LOCATION: BEAVER CREEK AT GENOA, NE
ID: GEON1

HSA: GID

Revised, Printed Dates: 04/16/2009, 08/22/2010
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