

NATIONAL WEATHER SERVICE
DENVER CO 80205-2228

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

NWS-FORM E-19A

REPORT ON RIVER GAGE STATION

----- SITE -----

LID: DNVC2 PROXIMITY: AT
NAME: DENVER
STREAM: SOUTH PLATTE RIVER
COUNTY/STATE: Denver, CO BASIN: SOUTH PLATTE

DRAINAGE: 3804.00	FLOOD STAGE: 11.00	STATION NO: PLADENCO
RIVER MILE: 306.00	ACTION STAGE: 9.50	USGS NO: 06714000
ZERO DATUM: 5157.640	BANKFULL STAGE: 10.50	NESS ID: CE51618C
CHECKBAR: 0.000	NORMAL POOL: 0.00	RFC: MBRFC
LATITUDE: 39 45 35	TIDAL EFFECTS: None	HSA: BOU
LONGITUDE: 105 00 10	FLOODCATS: MAJOR: 15.00	
	MODERATE: 13.00	
	MINOR: 11.00	

PERIOD OF RECORD: 5/1/1889 - PRESENT

----- OBSERVER -----

SERVICE DATE: SPONSOR:
CD-404: RATE: \$
HOME PHONE:
WORK PHONE:

DUTIES:
RECIPIENT: COMMS TYPE: TASK:

----- GAGES -----

TELEM TYPE: ALERT	TELEM OWNER: State OGA	PHONE:
DCP ID: CE51618C	DCP OWNER: COEOMA	
LATEST GAGE TYPE float	START DATE 10/01/2001	OWNER OF GAGE State DWR

----- CRESTS -----

	LEVEL	DATE
HIGHEST BASED ON GAGE READING:	10.98	09/10/1933
HIGHEST BASED ON HIGH WATERMARKS:	18.66	06/17/1965
HIGHEST SINCE 1/01/1993:	10.90	07/25/1998
HIGHEST SINCE 1/01/2003:		

----- REMARKS -----

A GROUTED ROCK DAM APPROXIMATELY 50 FEET BELOW THE GAGE WAS BUILT BY THE URBAN DRAINAGE & FLOOD CONTROL DISTRICT IN APRIL 1990. THE DAM HAS BEEN PRESUMED TO ACT AS A CRITICAL FLOW WEIR FOR ALL FLOWS OBSERVED.

HYDROLOGIST: TRESTE' HUSE

REVISED, PRINTED DATES: 10/09/2003, 10/09/2003

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

REPORT ON RIVER GAGE STATION

REVISED, PRINTED DATES: 10/09/2003, 10/09/2003

LOCATION: DENVER

STREAM: SOUTH PLATTE RIVER

BASIN: SOUTH PLATTE

HSA: BOU

REFERENCES:

FLOOD PLAIN INFORMATION, DENVER METROPOLITAN AREA; USCOE, 1963.
REPORT ON FLOODS OF JUNE, 1965 - SOUTH PLATTE BASIN; USCOE, 1967.
SOCDWR STATION DESCRIPTION 02/15/2002
USGS FORM 9-197; 1972.
WRD COLORADO, PART 1 - 1965 THROUGH 1990.

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: DNVC2
NWS INDEX NUMBER: PLADENCO
USGS NUMBER: 06714000

MAP OF GAGE LOCATION

LATITUDE: 39 45 35
LONGITUDE: 105 00 10

SOURCE: STATION DESCRIPTION

LOCATION: SOUTH PLATTE RIVER AT DENVER, CO

ID: DNVC2

HSA: BOU

Revised, Printed Dates: 10/09/2003, 10/09/2003

NWS FORM E-19 PAGE 1: GAGE MAP

BENCHMARKS

ELEVATION OF GAGE ZERO: 5157.640
LEVELING AGENCY AND DATE:
RATING AGENCY: SOCDWR

VERTICAL DATUM:
CHECKBAR: 0.000

BENCHMARK	DESCRIPTION	GAGE ZERO	DATUM
RM1	USGS BRASS CAP IN TOP FLAGSTONE OF THE SE WINWALL OF THE NINETEENTH STREET BRIDGE, APPROXIMATELY 80 FT FROM GAGE, ELEV. 23.46 FT.	23.360	5181.000
RM2	CROSS ON LOWEST FLAGSTONE STEP OF SOUTHEAST WINGWALL OF NINETEENTH STREET BRIDGE, ELEV. 15.36 FT, ESTABLISHED 5/8/67.	15.360	5173.000

GAGES

DCP

TELEM

NESS ID: CE51618C
 OWNER: COEOMA
 REPORT TIME: 00:05:00
 INTERVAL: 240

TYPE OF TELEMETRY: ALERT
 OWNER: State OGA
 PHONE NUMBER:
 INTERVAL: 5
 PAYOR/COST OF LINE: State OGA / \$

GAGE TYPE	OWNER	MAINTENANCE	BEGAN	ENDED	GAGE LOCATION/REMARKS
staff	USGS	USGS	05/01/1889	10/31/1890	STAFF GAGE 1270 FEET DOWNSTREAM AT DIFFERENT DATUM.
staff	USGS	USGS	05/07/1895	06/18/1895	STAFF GAGE 2070 FEET DOWNSTREAM AT DIFFERENT DATUM.
staff	USGS	USGS	07/15/1895	08/11/1909	STAFF GAGES AT VARIOUS SITES AND DATUMS BETWEEN FIFTEENTH STREET BRIDGE AND SIXTEENTH ST. VIADUCT (1830 AND 1330 FT UPSTREAM; LOCATIONS NOT DEFINITE, BUT SAME DATUM WAS USED DURING THE PERIOD).
float	USGS	USGS	08/12/1909	08/28/1931	WATER STAGE RECORDER AT SITE 1330 FEET UPSTREAM AT DATUM 3.66 FEET HIGHER.
float	USGS	USGS	08/29/1931	06/28/1965	WATER STAGE RECORDER AT NINETEENTH ST VIADUCT, 1330 FT UPSTREAM.
float	USGS	USGS	03/19/1965	09/30/2001	WATER STAGE RECORDER AT PRESENT SITE AND DATUM.
wireweight	USGS	USGS	03/19/1965		
float	State OGA	State OGA	04/09/1998		
float	State DWR	State DWR	10/01/2001		

HISTORY

PUBLICATION/LOCATION OF RECORDS	STARTING DATE	ENDING DATE
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TYPE OF GAGE	OWNER	STARTING DATE	ENDING DATE
staff	USGS	05/01/1889	10/31/1890
staff	USGS	05/07/1895	06/18/1895
staff	USGS	07/15/1895	08/11/1909
float	USGS	08/12/1909	08/28/1931
float	USGS	08/29/1931	06/28/1965
float	USGS	03/19/1965	09/30/2001
wireweight	USGS	03/19/1965	
float	State OGA	04/09/1998	
float	State DWR	10/01/2001	

ZERO ELEVATION	STARTING DATE
5157.640	03/19/1965

CRESTS

FLOOD STAGE: 11.00
FLOOD FLOW: 12900

ACTION STAGE: 9.50
ACTION FLOW: 6860

BANKFULL STAGE: 10.50

DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS
09/10/1933	UNDEF	10.98	22000			X	
06/17/1965	UNDEF	18.66	40300	X			
05/07/1973	UNDEF	10.85	17600				
07/25/1998	UNDEF	10.90	13800				

LOW WATER RECORDS

DATE OF LOW WATER	STAGE (ft)	FLOW (CFS)	REMARKS
----- 03/25/1951	-----	----- 8	-----

CONDITIONS AFFECTING FLOW

MILES ABOVE MOUTH: 306.0 DRAINAGE AREA: 3804.0 POOL STAGE: 0.0

STREAM BED: SAND, GRAVEL AND SMALL ROCKS.

REACH: CONFLUENCE OF BEAR CREEK TO CONFLUENCE OF CLEAR CREEK.

REGULATION: REGULATED TO SOME EXTENT BY CHATFIELD DAM, 14.7 MILES UPSTREAM. CONTROL IS A GROUTED ROCK DAM APPROXIMATELY 50 FEET BELOW THE GAGE. THE DAM IS PRESUMED TO ACT AS A CRITICAL FLOW WEIR FOR ALL FLOWS OBSERVED SINCE IT WAS BUILT BY UDFCD IN APRIL 1990.

DIVERSION: TRANSMOUNTAIN AND IRRIGATION DIVERSIONS AND POWER PLANT.

WINTER: RIVER STAYS OPEN DURING WINTER DUE TO WARM EFFLUENTS FROM THE METRO AREA.

TOPOGRAPHY: BANKS ARE COVERED WITH GRASS AND BRUSH AND ARE NOT USUALLY SUBJECT TO OVERFLOW. CHANNEL IS STRAIGHT FOR 1800 FEET ABOVE AND 200 FEET BELOW GAUGE.

REMARKS: CONTROL IS A GROUTED ROCK DAM APPROXIMATELY 50 FEET BELOW THE GAGE WHICH WAS BUILT IN APRIL, 1990. FLOW ALSO AFFECTED BY STORAGE RESERVOIRS. AFFECTED BY DIVERSION FOR IRRIGATION OF ABOUT 79,000 ACRES, AND RETURN FLOW FROM IRRIGATED AREAS.

DAMAGE

STAGE AREAS AFFECTED

8.50 WATER BEGINS TO AFFECT LOWEST SECTIONS OF BIKE PATH/WALKWAY

9.50 ACTION STAGE. RIVER OVERFLOWS BANKS NEAR UNION STATION.

10.50 RIVER OVERFLOWS BANKS NEAR UNION AVENUE STATION

11.00 FLOOD STAGE. CONSIDERABLE OVERBANK FLOW ALONG REACH.

14.00 100 YEAR FLOOD.

18.66 FLOOD OF RECORD - JUNE 15, 1965.

LOCATION: SOUTH PLATTE RIVER AT DENVER, CO

ID: DNVC2

HSA: BOU

Revised, Printed Dates: 10/09/2003, 10/09/2003

NWS FORM E-19 PAGE 8: DAMAGE

RIVER STAGE DATA

18.66 - FLOOD OF RECORD - JUNE 15, 1965.

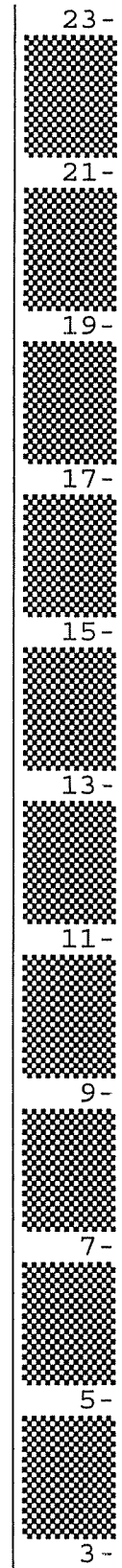
14.00 - 100 YEAR FLOOD.

11.00 - FLOOD STAGE. CONSIDERABLE OVERBANK FLOW ALONG REACH.

10.50 - RIVER OVERFLOWS BANKS NEAR UNION AVENUE STATION

9.50 - ACTION STAGE. RIVER OVERFLOWS BANKS NEAR UNION STATION.

8.50 - WATER BEGINS TO AFFECT LOWEST SECTIONS OF BIKE PATH/WALKWAY



18.66 06/17/1965

10.98 09/10/1933

REACH: CONFLUENCE OF BEAR CREEK TO CONFLUENCE OF CLEAR CREEK.

ELEVATION ZERO: 5157.64

LOCATION: SOUTH PLATTE RIVER AT DENVER, CO

Revised, Printed Dates: 10/09/2003, 10/09/2003

ID: DNV2

HSA: BOU

NWS FORM E-19 PAGE 9: STAFF

DNVC2

STATION DESCRIPTION

Station number: 06714000

South Platte River at Denver, Colorado

Revised by: R. E.. Cooper

Date 02-15-2002

LOCATION: Lat. 39°45'35", Long. 105°00'10", (Arvada, Colo., scale 1:24000, published to nearest 01") in the NE1/4 SE1/4 sec.28, T. 3 S., R. 68W. on right bank 90 ft. upstream from historic Nineteenth Street Bridge and 0.4 mile downstream from the confluence of Cherry Creek. Hydrologic Unit 10190003.

DRAINAGE: 3.804 sq. miles (from topographic map)

GAGE: Stevens A-35 recorder and satellite monitoring in 6x6 ft. concrete shelter over a 60 inch stilling well. Three 2" intakes are valved into a city water line, which is used to flush the pipes. The recorder is set by tape and weight from an adjustable reference point on the edge of recorder shelf. A wire weight gage next to the shelter reads the outside water level by means of cantilever suspension of the weight over the channel.

The DCP is equipped with a speech modem and can be accessed via phone (303-297-9505). The DCP and phone are owned by the USACOE and are maintained by the USGS. The gage has also been equipped with real-time radio telemetry (float-encoder & transmitter) used for flood alerts, and an automated, refrigerated water-sampling system. The Alert equipment is owned by the Urban Drainage and Flood Control District and maintained by DIAD, Inc (Longmont). The water quality equipment is part of a special study funded by the UDFCD and operated by the USGS Colorado District. The water quality equipment has its own phone line (303-297-3185)

Phone lines and the water line have been broken numerous times by Denver Parks construction activities. In some cases, repairs could not be made by contractors who did the damage. In these cases, Colorado DWR or the USACOE have guaranteed payment (to Quest, etc.) for the repair work and forwarded the bill to the appropriate Denver Parks official or general contractor.

Datum of gage is 5,157.64 ft. above mean sea level, datum of 1929, supplementary adjustment of 1960.

The gage is subject to very rapid rises in stage due to urban storms and in the past there have been questions raised about inlet lag. It would be very desirable to have a comparative series of IG vs OG readings under conditions of rapid change.

HISTORY: Station first established May 1, 1889, by the State Engineer's Office at a site 1270 ft. downstream at the foot of Twenty-first Street. Non-recording gage at different datum in use until October 31, 1890.

The station was re-established May 7, 1895, at site 2070 ft. downstream at Twenty-Third St. viaduct. Non-recording gage to June 18, 1895 at different datum. (No record published.)

July 15, 1895 to August 11, 1909, recording and non-recording gage at one or more sites between Fifteenth St. bridge and Sixteenth St. Viaduct. (1,830 and 1330 ft. upstream; locations not definite, but same datum was used during the period.)

August 12, 1909 to August 28, 1931, water stage recorder at Sixteenth St. viaduct, 1330 ft. upstream.

August 29, 1931 to June 28, 1965, water stage recorder at Nineteenth St. Bridge, 90 ft. downstream at datum 3.66 ft. higher.

June 29, 1965 to March 18, 1966, water-stage recorder at site 70 ft. downstream at present datum.

Since March 19, 1965, water stage recorder at present site and datum.

REFERENCE AND BENCHMARKS: R.M. nos. 3, 4, 5, 6 destroyed.

R.M. No. 1: USGS Brass cap in top flagstone of the SE Wingwall of the Nineteenth St. bridge, apx. 80 ft. from gage, elevation = 23.46

R.M. No. 2: Cross on Lowest flagstone step of SE Wingwall of Nineteenth St. Bridge, Elevation = 15.36, established 5-8-67

RP Elevation = 19.83 = Tape length

PZF, Inlet Elevations, & Wire Weight Check Bar Elevation—Not determined.

CHANNEL AND CONTROL: The control is a grouted rock dam approximately 50 feet below the gage. The dam has been presumed to act as a critical flow weir for all flows observed since it was built by the Urban Drainage and Flood Control District in April 1990. However, measurements and observations have not been made for flood conditions.

Directly across the channel from the gage, and above the control, is a spillback gate for the Farmers and Gardeners Ditch. This flow goes directly into the control pool. The spillback chute to the river is very steep. Flows are very shallow, very turbulent, air entrained, extremely fast and practically unmeasurable with Price meters. During routine operation of the ditch, this flow is often estimated at about 10 cfs. The ditch rider states that the headgate will draw about 35 cfs from the river and the ditch is decreed at 24 cfs. The remainder is spilled.

DISCHARGE MEASUREMENTS: Low to medium stages measured by wading 50 to 100 ft. above the gage. High flows are cabled from the Fifteenth St. Bridge.

FLOODS: Maximum discharge, 40,300 cfs June 17, 1965 (gage height, 18.66 ft, from floodmarks.) on the basis of contracted-opening measurement of peak flow

POINT OF ZERO FLOW: Not determined.

WINTER FLOW: River stays open during winter due to warm effluents from the Metro area.

REGULATION AND DIVERSION: Natural flow of stream affected by trans-mountain diversions, storage reservoirs, diversions for irrigation of about 79,000 acres, and return flow from irrigated areas.

ACCURACY: With frequent measurements, records should be good.

COOPERATION: Station maintained by State Engineer of Colorado, in cooperation with U.S.G.S.

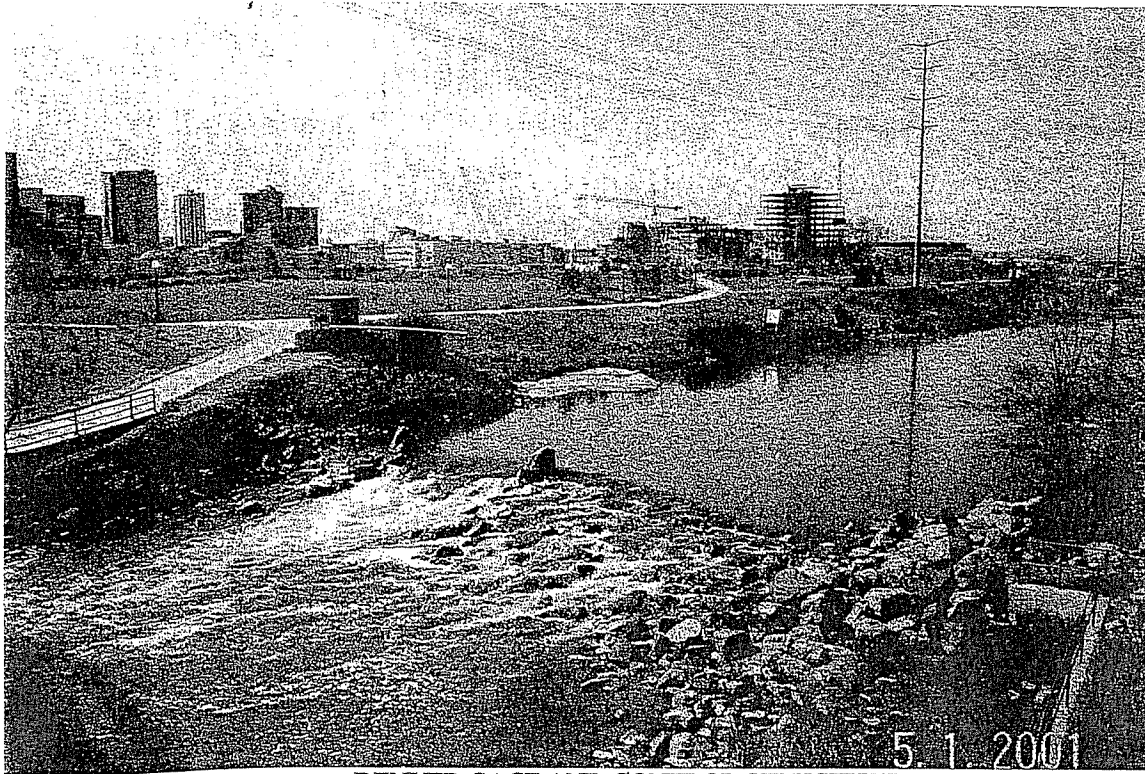
PURPOSE: Flow measurement for administration of water rights by the State Engineer. Water Quality monitoring site and flood alert gage.

JOB HAZARD ANALYSIS SUMMARY: This is a highly regulated site in an urban setting and subject to human control. Use caution at all times when traversing steep banks, and when near the boulder control. Drowning is a potential hazard--beware of swift and/or deep water. A PFD is to be used when working in or over water. Slipping/falling hazards exist where shale bottom is exposed and during the winter period. Summer hazards include lightning during thunderstorms and stinging insects. Bridge measurements can be made from the sidewalk on the north side of the Fifteenth street bridge. However, the sidewalk should be closed to pedestrian and bicycle traffic during the measurement. People moving around the crane often step off or nearly off the sidewalk and are at considerable danger from wide vehicles travelling west on Fifteenth Street. Human traffic past the gage can also be troublesome, as many transient individuals frequent the area. The area is used for free parking during Rockies games and LoDo festivals and this also brings in a diverse human element.

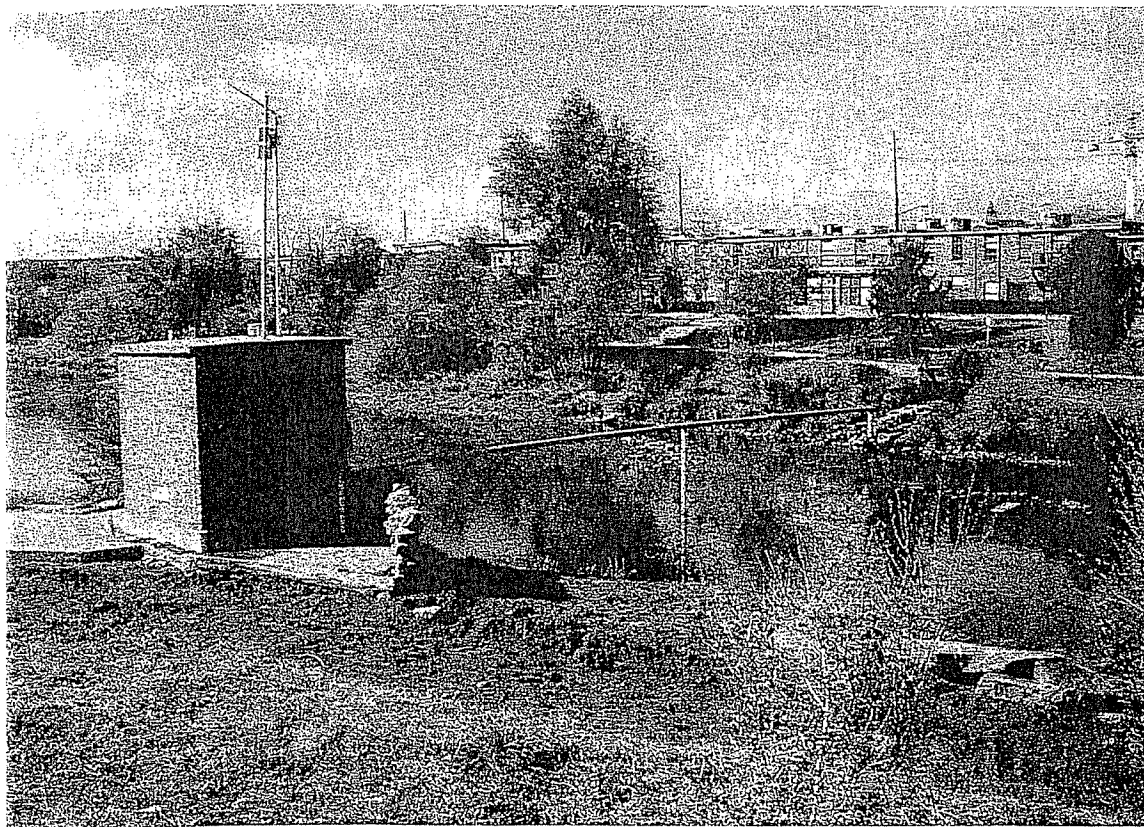
ROAD LOG: Take Interstate 25 to Twentieth Street. Proceed East, cross the river, and take the first street south to Nineteenth street. Turn back West toward the historic Nineteenth St. bridge over the river. The gage is visible about 90 ft. South of the old bridge.

From downtown, take Fifteenth Street northwest to Grinnell Street. Turn right (north) and proceed through the park to the corner of Grinnell and Nineteenth Street. Turn left (west); the old bridge and gage are just ahead.

Vehicles can be parked on the old bridge or on the park sidewalk. Allow some clearance for bicycle and pedestrian traffic.



DENVER GAGE AND CONTROL STRUCTURE



FARMERS AND GARDENERS' DITCH SPILLBACK ON OPPOSITE BANK FROM GAGE

STATE OF COLORADO
Division of Water Resources
OFFICE OF THE STATE ENGINEER

Rating Table ID: PLADENCO33
Time of last edit: 10/24/2002 13:51

Gage	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09	DIFF
1.00											
.10											
.20											
.30											
.40											
.50											
.60											
.70	0.00	0.333	0.667	1.00	1.33	1.67	2.00	2.33	2.67	3.00	
.80	3.33	3.67	4.00	4.33	4.67	5.00	5.33	5.67	6.00	6.33	3.33
.90	6.67	7.00	7.33	7.67	8.00	8.33	8.67	9.00	9.33	9.67	3.34
2.00	10.0	11.0	11.9	12.8	13.8	14.8	15.7	16.6	17.6	18.6	3.33
.10	19.5	20.4	21.4	22.4	23.3	24.2	25.2	26.2	27.1	28.0	9.50
.20	29.0	29.9	30.8	31.7	32.6	33.5	34.4	35.3	36.2	37.1	9.50
.30	38.0	39.0	39.9	40.8	41.8	42.8	43.7	44.6	45.6	46.6	9.00
.40	47.5	48.6	49.6	50.6	51.7	52.8	53.8	54.8	55.9	57.0	9.50
.50	58.0	59.2	60.4	61.6	62.8	64.0	65.2	66.4	67.6	68.8	10.5
.60	70.0	71.4	72.8	74.2	75.6	77.0	78.4	79.8	81.2	82.6	12.0
.70	84.0	85.6	87.2	88.8	90.4	92.0	93.6	95.2	96.8	98.4	14.0
.80	100	102	103	105	107	108	110	112	114	115	16.0
.90	117	119	122	124	127	129	131	134	136	139	17.0
3.00	141	144	146	149	151	154	157	159	162	164	24.0
.10	167	170	173	176	179	182	184	187	190	193	26.0
.20	196	199	202	205	208	211	214	217	220	223	29.0
.30	226	229	233	236	239	242	246	249	252	256	30.0
.40	259	262	266	270	273	276	280	284	287	290	33.0
.50	294	298	302	305	309	313	317	321	324	328	35.0
.60	332	336	340	344	348	352	356	360	364	368	38.0
.70	372	376	380	385	389	393	397	401	406	410	40.0
.80	414	418	423	428	432	436	441	446	450	454	42.0
.90	459	464	468	473	478	482	487	492	497	501	45.0
4.00	506	511	516	521	526	530	535	540	545	550	47.0
.10	555	560	565	571	576	581	586	591	597	602	49.0
.20	607	612	618	623	629	634	639	645	650	656	52.0
.30	661	667	672	678	683	689	695	700	706	711	54.0
.40	717	723	729	735	741	746	752	758	764	770	56.0
.50	776	782	788	795	801	807	813	819	826	832	59.0
.60	838	844	851	857	863	870	876	882	888	895	62.0
.70	901	908	914	921	927	934	941	947	954	960	63.0
.80	967	974	982	989	996	1000	1010	1020	1030	1030	66.0
.90	1040	1050	1050	1060	1070	1080	1080	1090	1100	1100	73.0
5.00	1110	1120	1120	1130	1140	1140	1150	1160	1170	1170	70.0
.10	1180	1190	1200	1200	1210	1220	1230	1240	1240	1250	70.0
.20	1260	1270	1270	1280	1290	1300	1300	1310	1320	1320	80.0
.30	1330	1340	1350	1360	1370	1380	1380	1390	1400	1410	70.0
.40	1420	1430	1440	1440	1450	1460	1470	1480	1480	1490	90.0
.50	1500	1510	1520	1520	1530	1540	1550	1560	1560	1570	80.0
.60	1580	1590	1600	1610	1620	1620	1630	1640	1650	1660	80.0
.70	1670	1680	1690	1700	1710	1720	1720	1730	1740	1750	90.0
.80	1760	1770	1780	1790	1800	1810	1820	1830	1840	1850	90.0
.90	1860	1870	1880	1890	1900	1900	1910	1920	1930	1940	100
6.00	1950	1960	1970	1980	1990	2000	2010	2020	2030	2040	90.0
.10	2050	2060	2070	2080	2090	2100	2110	2120	2130	2140	100
.20	2150	2160	2170	2180	2190	2200	2210	2220	2230	2240	100

STATE OF COLORADO
 Division of Water Resources
 OFFICE OF THE STATE ENGINEER

Rating Table ID: PLADENCO33
 Time of last edit: 10/24/2002 13:51

Gage	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09	DIFF
.30	2250	2260	2270	2280	2290	2300	2320	2330	2340	2350	100
.40	2360	2370	2380	2390	2400	2420	2430	2440	2450	2460	110
.50	2470	2480	2490	2500	2510	2520	2540	2550	2560	2570	110
.60	2580	2590	2600	2610	2620	2640	2650	2660	2670	2680	110
.70	2690	2700	2710	2720	2730	2740	2760	2770	2780	2790	110
.80	2800	2810	2820	2840	2850	2860	2870	2880	2900	2910	110
.90	2920	2930	2940	2960	2970	2980	2990	3000	3020	3030	120
7.00	3040	3050	3060	3080	3090	3100	3110	3120	3140	3150	120
.10	3160	3170	3190	3200	3210	3220	3240	3250	3260	3280	120
.20	3290	3300	3320	3330	3340	3360	3370	3380	3390	3410	130
.30	3420	3430	3450	3460	3480	3490	3500	3520	3530	3550	130
.40	3560	3580	3590	3600	3620	3640	3650	3660	3680	3700	140
.50	3710	3730	3740	3760	3770	3790	3810	3820	3840	3850	150
.60	3870	3890	3900	3920	3940	3960	3970	3990	4010	4020	160
.70	4040	4060	4080	4090	4110	4130	4150	4170	4180	4200	170
.80	4220	4240	4260	4280	4300	4320	4330	4350	4370	4390	180
.90	4410	4430	4450	4470	4490	4510	4530	4550	4570	4590	190
8.00	4610	4630	4650	4670	4690	4710	4730	4750	4770	4790	200
.10	4810	4830	4850	4870	4890	4920	4940	4960	4980	5000	200
.20	5020	5040	5060	5080	5100	5120	5150	5170	5190	5210	210
.30	5230	5250	5270	5300	5320	5340	5360	5380	5410	5430	210
.40	5450	5470	5490	5520	5540	5560	5580	5600	5630	5650	220
.50	5670	5690	5720	5740	5760	5780	5810	5830	5850	5880	220
.60	5900	5920	5950	5970	5990	6020	6040	6060	6080	6110	230
.70	6130	6150	6180	6200	6230	6250	6270	6300	6320	6350	230
.80	6370	6390	6420	6440	6470	6490	6510	6540	6560	6590	240
.90	6610	6640	6660	6680	6710	6740	6760	6780	6810	6840	240
9.00	6860	6880	6910	6940	6960	6980	7010	7040	7060	7080	250
.10	7110	7140	7160	7190	7210	7240	7270	7290	7320	7340	250
.20	7370	7400	7420	7450	7470	7500	7530	7550	7580	7600	260
.30	7630	7660	7680	7710	7740	7760	7790	7820	7850	7870	260
.40	7900	7930	7950	7980	8010	8040	8060	8090	8120	8140	270
.50	8170	8200	8230	8250	8280	8310	8340	8370	8390	8420	270
.60	8450	8480	8510	8530	8560	8590	8620	8650	8670	8700	280
.70	8730	8760	8790	8820	8850	8880	8900	8930	8960	8990	280
.80	9020	9050	9080	9110	9140	9160	9190	9220	9250	9280	290
.90	9310	9340	9370	9400	9430	9460	9490	9520	9550	9580	290
10.00	9610	9640	9670	9700	9730	9760	9790	9820	9850	9880	300
.10	9910	9940	9970	10000	10000	10100	10100	10100	10100	10200	300
.20	10200	10200	10300	10300	10300	10400	10400	10400	10400	10500	290
.30	10500	10500	10600	10600	10700	10700	10700	10800	10800	10900	300
.40	10900	10900	11000	11000	11000	11000	11100	11100	11100	11200	400
.50	11200	11200	11300	11300	11300	11400	11400	11400	11400	11500	300
.60	11500	11500	11600	11600	11600	11600	11700	11700	11700	11800	300
.70	11800	11800	11900	11900	12000	12000	12000	12100	12100	12200	300
.80	12200	12200	12300	12300	12300	12400	12400	12400	12400	12500	400
.90	12500	12500	12600	12600	12700	12700	12700	12800	12800	12900	300
11.00	12900	12900	13000	13000	13000	13000	13100	13100	13100	13200	400
.10	13200	13200	13300	13300	13400	13400	13400	13500	13500	13600	300
.20	13600	13600	13700	13700	13700	13800	13800	13800	13800	13900	400
.30	13900	13900	14000	14000	14100	14100	14100	14200	14200	14300	300
.40	14300	14300	14400	14400	14500	14500	14500	14600	14600	14700	400
.50	14700	14700	14800	14800	14900	14900	14900	15000	15000	15100	400

STATE OF COLORADO
 Division of Water Resources
 OFFICE OF THE STATE ENGINEER

Rating Table ID: PLADENCO33
 Time of last edit: 10/24/2002 13:51

Gage	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09	DIFF
.60	15100	15100	15200	15200	15200	15200	15300	15300	15300	15400	400
.70	15400	15400	15500	15500	15600	15600	15600	15700	15700	15800	300
.80	15800	15800	15900	15900	16000	16000	16000	16100	16100	16200	400
.90	16200	16200	16300	16300	16400	16400	16400	16500	16500	16600	400
12.00	16600	16600	16700	16700	16800	16800	16800	16900	16900	17000	400
.10	17000										400
.20											
.30											
.40											
.50											
.60											
.70											
.80											
.90											
13.00											

Water Resources

Data Category:
Surface Water

Geographic Area:
Colorado

GO

Peak Streamflow for Colorado

USGS 06714000 SOUTH PLATTE RIVER AT DENVER, CO.

Available data for this site Station home page

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Denver County, Colorado Hydrologic Unit Code 10190003 Latitude 39°45'35", Longitude 105°00'10" NAD27 Drainage area 3,861.00 square miles Gage datum 5,157.64 feet above sea level NGVD29				Output formats Table Graph Tab-separated file WATSTORE formatted file Reselect output format			
Water Year	Date	Gage Height (feet)	Stream-flow (cfs)	Water Year	Date	Gage Height (feet)	Stream-flow (cfs)
1895	Aug. 02, 1895		1,940 ¹	1950	Jun. 16, 1950	4.23	4,290 ⁵
1896	Oct. 07, 1895		1,090 ¹	1951	Aug. 03, 1951	4.57	5,470 ⁵
1897	Aug. 05, 1897		2,420 ¹	1952	May 24, 1952	3.06	1,850 ⁵
1898	May 28, 1898		2,310 ¹	1953	Jul. 09, 1953	4.07	4,290 ⁵
1899	Aug. 05, 1899		1,420	1954	Jul. 21, 1954	2.94	2,010 ⁵
1900	Apr. 29, 1900		5,980	1955	Aug. 28, 1955	3.87	3,800 ⁵
1901	Jun. 15, 1901		1,390 ¹	1956	Aug. 01, 1956	4.93	5,920 ⁵
1903	Jun. 16, 1903		1,240 ⁵	1957	May 15, 1957	4.67	4,920 ⁵
1904	Jun. 03, 1904		1,700 ⁵	1958	May 08, 1958	3.76	3,080 ⁵
1905	May 04, 1905		2,200 ⁵	1959	May 21, 1959	2.12	1,930 ⁵
1906	May 26, 1906		1,020 ⁵	1960	Jul. 03, 1960	2.71	2,820 ⁵
1909	Aug. 07, 1909		5,100 ⁵	1961	Jul. 31, 1961	2.66	2,200 ⁵
1910	Jul. 30, 1910		1,600 ⁵	1962	Jun. 29, 1962	2.42	1,610 ⁵
1911	Aug. 11, 1911		2,900 ⁵	1963	Jun. 15, 1963	4.35	4,700 ⁵
1912	Jul. 14, 1912		13,000 ⁵	1964	May 29, 1964	2.94	3,020 ⁵
1913	Jul. 25, 1913		4,000 ⁵	1965	Jun. 17, 1965	15.00	40,300 ⁵
1914	May 21, 1914		9,480 ⁵	1966	Jul. 21, 1966	5.18	2,670 ⁵

1915	Apr. 27, 1915		2,620 ⁵
1916	Aug. 04, 1916		2,400 ⁵
1917	May 25, 1917		2,400 ⁵
1918	Jun. 24, 1918		3,050 ⁵
1919	Aug. 01, 1919		4,650 ⁵
1920	Aug. 03, 1920		2,410 ⁵
1921	Jun. 08, 1921		8,790 ⁵
1922	Jul. 28, 1922		5,850 ⁵
1923	Jul. 12, 1923		4,200 ⁵
1924	Jun. 04, 1924		2,950 ⁵
1925	Aug. 12, 1925		1,310 ⁵
1926	Apr. 22, 1926		3,190 ⁵
1927	Aug. 14, 1927		1,890 ⁵
1928	Jun. 03, 1928		1,930 ⁵
1929	Aug. 06, 1929		2,140 ⁵
1930	Aug. 04, 1930		3,250 ⁵
1931	Aug. 16, 1931		2,680 ⁵
1932	Jul. 13, 1932	3.44	2,000 ⁵
1933	Sep. 10, 1933	10.98	22,000 ⁵
1934	Aug. 09, 1934	3.30	1,300 ⁵
1935	May 31, 1935	8.10	12,320 ⁵
1936	Aug. 12, 1936	4.79	4,020 ⁵
1937	Jun. 01, 1937	5.35	5,280 ⁵
1938	Aug. 28, 1938	5.60	5,870 ⁵
1939	Mar. 10, 1939	5.10	4,790 ⁵
1940	Sep. 10, 1940	4.14	2,480 ⁵
1941	Jun. 22, 1941	4.98	4,000 ⁵
1942	Apr. 25, 1942	8.09	10,200 ⁵
1943	Jul. 21, 1943	3.20	1,400 ⁵
1944	Jun. 08, 1944	4.32	2,500 ⁵
1945	Aug. 06, 1945	6.14	6,280 ⁵
1946	Jul. 18, 1946	4.86	3,530 ⁵

1967	Jul. 07, 1967	6.63	5,460 ⁵
1968	Aug. 13, 1968	5.25	2,780 ⁵
1969	May 07, 1969	10.47	21,100 ⁵
1970	Jun. 11, 1970	6.58	6,330 ⁵
1971	Aug. 19, 1971	4.97	3,130 ⁵
1972	Jun. 04, 1972	5.05	3,380 ⁵
1973	May 07, 1973	10.85	17,600 ⁵
1974	Jun. 08, 1974	5.35	3,390 ⁵
1975	Jul. 20, 1975	7.88	7,600 ⁶
1976	Sep. 27, 1976	4.79	2,140 ⁶
1977	Jul. 25, 1977	4.69	2,120 ⁶
1978	May 17, 1978	4.43	1,720 ⁶
1979	Aug. 16, 1979	6.09	4,260 ⁶
1980	May 07, 1980	6.59	4,890 ⁶
1981	May 28, 1981	4.58	1,740 ⁶
1982	May 12, 1982	5.57	3,220 ⁶
1983	Jun. 27, 1983	7.29	6,600 ⁶
1984	Aug. 20, 1984	7.32	6,840 ⁶
1985	Jul. 19, 1985	7.70	8,280 ⁶
1986	Jul. 20, 1986	5.68	5,060 ⁶
1987	Jun. 08, 1987	7.77	12,200 ⁶
1988	Aug. 04, 1988	5.54	6,100 ⁶
1989	Jun. 03, 1989	4.45	4,210 ⁶
1990	May 29, 1990	7.10	5,200 ⁶
1991	Jun. 01, 1991	8.01	7,460 ⁶
1992	Aug. 24, 1992	8.42	6,170 ⁶
1993	Jun. 18, 1993	6.33	2,720 ⁶
1994	Aug. 10, 1994	7.92	5,460 ⁶
1995	Jun. 04, 1995	9.42	8,440 ⁶
1996	Jul. 12, 1996	7.40	3,750 ⁶
1997	Aug. 11, 1997	8.64	6,220 ⁶
1998	Jul. 25, 1998	10.90	12,600 ⁶

1947	Jun. 22, 1947	4.98	3,920 ⁵	1999	Aug. 05, 1999	8.37	5,150 ⁶
1948	Apr. 30, 1948	4.45	3,440 ⁵	2000	Aug. 17, 2000	8.31	5,410 ⁶
1949	Jun. 14, 1949	6.21	8,800 ⁵	2001	Jul. 08, 2001	9.63	8,620 ⁶
				2002	Sep. 13, 2002	6.15	2,090 ⁶

Peak Streamflow Qualification Codes.

- 1 -- Discharge is a Maximum Daily Average
- 5 -- Discharge affected to unknown degree by Regulation or Diversion
- 6 -- Discharge affected by Regulation or Diversion

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Surface Water for Colorado: Peak Streamflow

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