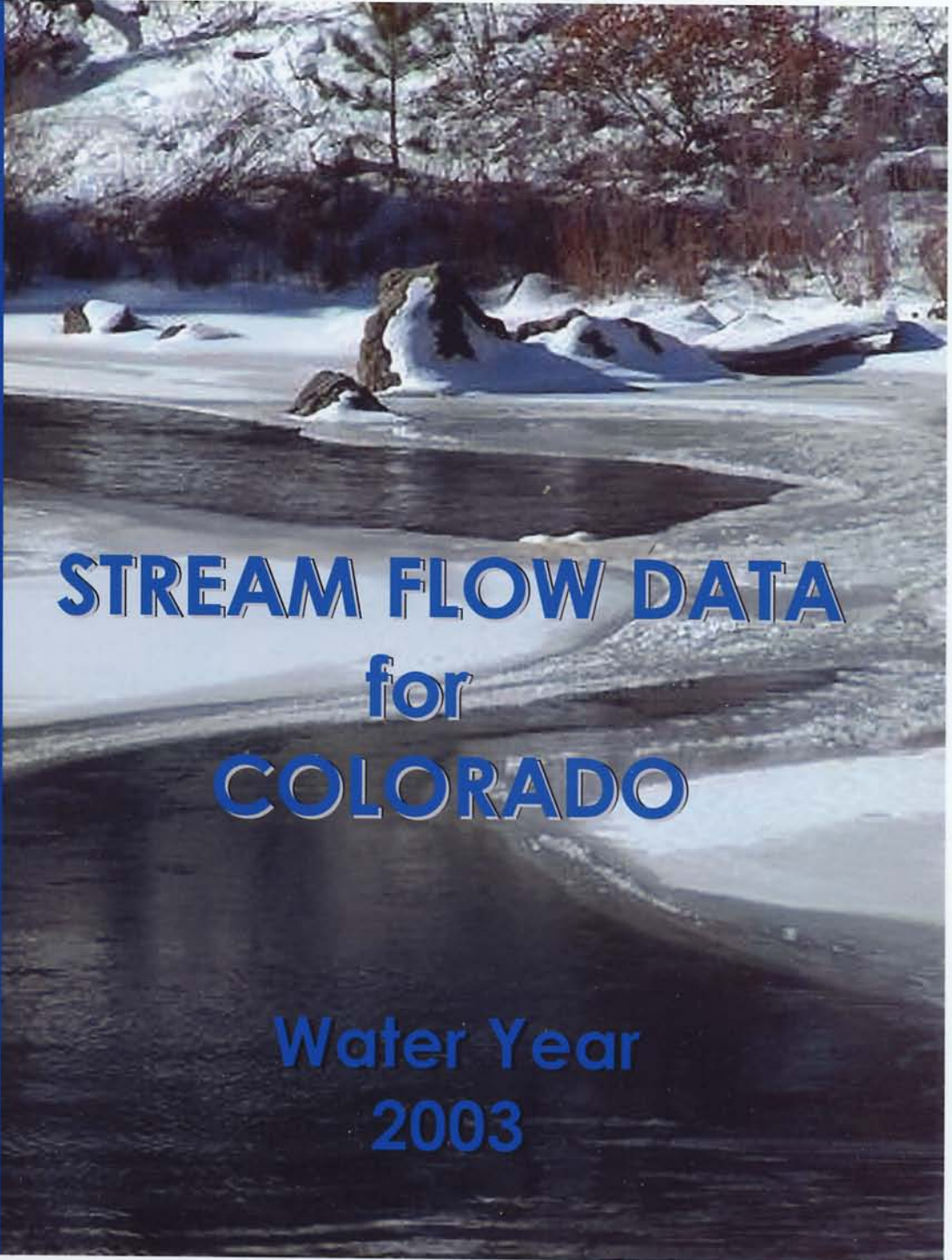




Compiled by the
Hydrographic Branch
Edited by Dave
Dzurovchin



STREAM FLOW DATA for COLORADO

Water Year 2003



Governor Bill Owens
State of Colorado



Executive Director Russell George
Department of Natural Resources

State Engineer Hal D. Simpson
Division of Water Resources

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PLATTE RIVER BASIN

06694650 SOUTH FORK SOUTH PLATTE RIVER BELOW ANTERO RESERVOIR

LOCATION.--Lat 38°33'26", long 105°53'22", 1500 ft below Antero Reservoir.

DRAINAGE AREA.--N/A

GAGE.--Satellite monitoring and graphic recorder on a 12 foot Parshall flume with a wooden shelter, concrete well and staff gage. The weekly recorder has an expanded scale (One division equals 0.02 ft.) which can be read to 0.005 foot. A 15 ft. wide by-pass channel, closed by adjustable gate, is cut into the bank about 40 ft. above the flume. The new Cipolletti outlet weir will be brought into operation in 2004. Gage is owned and maintained by the Denver Water Dept.

REMARKS.--Primary record is hourly data taken from satellite readings with chart back up. DCP data usually agrees with chart data to within ±0.02 foot, but chart frequently shows corrections when changed. The record is complete and reliable except for December 23 through April 7, which are ice affected. Chart mean daily values were used for the period April 8 through May 22, when the shaft encoder was inoperable. The record is good, except for Dec 23-April 7 which are estimated and poor. Record developed and satellite monitoring maintained by Michael Garner.

RATING TABLE.--STD12FTFF USED FROM 01-OCT-2002 TO 09-OCT-2003

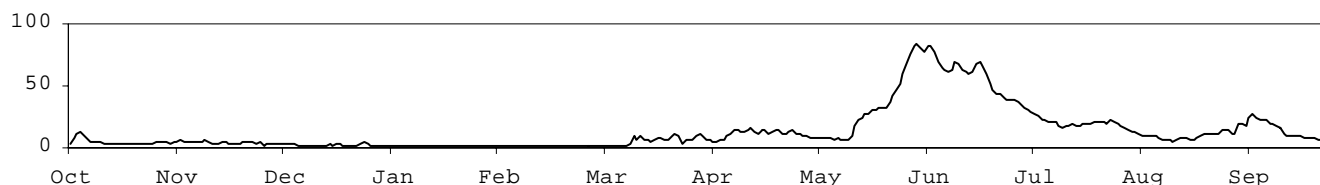
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	5.1	3	2	2	2	12	9.9	76	38	17	14
2	7.8	5.9	3.1	2	2	2	10	9.5	83	37	16	12
3	12	5.1	3.2	2	2	2	7	8.7	84	35	14	11
4	13	4.9	2.7	2	2	2	7	8.3	80	32	13	19
5	10	4.8	3	2	2	2	5	8.7	77	30	13	20
6	6.7	4.2	2.2	2	2	2	5	8.7	82	29	11	17
7	5.3	4.3	2.4	2	2	2	6	7.9	82	27	10	24
8	4.7	4.9	2.2	2	2	2	6.8	7.5	77	26	10	27
9	4.2	5.8	2	2	2	2	9.5	7.9	70	23	10	24
10	4.1	4.6	1.8	2	2	2	11	6.4	65	22	10	23
11	3.5	3.4	2.2	2	2	2	14	7.7	63	21	10	23
12	2.9	3.3	1.2	2	2	3	14	7.2	62	21	8.5	22
13	2.9	3.4	1.1	2	2	10	13	7.2	63	21	7	20
14	3	4.9	1.8	2	2	7	13	7.1	69	17	6.3	19
15	3.3	4.3	2.7	2	2	10	14	9.1	68	16	6	18
16	3.6	2.8	2.2	2	2	6	16	17	63	17	5.6	16
17	3	3.5	2.5	2	2	6	13	22	61	18	6.6	12
18	2.9	3	2.6	2	2	5	12	25	59	19	7.6	9.9
19	2.7	3.6	2.1	2	2	7	14	28	61	18	7.8	9.5
20	2.9	4.3	1.6	2	2	8	14	27	68	17	8.5	9.9
21	3.1	4.7	1.4	2	2	8	12	30	70	19	6.9	10
22	2.8	4.8	1.3	2	2	7	13	31	66	20	6.3	9.4
23	3	5	2	2	2	7	14	32	59	20	8.1	8.6
24	3.6	3.9	4	2	2	9	15	32	52	21	10	8.2
25	3.5	4.1	5	2	2	11	12	33	46	21	11	7.4
26	4.1	2.2	3	2	2	9	11	37	43	21	12	7.5
27	4.5	2.7	2	2	2	4	13	42	43	21	12	7.1
28	5.2	2.5	2	2	2	6	14	46	41	20	12	7
29	4.4	2.9	2	2	---	7	12	52	39	23	12	7.1
30	2.9	3.2	2	2	---	6	11	59	38	21	14	7.2
31	4.9	---	2	2	---	10	---	68	---	19	15	---
TOTAL	144.4	122.1	72.3	62	56	168	343.3	702.8	1910	710	317.2	429.8
MEAN	4.7	4.1	2.3	2	2	5.4	11.4	22.7	64	23	10.2	14.3
AC-FT	286	242	143	123	111	333	681	1390	3790	1410	629	853
MAX	13	5.9	5	2	2	11	16	68	84	38	17	27
MIN	2.7	2.2	1.1	2	2	2	5	6.4	38	16	5.6	7

WTR YR 2003 TOTAL 5037.9 MEAN 13.8 MAX 84 MIN 1.1 AC-FT 9990

MAX DISCH: 85.7 CFS AT 15:00 ON Jun. 2, 2003 GH 1.45 FT. SHIFT 0.01 FT.
MAX GH: 1.45 FT. AT 15:00 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06694920 SOUTH PLATTE RIVER ABOVE SPINNEY MOUNTAIN RESERVOIR, CO

LOCATION.--Lat 38°59'10", long 105°40'52".

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder and satellite monitoring at a 25-foot concrete Parshall flume with a wooden shelter and concrete well with inside electric tape gage and in-flume staff gage. Gage is operated and equipment is maintained by the city of Aurora.

REMARKS.--Record is taken from hourly satellite readings and is complete except for November 7, 2002 to April 3, 2003 when the station was closed for the winter. Satellite daily gage heights agree with chart data to ±0.02 ft. Encoder calibration was checked with 52 visits while the gage was open. The record is good, except for November 7, 2002 - April 3, 2003 which is estimated and poor, and October 30-November 6 which is fair due to possible ice affect. Record developed by Michael R. Garner.

RATING TABLE.--STD25FTPF USED FROM 01-OCT-2002 TO 07-NOV-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

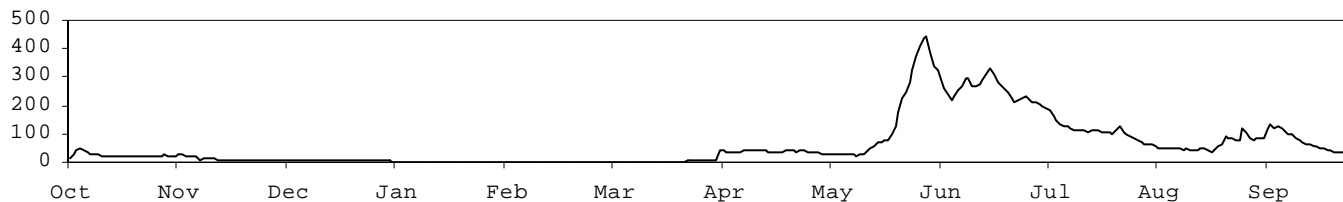
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	26	5	3	1	3	10	34	437	224	77	106
2	29	26	5	3	1	3	10	33	441	211	68	85
3	42	22	5	3	1	3	10	31	387	209	60	80
4	48	20	5	3	1	3	45	30	337	207	63	88
5	40	18	5	3	1	3	42	30	327	199	62	84
6	32	20	5	3	1	3	36	30	305	192	59	82
7	28	8.5	5	3	1	3	32	28	263	182	51	119
8	26	15	5	3	1	3	32	27	239	161	50	137
9	25	15	5	3	1	3	35	27	219	147	50	119
10	23	15	5	3	1	3	37	26	232	137	51	127
11	22	15	5	3	1	3	41	25	255	130	51	120
12	21	10	5	3	1	3	44	25	270	126	46	108
13	20	10	5	3	1	3	44	24	296	121	47	100
14	21	10	5	3	1	3	42	25	294	116	44	100
15	20	10	5	3	1	3	43	30	270	115	46	86
16	20	10	5	3	1	3	40	45	271	112	40	76
17	20	10	5	3	1	3	41	51	273	115	40	67
18	19	10	5	3	1	3	36	56	289	107	45	60
19	19	10	5	3	1	3	35	69	311	110	50	60
20	19	10	5	3	1	3	37	72	333	115	47	57
21	19	10	5	3	1	3	37	77	313	116	39	53
22	19	10	5	3	1	3	38	80	285	106	36	51
23	20	10	5	3	1	3	42	96	277	109	45	47
24	22	10	5	3	1	3	41	126	264	105	54	42
25	21	10	5	3	1	3	40	176	247	101	62	40
26	21	10	5	3	1	10	37	226	224	112	90	38
27	23	10	5	3	1	10	40	249	213	127	86	36
28	25	10	5	3	1	10	41	283	216	104	84	35
29	23	10	5	3	---	10	38	327	228	100	76	35
30	20	10	5	3	---	10	36	373	229	95	80	35
31	23	---	5	3	---	10	---	406	---	85	121	---
TOTAL	746	390.5	155	93	28	135	1082	3137	8545	4196	1820	2273
MEAN	24	13	5	3	1	4.4	36	101	285	135	59	76
AC-FT	1480	775	307	184	56	268	2150	6220	16950	8320	3610	4510
MAX	48	26	5	3	1	10	45	406	441	224	121	137
MIN	16	8.5	5	3	1	3	10	24	213	85	36	35

WTR YR 2003 TOTAL 22600.5 MEAN 61.9 MAX 441 MIN 1 AC-FT 44830

MAX DISCH: 453 CFS AT 02:30 ON Jun. 2, 2003 GH 2.64 FT. SHIFT 0.02 FT.

MAX GH: 2.64 FT. AT 02:30 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06695000 SOUTH PLATTE RIVER ABOVE ELEVENMILE CANYON RESERVOIR, NEAR HARTSEL, CO

LOCATION.--Lat 38°58'03", long 105°34'51", in NE¼ sec. 32, T.12 S., R.73 W., Park County, Hydrologic Unit 10190001, on left bank 200 ft downstream from highway bridge, 2.5 mi upstream from water line of Elevenmile Canyon Reservoir, at elevation 8,561 ft. and 13 mi southeast of Hartsel.

DRAINAGE AREA AND PERIOD OF RECORD.--880 mi²; 1933 to present.

GAGE.--Water-stage recorder with satellite telemetry in a wooden shelter at a 25' Parshall flume. Datum of gage is 8,612.83 ft. (Denver Board of Water Commissioners Datum). Station is owned and maintained by the Denver Water Dept. Satellite telemetry is maintained by the U. S. Army Corps of Engineers and the USGS.

REMARKS.--Primary record is hourly data taken from satellite readings with chart back-up. Chart back-up was unavailable July 27, 2003 through August 11, 2003. Hourly data is verified for this period using City of Aurora Spinney Mountain Operations data. Spinney Mountain Reservoir release in CFS coincides closely with the CFS at this gage. Record is complete and reliable. Warmer water from Spinney Reservoir release keeps this gage open year round. The record is considered good. Record is developed by Michael R. Garner.

RATING TABLE.--STD25FTPF USED FROM 01-OCT-2002 TO 08-OCT-2003

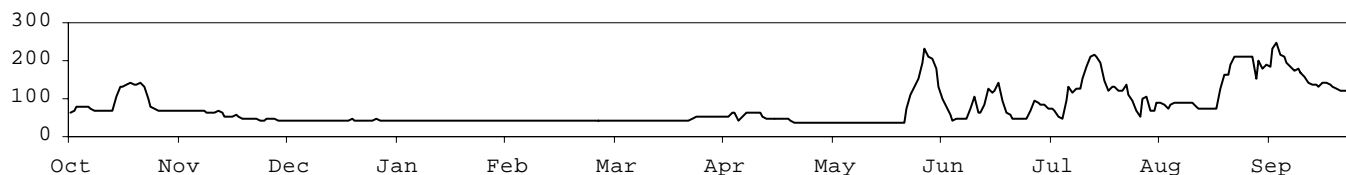
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	70	44	42	41	40	55	38	229	68	52	209
2	70	70	44	42	41	40	53	39	209	94	101	211
3	79	70	43	42	41	40	52	39	204	87	105	151
4	80	70	44	42	41	40	52	38	177	85	71	199
5	80	70	44	42	41	40	52	39	131	82	68	177
6	80	70	44	42	42	40	52	39	101	76	88	188
7	75	70	44	42	42	40	64	39	80	76	89	185
8	70	66	44	42	42	40	65	38	58	66	84	233
9	69	65	43	42	41	40	44	38	44	51	76	248
10	69	64	44	42	42	40	52	39	45	50	83	217
11	68	64	43	42	42	40	62	38	45	93	91	211
12	69	68	44	41	41	40	62	37	46	130	91	195
13	69	61	44	41	41	40	62	37	46	116	91	185
14	103	55	43	41	41	40	62	37	73	126	91	174
15	129	54	43	41	41	40	62	38	105	126	91	177
16	129	55	44	41	41	40	54	37	64	155	87	169
17	135	57	43	41	40	41	49	37	65	186	78	156
18	140	53	43	42	41	41	48	37	83	212	74	141
19	139	46	41	41	41	41	49	37	125	217	74	136
20	139	46	45	41	41	40	49	37	115	210	74	135
21	140	45	42	41	40	41	49	37	119	197	75	131
22	129	45	44	41	40	40	49	37	144	145	76	140
23	98	45	43	41	41	40	47	37	96	123	76	142
24	80	43	42	41	40	41	41	37	64	131	127	137
25	75	44	43	41	40	41	38	37	58	130	162	131
26	70	45	44	41	40	41	38	36	48	119	162	127
27	70	45	46	41	40	46	39	72	48	121	189	123
28	70	45	42	41	40	52	38	109	48	139	209	122
29	70	44	42	41	---	52	39	133	48	113	209	122
30	70	44	42	41	---	52	38	154	47	96	210	116
31	70	---	42	41	---	53	---	197	---	69	211	---
TOTAL	2797	1689	1343	1283	1145	1302	1516	1644	2765	3689	3365	4988
MEAN	90	56	43	41	41	42	51	53	92	119	109	166
AC-FT	5550	3350	2660	2540	2270	2580	3010	3260	5480	7320	6670	9890
MAX	140	70	46	42	42	53	65	197	229	217	211	248
MIN	63	43	41	41	40	40	38	36	44	50	52	116

-WTR YR 2003 TOTAL 27526 MEAN 75.4 MAX 248 MIN 36 AC-FT 54600

MAX DISCH: 292 CFS AT 11:45 ON Sep. 8, 2003 GH 2.01 FT. SHIFT 0.01 FT.
MAX GH: 2.01 FT. AT 11:45 ON Sep. 8, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06696000 SOUTH PLATTE RIVER(below Elevenmile Reservoir) NEAR LAKE GEORGE, CO

LOCATION.--Lat 38°54'19", long 105°28'22". in SW¼ sec. 20, T.13 S., R.72 W., Park County, Hydrologic Unit 10190001, on left bank 700 ft downstream from Elevenmile Canyon Reservoir and 8.2 mi southwest of town of Lake George.

DRAINAGE AREA AND PERIOD OF RECORD.--963 mi². October 1929 to current year. Monthly data only for some periods.

GAGE.--Water-stage recorder and satellite monitoring in a wooden shelter at a 15' Parshall flume with outside staff gage. Elevation of gage is 8,458 ft from topographic map. Station is owned and maintained by the Denver Water Dept.

REMARKS.--Record is taken from hourly satellite data and is complete and reliable. The record is good. Record developed by Michael R. Garner.

RATING TABLE.--STD15FTPF USED FROM 01-OCT-2002 TO 08-OCT-2003

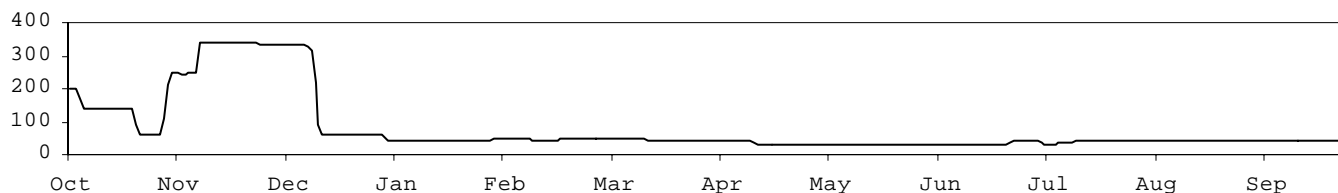
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	246	333	45	46	46	45	31	31	44	43	42
2	203	245	333	45	46	46	45	31	31	44	43	42
3	203	245	333	45	46	46	45	31	31	44	42	42
4	172	246	332	45	46	46	45	31	32	40	42	42
5	139	246	332	45	46	46	45	31	32	35	42	42
6	139	246	331	45	46	46	45	31	32	33	42	42
7	139	340	331	45	46	46	45	31	32	33	42	42
8	139	340	330	45	46	46	45	31	32	33	42	42
9	139	340	318	45	46	46	45	31	32	33	42	42
10	139	340	217	45	45	46	45	31	32	34	42	41
11	139	340	93	45	45	46	45	31	32	34	42	41
12	139	340	58	45	45	46	45	31	32	34	42	41
13	139	340	58	45	45	46	45	31	32	34	42	41
14	139	340	58	45	45	46	36	31	32	38	42	41
15	139	339	58	45	45	45	30	31	32	43	41	41
16	140	339	58	45	45	45	31	31	32	43	41	41
17	140	339	58	45	45	45	31	31	32	43	41	41
18	140	339	58	45	46	45	31	31	32	43	41	41
19	140	339	58	45	46	45	31	31	32	43	41	41
20	93	338	58	45	46	45	31	31	32	43	41	41
21	59	339	58	45	46	45	31	32	32	43	41	41
22	59	337	58	45	46	45	31	32	32	43	41	41
23	59	337	58	45	46	45	30	32	32	43	41	41
24	60	336	58	45	46	45	30	32	32	43	41	40
25	60	336	58	45	46	45	30	31	30	43	41	40
26	60	335	59	45	46	45	31	31	34	43	41	40
27	60	335	59	45	46	45	31	31	43	43	41	40
28	111	334	58	45	46	45	30	31	43	43	41	40
29	210	334	58	45	---	45	31	31	44	43	41	40
30	247	334	51	46	---	45	30	31	44	43	41	40
31	246	---	45	46	---	45	---	31	---	43	41	---
TOTAL	4194	9584	4425	1397	1280	1409	1111	965	1003	1244	1287	1232
MEAN	135	319	143	45	46	46	37	31	33	40	42	41
AC-FT	8320	19010	8780	2770	2540	2790	2200	1910	1990	2470	2550	2440
MAX	247	340	333	46	46	46	45	32	44	44	43	42
MIN	59	245	45	45	45	45	30	31	30	33	41	40

WTR YR 2003 TOTAL 29131 MEAN 79.8 MAX 340 MIN 30 AC-FT 57780

MAX DISCH: 344 CFS AT 19:30 ON Nov. 14, 2002 GH 3.05 FT. SHIFT 0 FT.
MAX GH: 3.05 FT. AT 19:30 ON Nov. 14, 2002

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06701500 SOUTH PLATTE RIVER BELOW CHEESMAN LAKE, CO

LOCATION.--Lat 39°12'33", long 105°16'02", in SE¼NW¼ sec.6, T.10 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank 1,400 ft downstream from toe of Cheesman Dam and 3.8 mi southwest of Deckers.

DRAINAGE AREA AND PERIOD OF RECORD.--1,752 mi². Oct.1, 1924-May13, 1956 at site 370 feet upstream and 0.50 ft. higher. May 14, 1956 to present at current site. Unreliable record from 1909 to 1924 unpublished.

GAGE.--Water-stage recorder with satellite telemetry in a wooden shelter at a 30 ft Parshall flume. Datum of gage is 6,609 ft. Station is owned and maintained by the Denver Water Dept. Satellite telemetry is maintained by the U.S. Army Corps of Engineers and the USGS.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart back up. Satellite data agreed with the recorder data within ±0.02 foot. The record is reliable and complete. The record is good. Record developed by Michael Garner.

RATING TABLE.--PLACHECO11 USED FROM 01-OCT-2002 TO 23-OCT-2003

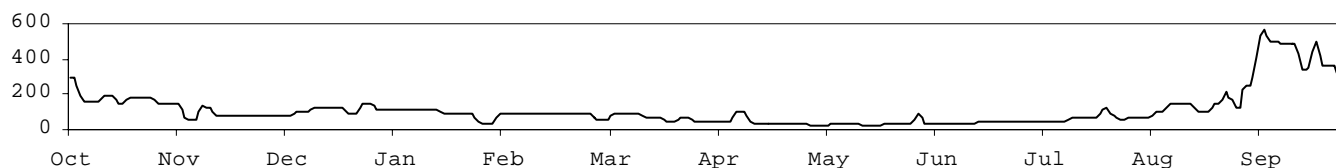
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	150	81	115	92	54	50	28	87	45	63	127
2	295	118	83	115	93	54	46	26	70	45	63	227
3	254	68	83	115	94	54	44	26	38	45	63	252
4	188	51	93	115	93	54	44	25	38	45	63	249
5	159	52	99	115	92	76	44	25	38	45	63	293
6	160	53	99	115	92	94	44	25	38	45	63	406
7	160	103	99	115	92	94	44	33	38	45	77	537
8	160	140	100	115	92	94	44	38	38	45	98	568
9	160	128	110	115	92	94	70	39	38	45	98	529
10	179	128	120	115	92	94	104	38	38	45	98	497
11	189	97	120	115	92	94	104	38	38	46	125	493
12	189	78	119	115	92	96	104	37	38	47	147	493
13	189	78	119	115	92	96	74	37	38	47	148	492
14	167	78	119	115	92	83	43	38	38	56	148	490
15	149	79	119	103	92	70	35	36	38	71	148	490
16	150	79	119	91	92	70	35	28	39	71	148	487
17	165	79	119	91	92	70	35	23	39	71	148	487
18	183	79	119	91	92	70	35	23	41	71	148	426
19	183	79	106	91	92	70	36	24	44	72	122	335
20	182	79	94	91	92	59	36	22	44	72	103	335
21	182	81	94	91	92	42	36	23	44	71	103	355
22	181	81	94	91	92	42	36	29	44	71	103	443
23	181	81	124	91	92	42	36	36	44	92	101	500
24	181	81	146	91	92	58	37	36	44	118	126	417
25	166	81	146	63	92	70	34	35	44	124	148	363
26	150	81	146	42	94	72	31	35	44	90	148	363
27	150	81	131	38	94	73	31	35	44	76	175	361
28	150	81	117	38	70	59	31	35	44	71	219	360
29	150	81	118	38	---	50	31	35	44	62	184	329
30	150	81	116	38	---	50	31	36	44	62	172	270
31	150	---	115	67	---	50	---	56	---	63	129	---
TOTAL	5549	2606	3467	2856	2562	2148	1405	1000	1298	1974	3742	11974
MEAN	179	87	112	92	92	69	47	32	43	64	121	399
AC-FT	11010	5170	6880	5660	5080	4260	2790	1980	2570	3920	7420	23750
MAX	297	150	146	115	94	96	104	56	87	124	219	568
MIN	149	51	81	38	70	42	31	22	38	45	63	127

WTR YR 2003 TOTAL 40581 MEAN 111 MAX 568 MIN 22 AC-FT 80490

MAX DISCH: 571 CFS AT 10:15 ON Sep. 7, 2003 GH 2.81 FT. SHIFT -0.02 FT.
MAX GH: 2.81 FT. AT 10:15 ON Sep. 7, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06706000 NORTH FORK SOUTH PLATTE RIVER BELOW GENEVA CREEK, AT GRANT, CO

LOCATION.--Lat 39°27'26", long 105°39'29" in NW¼ sec. 10, T.7 S., R.74 W., Park County, Hydrologic Unit 10190002, on left bank at Grant, 1,550 ft downstream from Geneva Creek, and 1.3 mi downstream from east portal of Harold D. Roberts tunnel.

DRAINAGE AREA AND PERIOD OF RECORD.--127 mi²; 1948 to present.

GAGE.--A graphic water stage recorder and satellite monitoring equipment in a wooden shelter over a concrete well at a concrete trapezoidal channel section and spillway. The gage has power and is equipped with heat lamps and tapes to prevent freezing of the stilling well and intakes. The station is owned and maintained by the Denver Water Department. The satellite equipment is owned by USCOE and maintained by the USGS.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart back up. It is complete. The shaft encoder was accurate to ± 0.02 ft. The record is reliable, except for March 20 to April 9 when some hours of some days showed ice peaks. The ice peaks were deleted from the record. Rapid changes in stage are caused by the regulation of Roberts Tunnel, ½ mile upstream. When Roberts tunnel is operating, the gage is free from ice. The record is good, except for March 20 to April 9 which is fair. Record developed by Michael Garner.

RATING TABLE.--PLAGRACO12 USED FROM 27-MAY-2003 TO 25-AUG-2003

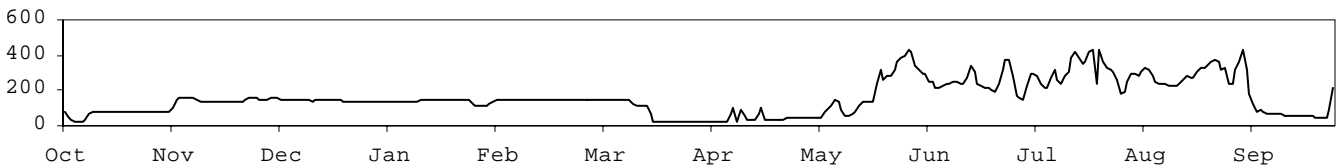
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	102	154	136	141	143	17	41	415	165	189	233
2	49	145	149	135	143	143	17	41	336	156	245	314
3	32	163	147	137	147	143	17	41	313	152	300	367
4	28	163	147	140	147	143	17	43	289	229	296	430
5	28	163	147	140	147	143	17	40	296	294	281	320
6	28	163	147	140	147	143	17	49	254	294	301	183
7	39	163	147	140	147	143	17	76	249	287	323	127
8	67	149	147	140	147	143	17	88	219	240	320	79
9	80	140	147	140	144	143	18	112	211	220	283	86
10	79	138	144	140	143	142	63	143	227	215	244	77
11	79	137	141	142	143	144	101	141	240	269	239	70
12	81	134	142	143	143	145	28	91	241	312	240	67
13	80	139	143	142	143	128	87	53	249	266	237	68
14	81	139	143	144	143	117	53	58	244	243	231	67
15	79	137	143	147	143	116	34	71	237	278	228	64
16	78	136	143	147	143	114	30	79	233	302	229	62
17	78	137	143	147	142	113	31	113	276	385	242	59
18	78	136	143	147	145	67	69	131	334	418	266	58
19	78	136	142	147	142	26	106	135	305	388	282	57
20	78	136	140	147	143	24	34	132	233	346	273	57
21	78	136	140	146	143	20	36	133	224	359	275	55
22	78	143	140	147	143	20	38	243	214	423	301	54
23	83	153	140	147	143	20	35	312	210	432	323	53
24	81	154	137	147	143	20	32	266	207	241	327	52
25	81	154	134	147	143	19	39	278	194	426	334	50
26	81	152	133	126	143	19	47	281	236	360	358	48
27	84	152	133	110	143	19	46	319	322	325	368	48
28	83	149	135	110	143	18	44	363	371	317	367	47
29	83	154	136	110	---	17	46	383	374	301	318	89
30	79	154	136	110	---	17	44	396	280	256	333	216
31	84	---	138	125	---	17	---	425	---	180	237	---
TOTAL	2190	4357	4401	4266	4027	2629	1197	5077	8033	9079	8790	3557
MEAN	71	145	142	138	144	85	40	164	268	293	284	119
AC-FT	4340	8640	8730	8460	7990	5210	2370	10070	15930	18010	17430	7060
MAX	84	163	154	147	147	145	106	425	415	432	368	430
MIN	28	102	133	110	141	17	17	40	194	152	189	47

WTR YR 2003 TOTAL 57603 MEAN 158 MAX 432 MIN 17 AC-FT 114300

MAX DISCH: 490 CFS AT 21:15 ON May. 31, 2003 GH 1.69 FT. SHIFT 0 FT.
MAX GH: 1.69 FT. AT 21:15 ON May. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06707500 SOUTH PLATTE RIVER AT SOUTH PLATTE, CO

LOCATION.--Lat 39°24'33", long 105°10'10", SE¼ sec. 25, T.7 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank at South Platte, 200 ft downstream from bridge on State Highway 75, and 400 ft downstream from North Fork.

DRAINAGE AREA AND PERIOD OF RECORD.--2,579 mi²; 1910 to present.

GAGE.-- A graphic water stage recorder and satellite monitoring equipment in a concrete shelter and CMP well. The Sutron 8004 DCP was replaced with an 8210. The primary gage is an electric tape gage mounted on the equipment shelf. The station was rebuilt with a 60" CMP well and concrete shelter in 1994. 120-volt electricity was installed in 2001. The cable way was rebuilt in 1995. The gage is on Denver Water Board property.

REMARKS.--The primary record is hourly data taken from satellite readings with chart back up. The record is complete. Open water record agrees with the chart to within ±0.02 ft. when pen corrections are applied. The record is reliable except for the following days when ice was thought to have affected the stage-discharge relationship: December 19, 2002 through March 4, 2003, which were estimated using computed inflows from Strontia Springs Reservoir. The record is good for open water conditions. Station maintained and record developed by Michael Garner.

RATING TABLE.--PLASPLCO16 USED FROM 01-OCT-2002 TO 01-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

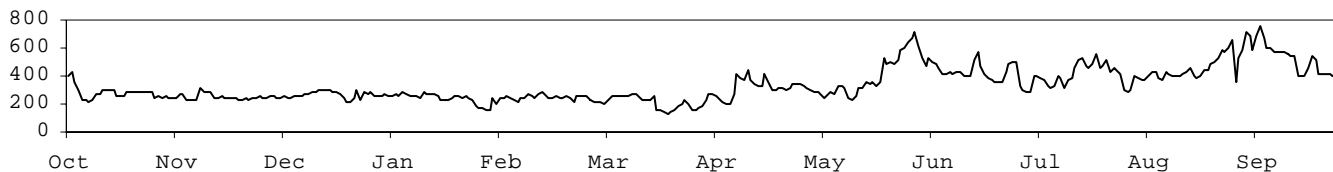
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	249	247	256	205	215	192	312	714	327	282	352
2	430	274	252	264	248	211	232	295	619	300	303	526
3	363	272	246	275	250	209	269	285	522	285	407	590
4	293	232	246	255	256	198	272	282	478	289	392	712
5	230	234	260	288	250	224	254	265	524	399	374	691
6	222	230	257	268	226	252	228	250	506	393	366	590
7	221	232	263	263	215	255	214	273	488	389	402	691
8	233	318	266	263	240	257	202	288	459	366	426	750
9	269	291	267	254	246	258	202	278	413	323	428	667
10	278	289	285	241	270	261	273	329	413	317	379	605
11	303	283	291	290	258	264	409	323	422	322	376	595
12	305	238	296	266	248	266	391	312	417	397	427	578
13	306	248	299	270	271	268	378	237	422	383	415	572
14	300	253	306	271	281	248	439	235	431	318	404	578
15	262	250	304	255	257	228	369	263	402	369	399	568
16	257	240	287	225	247	229	340	308	395	380	396	551
17	257	240	282	225	246	231	335	321	399	457	416	549
18	286	237	276	227	251	255	329	362	509	508	423	538
19	286	231	240	247	247	155	409	346	567	524	451	403
20	286	233	221	254	248	159	357	354	478	476	396	399
21	286	236	221	251	255	145	298	334	420	458	386	403
22	285	234	237	247	250	130	300	356	388	483	396	452
23	288	250	293	251	214	141	309	526	374	551	440	546
24	288	249	231	248	257	161	309	481	351	450	447	512
25	286	251	286	233	259	186	306	498	360	477	489	421
26	250	240	272	190	262	199	319	481	360	512	504	412
27	253	250	290	170	256	222	343	508	426	430	529	412
28	250	262	251	165	232	197	337	589	492	462	583	409
29	252	253	264	164	---	160	341	600	499	445	568	395
30	243	250	251	153	---	160	330	648	505	411	600	419
31	244	---	271	238	---	172	---	670	---	304	652	---
TOTAL	8714	7549	8258	7467	6945	6516	9286	11609	13753	12505	13456	15886
MEAN	281	252	266	241	248	210	310	374	458	403	434	530
AC-FT	17280	14970	16380	14810	13780	12920	18420	23030	27280	24800	26690	31510
MAX	430	318	306	290	281	268	439	670	714	551	652	750
MIN	221	230	221	153	205	130	192	235	351	285	282	352

WTR YR 2003 TOTAL 121944 MEAN 334 MAX 750 MIN 130 AC-FT 241900

MAX DISCH: 870 CFS AT 08:15 ON Aug. 31, 2003 GH 3.82 FT. SHIFT -0.05 FT.

MAX GH: 3.82 FT. AT 08:15 ON Aug. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06707501 SOUTH PLATTE RIVER BELOW STRONTIA SPRINGS RESERVOIR, CO

LOCATION.--Lat 39°26'00", long 105°07'30", SW¼SW¼ sec. 16, T.7 S., R.69 W., Douglas County, on right bank 1/4 mi downstream from Strontia Springs Dam.

DRAINAGE AREA.--N/A

GAGE.--A Stevens A-70 graphic water stage recorder, satellite monitoring data collection platform with digital shaft encoder installed in a formed concrete shelter. An adjustable reference point with a graduated tape on the float drive for the recorder is used for referencing. An adjustable reference for a drop tape is located below the well manhole. An outside staff gage is used as an additional reference. A new encoder was installed in 2003 that reads to 3 decimal places and allows for tighter calibration.

REMARKS.--Record is complete and reliable; no ice conditions were experienced this year. Only a few bad data points showed up in the max/min prints. The new encoder maintained calibration so that no corrections were necessary to the record. The record is good. Station was maintained and record developed by Jana Ash and R. E. Cooper.

RATING TABLE.--PLASTRCO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

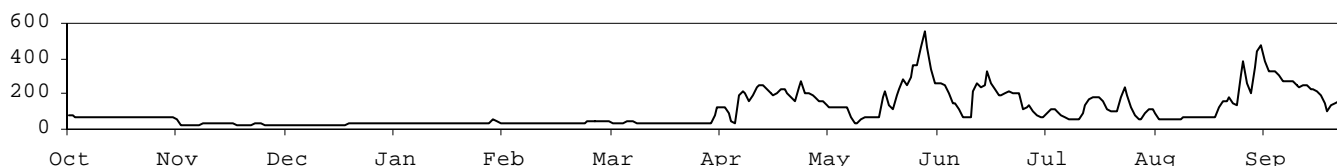
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	52	28	33	38	40	33	195	466	121	78	382
2	74	26	28	33	39	40	34	178	554	139	61	255
3	72	27	28	33	39	40	83	163	460	104	60	202
4	71	28	28	33	39	40	129	163	344	78	91	350
5	71	27	28	33	39	39	129	141	264	64	112	440
6	72	27	28	32	38	39	128	127	256	64	111	474
7	73	28	27	32	38	39	85	126	256	88	87	382
8	72	29	27	32	37	39	42	127	254	113	60	324
9	72	30	26	32	38	40	32	126	202	110	61	326
10	68	30	27	32	38	40	191	125	152	106	61	326
11	66	30	27	31	38	40	213	125	147	81	61	302
12	67	29	26	31	38	37	200	70	111	63	61	273
13	67	29	26	31	38	34	157	34	65	61	62	267
14	67	30	26	31	38	33	189	35	66	60	62	268
15	67	30	26	31	39	32	241	54	66	60	63	268
16	67	29	26	31	38	32	249	65	210	60	63	247
17	67	29	26	31	38	32	245	66	259	93	63	239
18	67	28	26	31	38	30	221	66	234	137	63	245
19	67	28	28	31	38	33	204	66	250	169	63	250
20	67	28	30	31	38	35	197	66	332	185	64	227
21	67	28	32	31	38	35	207	177	259	182	64	226
22	67	28	33	31	38	35	224	220	223	181	64	212
23	67	29	33	31	39	35	223	134	196	156	64	187
24	67	29	33	31	38	34	209	117	194	118	65	142
25	67	29	33	31	39	33	178	188	206	106	129	102
26	67	28	33	31	40	33	162	231	210	107	157	133
27	67	28	33	32	40	33	239	280	209	107	154	145
28	67	28	33	32	40	33	271	247	208	182	176	155
29	66	28	33	31	---	33	205	297	209	233	145	152
30	65	28	33	60	---	33	199	360	110	197	132	122
31	64	---	33	48	---	33	---	365	---	124	308	---
TOTAL	2119	877	904	1024	1076	1104	5119	4734	6972	3649	2865	7623
MEAN	68	29	29	33	38	36	171	153	232	118	92	254
AC-FT	4200	1740	1790	2030	2130	2190	10150	9390	13830	7240	5680	15120
MAX	74	52	33	60	40	40	271	365	554	233	308	474
MIN	64	26	26	31	37	30	32	34	65	60	60	102

WTR YR 2003 TOTAL 38066 MEAN 104 MAX 554 MIN 26 AC-FT 75500

MAX DISCH: 600 CFS AT 12:15 ON Jun. 2, 2003 GH 4.69 FT. SHIFT 0.02 FT.
MAX GH: 4.69 FT. AT 12:15 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06708000 SOUTH PLATTE RIVER AT WATERTON, CO

LOCATION.--Lat 39°29'18", long 105°05'32", in NE¼ sec. 34, T.6 S., R.69 W., Jefferson County, Hydrologic Unit 10190002, on left bank 168 ft downstream from bridge on State Highway 221, 0.4 mi south of Waterton, 4.7 mi west of Louviers, and 6 mi upstream from Plum Creek.

DRAINAGE AREA AND PERIOD OF RECORD.--2,621 mi²; 1926 to present.

GAGE.--Graphic stage recorder, and satellite monitoring DCP with a phone modem (on separate floats)-- in a 60" galvanized, corrugated steel shelter and well. The primary reference is an electric drop tape. Datum of gage 5,484.43 ft National Geodetic Vertical Datum.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart back up. The record is complete and reliable except for December 22-25; February 24, 25; and March 18 when ice could have accumulated on the control and in the well. The record is rated good except December 22-25; February 24, 25; and March 18 which were estimated and poor. Denver's attempt to maintain 15 cfs during certain periods at the Waterton gage was complicated by ice conditions and the need for better definition of the rating at this low flow. Station was maintained and record was developed by R.E.Cooper.

RATING TABLE.--PLAWATCO09 USED FROM 01-OCT-2002 TO 16-OCT-2003

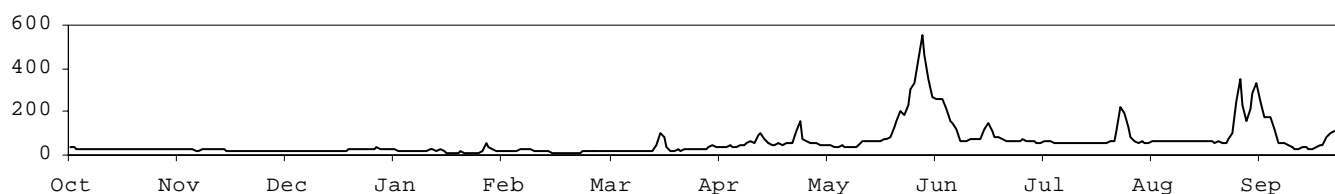
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	28	19	26	19	15	31	56	447	71	80	353
2	35	25	18	26	17	16	35	57	556	63	62	233
3	32	24	19	20	18	15	44	51	465	64	59	159
4	30	25	19	19	19	15	33	50	354	61	61	209
5	30	24	19	20	15	15	38	48	271	58	60	287
6	30	22	19	20	15	14	36	42	258	59	57	332
7	31	23	18	17	25	15	38	42	257	61	63	250
8	31	25	19	15	29	14	42	41	255	63	61	178
9	31	26	17	15	27	14	35	41	211	61	61	178
10	31	27	18	22	24	15	40	43	156	56	62	179
11	27	28	19	19	18	15	48	39	148	60	62	117
12	27	27	20	24	16	15	50	39	122	60	61	54
13	26	26	20	25	14	15	53	33	69	56	62	51
14	26	25	20	20	15	15	66	34	69	55	61	51
15	26	22	19	24	14	15	59	47	69	55	62	47
16	26	20	20	23	13	15	89	64	77	57	62	35
17	26	19	19	13	13	22	104	63	74	59	62	26
18	26	19	19	13	13	47	70	65	74	56	64	27
19	26	18	22	13	13	99	57	66	76	60	62	37
20	26	18	29	10	12	84	50	68	121	59	61	34
21	26	18	31	15	12	35	50	66	150	56	62	31
22	27	18	31	12	12	23	51	70	115	56	62	32
23	28	19	31	12	12	22	50	71	84	56	62	38
24	28	20	31	8.2	13	24	54	86	83	58	62	44
25	28	20	31	8.8	17	23	56	126	74	60	59	47
26	27	20	31	10	17	25	54	157	65	61	61	87
27	28	19	32	21	15	27	115	200	62	63	60	104
28	27	18	33	52	15	25	159	187	61	114	57	111
29	28	18	31	33	---	26	78	229	62	222	78	111
30	28	18	31	29	---	24	64	304	67	192	102	93
31	26	---	28	19	---	24	---	329	---	127	245	---
TOTAL	877	659	733	604	462	768	1749	2814	4952	2259	2155	3535
MEAN	28	22	24	19.5	17	25	58	91	165	73	70	118
AC-FT	1740	1310	1450	1200	916	1520	3470	5580	9820	4480	4270	7010
MAX	35	28	33	52	29	99	159	329	556	222	245	353
MIN	26	18	17	8.2	12	14	31	33	61	55	57	26

WTR YR 2003 TOTAL 21567 MEAN 59.1 MAX 556 MIN 8.2 AC-FT 42780

MAX DISCH: 582 CFS AT 05:45 ON Jun. 2, 2003 GH 1.86 FT. SHIFT 0.01 FT.
MAX GH: 1.86 FT. AT 05:45 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06709610 SOUTH PLATTE RIVER BELOW CHATFIELD RESERVOIR, CO

LOCATION.--Lat 39°33'26", long 105°03'27", SE¼, sec. 1, T.6 S., R.69 W., Jefferson County, Hydrologic Unit 10190002.

DRAINAGE AREA.--3,018 mi².

GAGE.--A Stevens A-70 graphic water stage recorder and satellite monitoring shaft encoder installed in a formed concrete well and shelter. The DCP is located about 2000 ft away on the outlet structure in the lake, and is also used for lake elevation. An electric drop tape is used for referencing. There is no outside reference. The gage and DCP are owned by the USACOE and the DCP is maintained by the USGS.

REMARKS.--The primary record is hourly satellite data with chart back up. Daily max and min values agreed with the corrected chart values to within +-0.02 foot. Two .01 corrections to the encoder data were applied for short periods. The control was cleaned of moss on most visits with no corrections observed. The record is complete and reliable. The record is fair due to inconsistencies in the measurements as compared with previous years. Station maintained and record developed by Jana Ash and Robert E Cooper.

RATING TABLE.--PLACHACO03 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

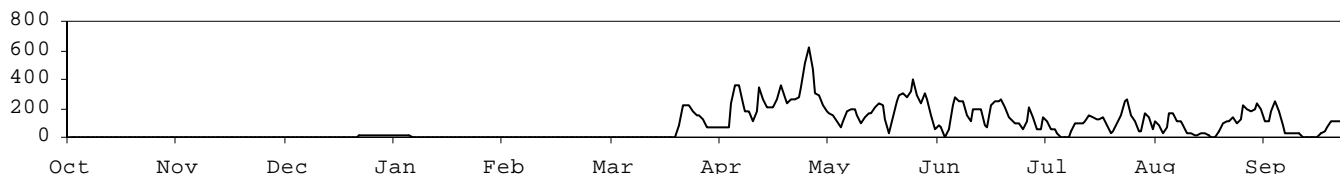
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	4.7	.09	18	.06	2.9	71	465	230	113	116	217
2	.09	4.7	.09	18	.06	2.9	71	307	307	209	43	190
3	.08	4.6	.09	18	.07	2.9	72	285	263	142	47	178
4	.08	4.7	.09	18	.06	2.9	72	227	157	49	167	196
5	.08	4.6	.09	18	.06	2.9	72	183	59	61	140	231
6	.08	4.6	.08	9.5	.07	2.9	72	169	78	134	60	196
7	.09	2.7	.08	6.2	.07	2.9	72	152	67	115	113	107
8	1.5	.17	.08	4.1	.06	2.9	230	113	.93	49	76	107
9	3.7	.15	.08	.07	.06	2.9	363	72	57	49	33	186
10	4.2	.12	.08	1.9	.06	2.9	364	108	219	33	67	252
11	4.3	.12	.08	4	.06	2.9	230	179	272	.55	160	181
12	4.4	.14	.08	4	3.1	2.9	179	200	250	.52	166	81
13	4.4	.11	.07	4	5.8	2.9	179	200	251	.56	115	29
14	4.4	.11	.07	4	3.9	2.9	108	150	156	47	115	29
15	4.5	.11	.07	2.1	3.1	2.1	179	100	111	97	81	29
16	4.4	.1	.08	.07	3.1	1.8	350	138	195	97	29	29
17	3.7	.1	.08	.07	3.1	1.6	267	168	197	97	29	21
18	3.5	.11	.08	.07	2.9	1.5	207	166	197	111	18	6.5
19	3.4	.09	.08	.07	2.9	1.4	207	202	84	145	15	1.1
20	3.3	.09	1.6	.07	2.9	1.4	207	237	63	133	28	.97
21	3.3	.09	5.6	.07	2.9	1.5	268	217	227	121	21	.88
22	3.3	.09	5.6	.07	2.9	1.5	353	123	248	119	9	.87
23	3.3	.09	11	.07	2.9	1.5	279	28	246	141	2.2	21
24	3.3	.09	18	.07	2.9	.86	233	138	265	84	2	42
25	3.4	.1	18	.07	2.9	214	267	247	213	21	40	69
26	3.8	.09	19	.07	2.9	214	267	289	141	35	93	105
27	4.5	.11	18	.07	2.9	214	269	303	112	100	105	105
28	4.5	.09	18	.06	2.9	186	351	276	102	157	117	105
29	4.7	.09	18	.06	---	157	513	316	100	247	136	105
30	4.7	.09	18	.06	---	157	624	398	59	264	90	67
31	4.7	---	18	.06	---	118	---	290	---	157	120	---
TOTAL	93.78	33.05	170.34	130.95	54.69	1400.9	6996	6446	4926.93	3128.63	2353.2	2888.32
MEAN	3.03	1.1	5.49	4.22	1.95	45.2	233	208	164	101	75.9	96.3
AC-FT	186	66	338	260	108	2780	13880	12790	9770	6210	4670	5730
MAX	4.7	4.7	19	18	5.8	214	624	465	307	264	167	252
MIN	.08	.09	.07	.06	.06	1.4	71	28	.93	.52	2	.87

WTR YR 2003 TOTAL 28622.79 MEAN 78.4 MAX 624 MIN .06 AC-FT 56770

MAX DISCH: 627 CFS AT 15:00 ON Apr. 29, 2003 GH 3.36 FT. SHIFT 0.03 FT.

MAX GH: 3.36 FT. AT 15:00 ON Apr. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06710500 BEAR CREEK AT MORRISON, CO

LOCATION.--Lat 39°39'11", long 105°11'42, in SE¼SW¼ sec. 35, T.4 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank at Morrison, 180 ft upstream from bridge on State Highway 8 and 0.2 mi upstream from Mount Vernon Creek.

DRAINAGE AREA AND PERIOD OF RECORD.--164 mi². Sporadic, incomplete data Sep. 1881 to Feb. 1902. Good data October 1919 to current year. Monthly data for some periods only. Some early years published as near Morrison, at Starbuck, at Idledale. Water quality data from Oct. 1976 to Sep. 1981.

GAGE.--Water-stage recorder with satellite telemetry, shaft encoder and Telemark in a 48-inch metal shelter and well. A new concrete wier was installed and put into operation Sep. 10, 2002.

REMARKS.--Hourly data is the primary record, taken from satellite monitoring with chart back-up. The record is complete, except for February 7-10 when both satellite and chart record were missing. The gage pool behind the new weir accumulates 100% ice during the winter, but the flow this year was 100% within the notch portion of the weir. The recorded GH's computed discharges that were generally close to what was estimated to be present at the gage. Using temperature data, ice can be presumed to have been present from about December 5 through March 3. The record is rated as good, except for December 5 to March 3, which is considered to be estimated. Record developed by Robert E. Cooper. Station maintained by Division One personnel.

RATING TABLE.--BCRMORCO23 USED FROM 01-OCT-2002 TO 16-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

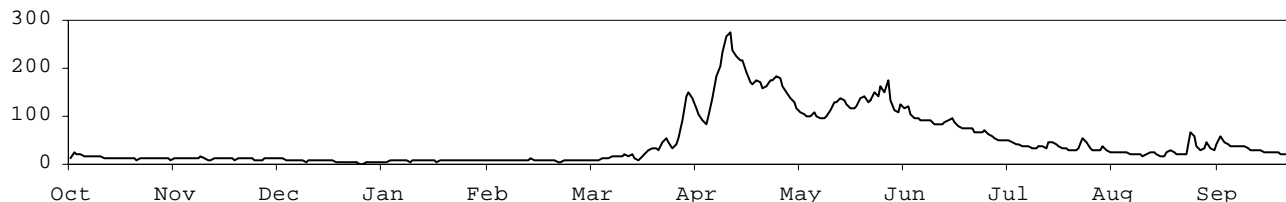
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	11	4.6	9.4	7	92	162	177	62	30	39
2	25	14	12	4.3	9	7.8	142	149	133	58	30	31
3	22	14	11	5.6	8.7	8.2	152	137	114	54	28	35
4	19	13	10	6.7	7	7.9	137	131	110	52	38	44
5	18	14	7	6.9	8.5	7.5	116	116	124	50	28	35
6	16	12	7.2	7.7	9	8.9	105	108	115	50	24	31
7	15	12	7.9	7.2	7	10	92	103	121	49	24	40
8	15	13	8.1	7.6	8	13	84	99	103	47	25	57
9	15	15	6.3	7.2	9	13	100	98	94	42	25	46
10	15	12	5.7	6.2	10	14	139	107	97	41	26	43
11	14	10	7.6	8	8.2	15	183	100	93	39	23	38
12	13	9.8	7.4	8	7	17	206	95	91	39	22	36
13	13	12	6.9	7.5	8.8	17	234	96	91	38	20	36
14	12	13	8.8	7.8	9.7	18	265	100	93	35	19	38
15	12	12	8.9	7.4	11	19	276	113	84	35	19	36
16	11	11	8	7.3	9.7	17	236	131	82	36	18	33
17	11	13	8.2	7.8	9.2	19	225	130	82	38	20	29
18	12	12	8.6	5.7	8.7	14	215	139	86	35	26	31
19	11	10	6	7.9	9	8.7	215	133	92	44	27	30
20	11	11	4	7	7.8	15	192	125	97	44	21	30
21	10	12	4	7.9	9.1	20	169	116	89	43	17	27
22	11	11	4.7	6.5	8.7	30	167	117	79	38	18	26
23	11	12	3	7.9	6	32	173	122	77	34	24	26
24	11	11	2.9	8.3	5	34	169	137	76	33	28	24
25	12	9.1	4.8	8	7	31	158	142	77	31	23	23
26	11	7.7	2	7.7	7.5	45	161	131	73	30	22	22
27	11	8.7	2	9.2	7.5	56	175	134	68	30	20	22
28	12	11	3	8.7	6.5	44	177	150	65	35	19	22
29	13	12	2.8	8.8	---	35	185	142	65	55	21	22
30	11	12	2.9	9	---	40	180	161	69	44	66	22
31	9.5	---	3.7	8.8	---	55	---	148	---	35	58	---
TOTAL	413.5	351.3	196.4	229.2	232	679	5120	3872	2817	1296	809	974
MEAN	13.3	11.7	6.3	7.4	8.3	21.9	171	125	94	42	26	33
AC-FT	820	697	390	455	460	1350	10160	7680	5590	2570	1600	1930
MAX	25	15	12	9.2	11	56	276	162	177	62	66	57
MIN	9.5	7.7	2	4.3	5	7	84	95	65	30	17	22

WTR YR 2003 TOTAL 16989.4 MEAN 46.5 MAX 276 MIN 2 AC-FT 33700

MAX DISCH: 312 CFS AT 01:15 ON Apr. 15, 2003 GH 7.24 FT. SHIFT 0 FT.

MAX GH: 7.24 FT. AT 01:15 ON Apr. 15, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06711500 BEAR CREEK AT MOUTH, AT SHERIDAN, CO

LOCATION.--Lat 39°39'08", long 105°01'57", in NW¼NW¼ sec. 5, T,5 S., R.68 W., Arapahoe County, Hydrologic Unit 10190002 on left bank just downstream from bridge on South Lowell Blvd., at Highway Department maintenance building at northwest city limits of Sheridan, 1.3 mi upstream from mouth, and 2.1 mi west of city hall in Englewood.

DRAINAGE AREA AND PERIOD OF RECORD.--260 mi². April to Nov. 1914, March 1927 to current year. Monthly data only prior to Oct. 1933.

GAGE.--Water-stage recorder with satellite telemetry, shaft encoder and Telemark in a 42-inch metal shelter and well with supplemental outside wire weight gage.

REMARKS.--The primary record is hourly data from satellite with chart back-up. The data is complete and reliable. The stage discharge relationship was affected by ice for certain hours of the following days: December 24-26; January 6, 11, 12; February 10. The mean GH for these days was computed by using the chart and chopping off the ice peaks. These days are considered to be "fair" discharges since the majority of each day had good record. The record is rated as good, except for estimated daily discharges, which are poor. The following days are considered as estimates due to possible ice-effect: Dec. 24-26; Jan. 6,11,12; Feb. 7-8, 10, 23-28; Mar. 1-3, 2003. Station maintained and record developed by Robert E. Cooper.

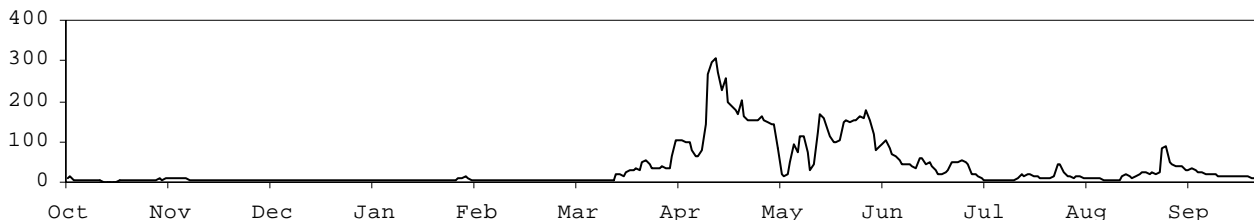
RATING TABLE.--BCRSHECO32 USED FROM 01-OCT-2002 TO 21-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	8.4	4.6	3.6	4.4	3.7	35	153	178	49	15	51
2	13	8.7	4.6	3.5	4.1	4.7	33	146	155	44	13	44
3	3.8	8.8	4.7	3.5	6	3.8	64	144	118	21	12	41
4	3	8.5	4.3	3.5	4	3.5	104	142	81	19	13	40
5	3.6	8.2	4.1	3.7	3.9	3.2	102	84	91	13	14	40
6	4.3	8.1	4	3.6	3.8	3.2	104	18	96	8.9	11	30
7	4.1	5	3.9	3.5	3.7	3.3	99	16	104	6.8	8.5	28
8	4.3	4.6	3.9	3.6	3.5	3.3	97	22	83	5.8	8.7	34
9	3.5	4.5	3.9	3.6	3.5	3.2	80	50	69	4.3	10	32
10	3.4	4.8	3.6	3.6	3.5	3.1	63	94	64	3.5	9.8	27
11	2.5	4.9	3.6	3.4	3.5	3.2	64	72	52	4.3	9	23
12	1.9	5	3.7	3.2	3.5	3.3	78	115	43	4.9	7.4	21
13	2.1	5.3	3.8	3.3	3.5	3.5	142	116	42	5	7.4	20
14	2.1	5.4	3.8	3.3	4.2	5.3	269	76	43	3.8	6.7	20
15	2.4	5.4	3.8	3.3	6.2	6	296	32	40	3.3	6.8	18
16	2.3	5.3	3.8	3.4	4	6.3	308	45	37	6.7	7.2	16
17	2.9	5.1	3.8	3.4	3.9	21	270	125	59	9.9	7.3	13
18	3	5.2	3.8	3.4	3.6	19	227	168	59	19	15	13
19	2.5	5.2	3.7	3.4	3.9	17	257	160	46	15	20	15
20	2.8	4.8	3.9	3.3	3.5	24	198	126	49	19	15	15
21	2.7	4.8	3.8	3.5	3.5	31	190	112	41	19	11	15
22	2.9	4.8	3.7	3.6	3.6	30	176	101	31	15	15	14
23	2.7	5.1	3.8	3.6	3.7	36	166	99	22	13	20	14
24	2.8	5.4	3.8	3.6	3.6	30	201	106	22	9.6	27	13
25	3.1	5.3	3.8	3.5	3.3	48	164	150	23	10	26	13
26	4.9	4.9	3.8	3.5	3.9	52	155	155	28	11	22	11
27	4.8	4.9	3.8	3.6	3.9	44	151	150	48	11	23	10
28	5.1	4.6	3.8	11	4.1	36	151	155	49	14	21	10
29	11	4.6	3.8	9.8	---	33	154	151	49	45	24	11
30	6.9	4.6	3.7	13	---	36	161	161	52	43	84	12
31	8.1	---	3.6	12	---	39	---	158	---	24	89	---
TOTAL	130.2	170.2	120.7	139.8	109.8	558.6	4559	3402	1874	480.8	578.8	664
MEAN	4.2	5.7	3.9	4.5	3.9	18	152	110	63	15.5	18.7	22
AC-FT	258	338	239	277	218	1110	9040	6750	3720	954	1150	1320
MAX	13	8.8	4.7	13	6.2	52	308	168	178	49	89	51
MIN	1.9	4.5	3.6	3.2	3.3	3.1	33	16	22	3.3	6.7	10

WTR YR 2003 TOTAL 12787.9 MEAN 35 MAX 308 MIN 1.9 AC-FT 25360
 MAX DISCH: 334 CFS AT 15:00 ON Apr. 19, 2003 GH 3.98 FT. SHIFT -0.01 FT.
 MAX GH: 3.98 FT. AT 15:00 ON Apr. 19, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06714000 SOUTH PLATTE RIVER AT DENVER, CO

LOCATION.--Lat 39°45'35", long 105°00'10", in NW¼SE¼ sec. 28, T.3 S., R.68 W., Denver County, Hydrologic Unit 10190003, on right bank 90 ft Upstream from Nineteenth Street Bridge in Denver and 0.4 mi downstream from Cherry Creek.

DRAINAGE AREA AND PERIOD OF RECORD.--3,861 mi². May 1889 to Oct. 1890 sporadic record. July 1895 to current year continuous. Monthly data only for some periods.

GAGE.--Water-stage recorder with satellite telemetry in a 72"x72" precast concrete shelter on a 48" corrugated steel well. Station includes electric drop tape, telemark and outside wire weight gage.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart backup. Daily maximum & minimum stages for the satellite record checked to within ±0.02 with the chart. The record is complete and reliable. The record is considered good, except for flows above 530 cfs (including the recorded peak flow), which are fair due to lack of confirming measurements above 530 cfs. Station maintained and record developed by Jana Ash and Lee Cunning.

RATING TABLE.--PLADENCO33 USED FROM 01-OCT-2002 TO 08-OCT-2003

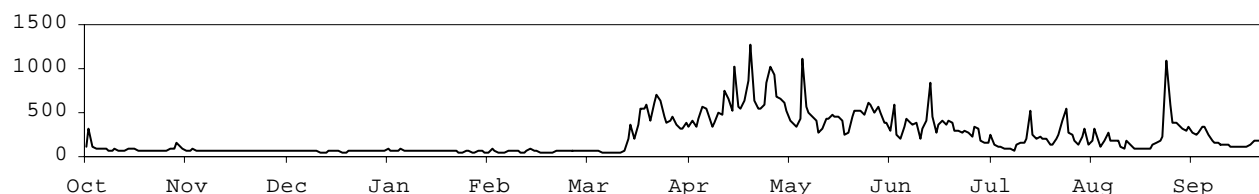
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	77	61	77	52	69	354	932	495	216	247	381
2	319	77	61	83	53	72	323	685	564	343	179	379
3	113	82	63	75	101	67	319	669	495	319	134	359
4	96	75	64	72	74	62	389	617	384	177	216	314
5	84	73	63	75	55	61	345	517	394	160	310	297
6	82	76	62	86	55	66	415	420	306	168	133	341
7	84	70	62	68	55	57	352	387	582	256	174	271
8	78	66	65	62	60	58	429	334	249	135	316	239
9	79	59	67	60	60	55	564	422	212	122	183	262
10	84	63	65	59	61	56	544	1110	346	124	116	351
11	76	65	60	57	60	55	479	565	423	99	179	338
12	72	61	56	60	54	53	352	496	392	83	264	239
13	76	59	55	62	56	53	391	464	364	81	185	177
14	80	67	55	62	61	54	496	405	377	74	180	164
15	82	65	58	60	90	54	476	283	201	133	178	160
16	80	66	60	59	67	57	751	316	307	160	114	146
17	78	63	59	57	62	208	655	429	413	164	98	139
18	77	61	58	57	52	369	521	436	831	197	192	134
19	73	59	55	58	53	214	1020	488	461	523	139	123
20	78	60	53	59	53	373	566	463	272	250	96	123
21	78	58	57	59	55	543	546	461	363	199	91	120
22	72	58	58	59	55	555	635	415	409	216	91	124
23	75	57	60	58	62	597	868	249	360	202	87	103
24	72	67	65	53	59	412	1270	283	399	213	87	125
25	74	77	66	54	58	621	627	457	385	127	90	139
26	76	69	66	59	72	708	553	513	302	134	140	175
27	90	63	71	59	77	631	535	522	285	211	168	182
28	82	58	71	51	73	462	598	517	279	257	173	185
29	160	57	72	55	---	390	831	488	291	405	218	188
30	108	60	74	57	---	406	1020	609	279	543	1080	189
31	86	---	73	60	---	444	---	584	---	277	593	---
TOTAL	2883	1968	1935	1932	1745	7882	17224	15536	11420	6568	6451	6467
MEAN	93	66	62	62	62	254	574	501	381	212	208	216
AC-FT	5720	3900	3840	3830	3460	15630	34160	30820	22650	13030	12800	12830
MAX	319	82	74	86	101	708	1270	1110	831	543	1080	381
MIN	72	57	53	51	52	53	319	249	201	74	87	103

WTR YR 2003 TOTAL 82011 MEAN 225 MAX 1270 MIN 51 AC-FT 162700

MAX DISCH: 2590 CFS AT 17:00 ON Aug. 30, 2003 GH 6.59 FT. SHIFT 0.02 FT.
MAX GH: 6.59 FT. AT 17:00 ON Aug. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06720000 CLEAR CREEK AT DERBY, CO

LOCATION.--Lat 39°49'42", long 104°57'30", in SW¼SW¼ sec. 36, T.2 S., R.68 W., Adams County, Hydrologic Unit 10190004, on right bank 875 ft downstream from York Street bridge, 0.5 mi upstream from mouth, and 2.5 mi west of Derby.

DRAINAGE AREA AND PERIOD OF RECORD.--575 mi²; 1927 to present.

GAGE.--Graphic water-stage recorder with satellite monitoring DCP with digital shaft encoder and Telemark in a 60 inch corrugated metal shelter and well. Station at this datum since June 26, 1992. Primary reference is by electric drop tape.

REMARKS.--The primary record is hourly satellite data and mean daily gage heights from the chart. Daily maximum and minimum stages for the satellite record checked to within ± 0.02 with the chart. Where DCP data was missing, data was entered hourly from the chart. The clock stopped a few times during the season, but the satellite data was complete so no data was lost during these times. The record is good. Station maintained and record developed by M.L. Cunning.

RATING TABLE.--CLEDERCO34 USED FROM 01-OCT-2002 TO 08-OCT-2003

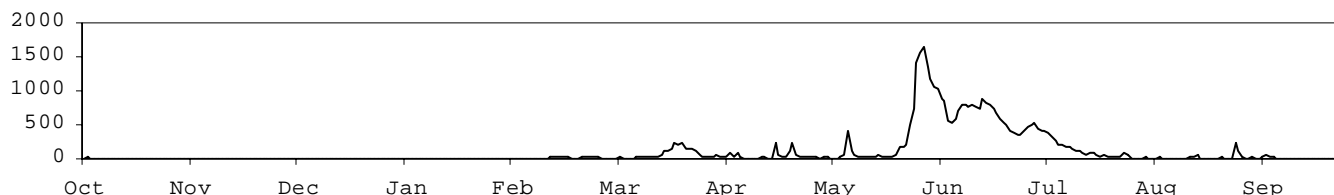
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	8.7	.94	.92	.9	2.3	31	16	1650	479	8.1	41
2	44	7.3	1	.9	1.3	2.1	72	9.1	1360	514	7.7	13
3	5.5	12	.98	.92	12	1.6	27	18	1180	524	8.6	13
4	4	9.3	.96	.93	12	2.6	28	17	1050	445	28	20
5	4.1	2.6	.96	.96	2	16	22	14	1040	419	11	13
6	3.6	2.3	.93	1.2	2.3	12	84	10	886	405	7	13
7	3.1	1	.94	1.1	1.7	13	43	8.2	852	381	7.3	37
8	2.4	.96	.93	1.1	1.5	11	76	20	565	333	29	48
9	2.6	.91	.97	1.1	1.5	14	27	73	521	256	13	38
10	2.8	.93	.92	1.1	1.4	17	6.4	419	599	200	4.8	16
11	2.3	.88	.93	1.1	1.3	20	6.4	104	699	193	10	6.6
12	2.8	.86	.93	.96	8.4	21	7.1	49	797	162	13	9.8
13	5.2	.88	.93	.98	19	21	9.4	37	802	163	4.5	9
14	3.3	1.2	.93	1.1	18	20	14	27	776	151	3.8	11
15	3.2	1	.93	1.1	27	18	29	31	791	130	4.9	9.3
16	3.6	.87	.93	1	18	16	28	43	760	103	5.1	4.5
17	3.4	.78	.93	1.1	18	58	4.6	40	740	75	16	4.4
18	3.3	.78	.93	1.1	18	127	11	39	887	66	26	4.6
19	2.9	.65	.93	1.1	12	116	250	48	822	87	62	4.9
20	2.9	1.1	.9	1.1	2.6	160	62	24	781	90	8.6	4.9
21	2.9	2.7	.93	1.1	9.1	222	27	37	741	63	8	5.6
22	2.8	2.8	1	1.1	19	217	26	34	669	43	8.4	4.9
23	3.5	1.8	.83	1	19	232	108	33	594	56	8.5	6.3
24	4	1.2	.82	1.1	18	142	232	49	543	39	8.7	6.3
25	4.1	2.6	.94	1.1	19	133	71	179	505	20	9.7	4.5
26	4	1.2	.84	1.1	23	133	38	167	423	32	16	3.2
27	3.8	1.1	.77	1.1	16	106	29	208	389	38	12	3
28	3.3	1.1	.82	1.1	3.1	61	18	495	365	23	11	4.4
29	13	1	.88	1.2	---	36	20	723	366	96	7	6
30	12	.93	.78	1.5	---	30	20	1400	424	56	239	6.5
31	7.5	---	.75	1.1	---	22	---	1570	---	8.3	128	---
TOTAL	170.1	71.43	28.16	33.37	305.1	2002.6	1426.9	5941.3	22577	5650.3	734.7	371.7
MEAN	5.5	2.38	.91	1.08	10.9	64.6	47.6	192	753	182	23.7	12.4
AC-FT	337	142	56	66	605	3970	2830	11780	44780	11210	1460	737
MAX	44	12	1	1.5	27	232	250	1570	1650	524	239	48
MIN	2.3	.65	.75	.9	.9	1.6	4.6	8.2	365	8.3	3.8	3

WTR YR 2003 TOTAL 39312.66 MEAN 108 MAX 1650 MIN .65 AC-FT 77980

MAX DISCH: 1910 CFS AT 07:30 ON Jun. 1, 2003 GH 3.7 FT. SHIFT -0.07 FT.
MAX GH: 3.7 FT. AT 07:30 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06720500 SOUTH PLATTE RIVER AT HENDERSON, CO

LOCATION --Lat 39°55'19", long 104°52'00", in SE¼NE¼ sec. 34, T.1 S., R.67 W., Adams County, Hydrologic Unit 10190003, on right bank 500 ft upstream from bridge on State Highway 22 and 0.2 mi northwest of Henderson.

PERIOD OF RECORD AND DRAINAGE AREA--4,768 mi². May 1926 to current year. Monthly data only prior to 1933. Periodic water quality data available starting in 1955.

GAGE--Water-stage recorder with satellite telemetry, shaft encoder and Telemark in a 42-inch metal pipe shelter with electric drop tape and outside wire weight as additional reference. An Accubar was installed April 25, 1997 and run in parallel with the shaft encoder. The Accubar is used as primary record during periods of low flows when the well becomes isolated.

REMARKS--Primary record is hourly readings, taken from satellite monitoring of the stilling well with chart back up on the well. The entire year record is Shaft Encoder record, and daily maximum/minimum from the primary printout were checked to within +/- .02 against well chart. The gage height record is complete and reliable except for July 30 - August 5, 2003 when all three of the inlets became plugged; this period of record is considered poor. October 1, 2002 - September 30, 2003: Stilling well data. Record is rated as good, except for flows above 2,990 cfs (including the recorded peak flow), which are fair due to lack of confirming measurements made this year above 2,990 cfs. Flow recorded July 30, 2003 thru August 5, 2003 is considered poor due to the inlets being buried and plugged. Station maintained and record developed by Jana Ash and Lee Cunning.

RATING TABLE--PLAHENCO32 USED FROM 01-OCT-2002 TO 08-OCT-2003

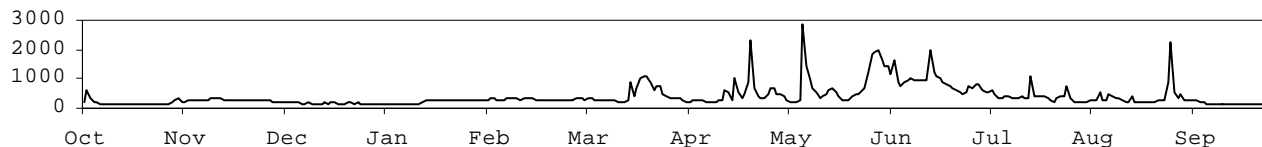
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	216	179	160	290	319	335	675	1930	703	221	523
2	644	239	186	163	284	320	344	472	2010	798	225	348
3	307	286	176	165	358	331	277	457	1660	836	186	494
4	237	287	177	160	374	306	229	389	1410	629	187	301
5	177	266	175	163	301	320	221	305	1410	539	227	265
6	164	266	177	168	301	323	268	223	1170	530	247	249
7	164	272	168	167	300	303	261	200	1660	611	246	255
8	157	275	169	160	309	299	262	216	902	509	261	303
9	154	331	176	164	311	286	256	250	784	368	552	209
10	151	326	170	161	313	286	232	2840	864	369	252	188
11	150	342	166	165	309	277	217	1430	956	426	285	159
12	149	337	163	162	306	285	206	925	993	387	509	155
13	154	288	168	184	316	263	194	654	958	375	396	141
14	158	247	174	273	318	219	257	513	935	368	350	155
15	155	256	170	243	319	214	283	371	927	366	334	162
16	152	256	176	240	312	220	616	437	927	376	253	143
17	157	249	171	255	274	272	519	448	949	355	203	126
18	154	255	170	255	271	880	268	596	1950	341	231	136
19	149	252	166	254	263	416	999	698	1200	1080	432	142
20	151	242	167	254	249	651	544	520	1060	434	228	134
21	156	252	173	250	247	1030	357	442	995	391	199	128
22	154	241	173	242	258	1100	455	300	889	382	194	141
23	157	239	170	240	263	1100	862	255	824	381	189	133
24	158	249	186	252	274	876	2350	254	738	369	181	132
25	159	271	153	284	266	636	690	395	679	296	194	131
26	155	261	151	292	270	734	430	479	607	236	203	120
27	169	256	164	292	290	750	364	452	539	374	240	113
28	179	238	166	289	272	474	326	597	476	394	252	112
29	277	174	164	287	---	418	502	685	543	426	255	120
30	321	181	169	289	---	363	696	1220	720	724	880	109
31	222	---	169	294	---	351	---	1840	---	341	2240	---
TOTAL	5994	7850	5282	6927	8218	14622	13820	19538	31665	14714	10852	5827
MEAN	193	262	170	223	294	472	461	630	1056	475	350	194
AC-FT	11890	15570	10480	13740	16300	29000	27410	38750	62810	29190	21520	11560
MAX	644	342	186	294	374	1100	2350	2840	2010	1080	2240	523
MIN	149	174	151	160	247	214	194	200	476	236	181	109

WTR YR 2003 TOTAL 145309 MEAN 398 MAX 2840 MIN 109 AC-FT 288200

MAX DISCH: 5130 CFS AT 18:45 ON May. 10, 2003 GH 7.57 FT. SHIFT 0 FT.
MAX GH: 7.57 FT. AT 18:45 ON May. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

MIDDLE ST. VRAIN CREEK NR. PEACEFUL VALLEY, CO

LOCATION.--Lat 40 07' 55", long 105 31' 00", NE1/4 NW1/4 Sec. 24, T.2 N., R.73 W.

PERIOD OF RECORD AND DRAINAGE AREA.--Gage established on May 14, 1998 by State of Colorado, Division of Water Resources personnel. This gage will be a partial year record station.

GAGE.--Graphic water-stage recorder and satellite monitoring DCP with shaft encoder in 48" diameter metal pipe shelter and well. DCP is the primary record with chart as a backup.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart back up. The record is complete and reliable except for May 26-June 1 when the GH recorded false peaks as rocks rolled in front of the inlets. These days were handled as follows: May 26: "a" day; many hours of false peaks, graphically estimated by connecting lower values May 27, 28, 29, 31: 4 or less hours bad and estimated; corrected record used. May 30, June 1; "a" days; many hours of false peaks, graphically estimated by connecting lower values. The record is good, except as follows: Flows above 130 cfs are fair due to lack of rating measurements. Flows above 200 cfs are poor due to lack of rating measurements. The peak is not determined since the rating would compute it at 524 cfs which is too far above the limits of the rating to have any accuracy. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--MIDSTECO03 USED FROM 01-OCT-2002 TO 07-OCT-2003

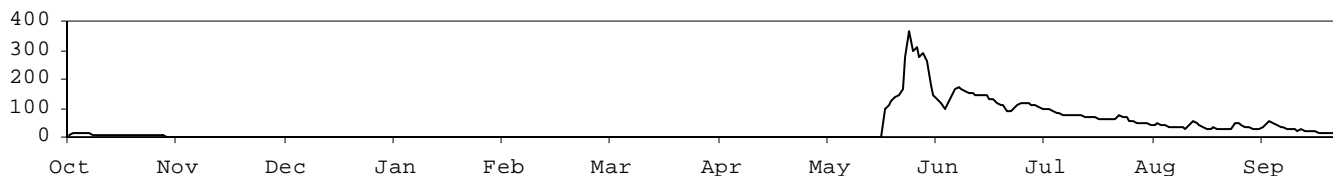
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	-	-	-	-	-	-	-	273	118	52	39
2	12	-	-	-	-	-	-	-	287	117	49	32
3	12	-	-	-	-	-	-	-	263	112	50	32
4	12	-	-	-	-	-	-	-	178	108	50	29
5	11	-	-	-	-	-	-	-	145	103	48	28
6	11	-	-	-	-	-	-	-	131	98	44	29
7	11	-	-	-	-	-	-	-	115	94	43	33
8	10	-	-	-	-	-	-	-	99	95	45	50
9	10	-	-	-	-	-	-	-	108	92	41	54
10	9.9	-	-	-	-	-	-	-	136	83	38	46
11	9.5	-	-	-	-	-	-	-	167	80	37	42
12	8.7	-	-	-	-	-	-	-	171	73	34	36
13	8.3	-	-	-	-	-	-	-	164	73	33	33
14	7.8	-	-	-	-	-	-	-	161	73	35	30
15	7.8	-	-	-	-	-	-	-	155	73	32	27
16	7.5	-	-	-	-	-	-	-	152	73	29	25
17	7.3	-	-	-	-	-	-	-	145	75	39	24
18	7.2	-	-	-	-	-	-	-	142	71	55	25
19	6.9	-	-	-	-	-	-	-	142	72	51	24
20	6.7	-	-	-	-	-	-	-	142	70	41	22
21	6.8	-	-	-	-	-	-	-	133	67	36	20
22	6.5	-	-	-	-	-	-	100	128	65	31	19
23	6.9	-	-	-	-	-	-	108	120	62	30	17
24	7.2	-	-	-	-	-	-	123	110	59	32	17
25	6.7	-	-	-	-	-	-	139	110	64	31	16
26	6.7	-	-	-	-	-	-	145	89	62	29	15
27	6.9	-	-	-	-	-	-	167	91	64	27	15
28	7	-	-	-	-	-	-	273	103	75	27	15
29	-	-	-	-	---	-	-	365	113	70	29	15
30	-	-	-	-	---	-	-	297	115	66	51	15
31	-	---	-	-	---	-	---	308	---	56	51	---
TOTAL	241.3	-	-	-	-	-	-	2025	4388	2463	1220	824
MEAN	7.78	-	-	-	-	-	-	65.3	146	80	39	28
AC-FT	479	-	-	-	-	-	-	4020	8700	4890	2420	1630
MAX	12	-	-	-	-	-	-	365	287	118	55	54
MIN	-	-	-	-	-	-	-	-	89	56	27	15

WTR YR 2003 TOTAL 11161.3 MEAN 30.6 MAX 365 MIN - AC-FT 22140

MAX DISCH: Not Determined
MAX GH: 3.5 FT. AT 18:00 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

SOUTH ST. VRAIN CREEK NEAR WARD, CO

LOCATION.--Lat 40°05'27", long 105°30'50"

DRAINAGE AREA AND PERIOD OF RECORD.--14.4 mi²; 1925-27,28-31, 54-73, 1992 to present

GAGE.--Graphic water-stage recorder and satellite monitoring DCP (8200) with shaft encoder in 42-inch diameter corrugated metal pipe shelter and well. DCP is primary record with chart as backup.

REMARKS.--The primary record is hourly satellite data with chart backup. Record is complete and reliable except for the following periods: October 19--DCP and chart not working properly; October 25,26,27--Inlets frozen; October 28, 2002 to May 22, 2003 when station was closed for winter. The record is good, except for flows above 200 cfs which are poor due to lack of recent measurements in this range. This is a partial year record, re-established on May 15, 1992 by Division of Water Resources personnel after the USGS dropped publication. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--SSVWARCO USED FROM 01-OCT-2002 TO 28-OCT-2002
SSVWARCO10 USED FROM 22-MAY-2003 TO 15-OCT-2003

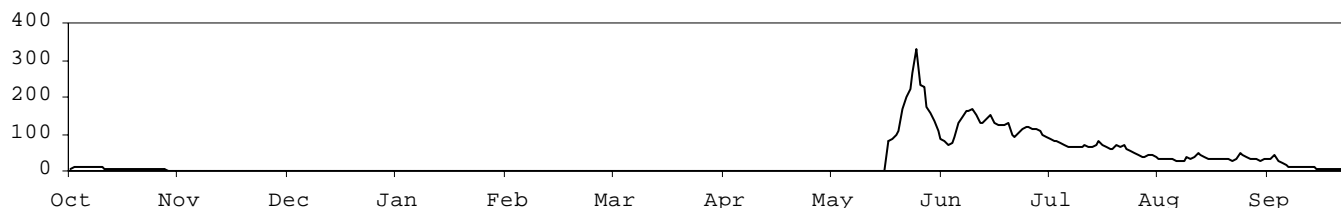
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7	-	-	-	-	-	-	-	227	117	42	38
2	9.3	-	-	-	-	-	-	-	174	114	40	34
3	10	-	-	-	-	-	-	-	159	113	40	33
4	9.6	-	-	-	-	-	-	-	136	106	44	31
5	11	-	-	-	-	-	-	-	109	98	42	29
6	9.5	-	-	-	-	-	-	-	88	91	38	31
7	8.9	-	-	-	-	-	-	-	82	84	34	31
8	9	-	-	-	-	-	-	-	71	79	35	33
9	8.8	-	-	-	-	-	-	-	74	80	35	42
10	8.2	-	-	-	-	-	-	-	94	73	32	26
11	7.9	-	-	-	-	-	-	-	128	68	30	19
12	7.1	-	-	-	-	-	-	-	145	65	28	16
13	7.5	-	-	-	-	-	-	-	163	66	26	13
14	6.3	-	-	-	-	-	-	-	163	65	26	13
15	6.5	-	-	-	-	-	-	-	169	64	36	11
16	5	-	-	-	-	-	-	-	149	67	34	9.1
17	5.1	-	-	-	-	-	-	-	131	72	39	8.8
18	4.7	-	-	-	-	-	-	-	132	66	46	9.7
19	5.5	-	-	-	-	-	-	-	143	64	42	9.5
20	6.4	-	-	-	-	-	-	-	152	70	37	8.7
21	5.1	-	-	-	-	-	-	-	131	79	35	8.1
22	6.2	-	-	-	-	-	-	80	126	69	34	7.6
23	5.3	-	-	-	-	-	-	85	127	63	33	6.7
24	5.4	-	-	-	-	-	-	99	127	58	32	5.7
25	5	-	-	-	-	-	-	107	130	62	33	5.6
26	5	-	-	-	-	-	-	167	98	68	33	5.1
27	5	-	-	-	-	-	-	199	94	65	30	4.8
28	5	-	-	-	-	-	-	223	103	68	29	5.1
29	-	-	-	-	-	-	-	263	116	61	30	5.4
30	-	-	-	-	-	-	-	330	119	54	51	5.3
31	-	---	-	-	---	-	---	233	---	46	45	---
TOTAL	195.3	-	-	-	-	-	-	1786	3860	2315	1111	505.2
MEAN	6.3	-	-	-	-	-	-	57.6	129	75	36	16.8
AC-FT	387	-	-	-	-	-	-	3540	7660	4590	2200	1000
MAX	11	-	-	-	-	-	-	330	227	117	51	42
MIN	-	-	-	-	-	-	-	-	71	46	26	4.8

WTR YR 2003 TOTAL 9772.5 MEAN 26.8 MAX 330 MIN - AC-FT 19380

MAX DISCH: 382 CFS AT 02:15 ON May. 30, 2003 GH 3.24 FT. SHIFT -.07 FT.
MAX GH: 3.24 FT. AT 02:15 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

LEFTHAND DIVERSION AT SO. ST. VRAIN CREEK NEAR WARD, CO

LOCATION.--Lat 40°05'29", long 105°30'31", the gage is located ½ mile downstream from gage on S. St. Vrain Creek off Highway 72.

PERIOD OF RECORD AND DRAINAGE AREA.--Established station on May 21, 1992 at request of Water Commissioner for administration of water rights in District 5, Div. 1. The gage is located one-quarter mile downstream from gage on South Saint Vrain Creek off Highway 72. This station is operated as a partial year record station usually from May to October.

GAGE.--A-71 continuous graphic chart recorder in a 42-inch corrugated shelter and concrete well with Data Collection Platform (DCP) as primary record. Primary reference is tape down from RP.

REMARKS.--Primary record is hourly satellite data. Daily mean chart data was used July 3-11, 2003 when the shaft encoder tape was out of the wheel bead. The record is complete and reliable except for the following periods: October 28, 2002 thru May 25, 2003 when station was closed for the season. The Record is good during the period of record, except for October 28 and May 25, which were estimated. This is a partial year record station. Diversions continue through the winter when the station is closed for winter conditions. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--LEFTHDCO02 USED FROM 01-OCT-2002 TO 07-OCT-2003
LEFTHDSH1 USED FROM 01-OCT-2002 TO 07-OCT-2003

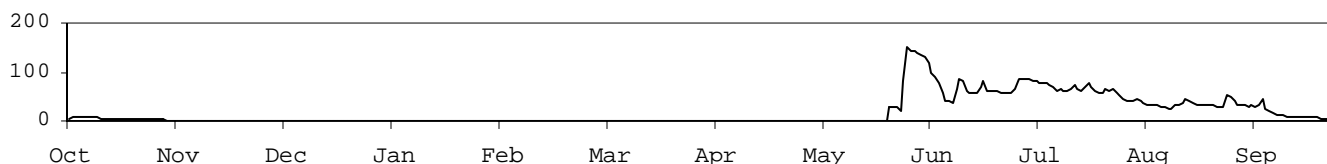
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	-	-	-	-	-	-	-	142	87	42	40
2	7	-	-	-	-	-	-	-	138	86	39	33
3	8	-	-	-	-	-	-	-	134	86	39	33
4	7.3	-	-	-	-	-	-	-	129	84	43	31
5	8.1	-	-	-	-	-	-	-	117	82	42	29
6	7.1	-	-	-	-	-	-	-	98	81	36	31
7	6.6	-	-	-	-	-	-	-	90	79	32	30
8	6.6	-	-	-	-	-	-	-	77	77	33	33
9	6.5	-	-	-	-	-	-	-	58	77	34	43
10	6.1	-	-	-	-	-	-	-	39	75	31	26
11	6.1	-	-	-	-	-	-	-	40	71	29	19
12	6.1	-	-	-	-	-	-	-	38	63	27	17
13	5.3	-	-	-	-	-	-	-	67	64	25	14
14	4.5	-	-	-	-	-	-	-	87	63	25	13
15	4.7	-	-	-	-	-	-	-	82	62	33	12
16	3.9	-	-	-	-	-	-	-	60	67	33	10
17	3.6	-	-	-	-	-	-	-	59	73	38	9.8
18	3.6	-	-	-	-	-	-	-	58	66	46	10
19	3.7	-	-	-	-	-	-	-	58	63	42	10
20	3.9	-	-	-	-	-	-	-	71	70	37	9.2
21	3.2	-	-	-	-	-	-	-	80	76	34	8.8
22	4.6	-	-	-	-	-	-	-	60	68	32	8.2
23	4.3	-	-	-	-	-	-	-	60	61	31	7.3
24	4.2	-	-	-	-	-	-	-	60	57	31	6.6
25	4.4	-	-	-	-	-	-	30	60	59	32	6.5
26	5.1	-	-	-	-	-	-	30	58	66	32	6
27	4.2	-	-	-	-	-	-	28	58	63	30	5.7
28	4	-	-	-	-	-	-	20	59	65	29	5.8
29	-	-	-	-	---	-	-	82	59	58	30	5.8
30	-	-	-	-	---	-	-	153	66	53	52	5.8
31	-	---	-	-	---	-	---	143	---	46	47	---
TOTAL	148.2	-	-	-	-	-	-	486	2262	2148	1086	519.5
MEAN	4.78	-	-	-	-	-	-	15.7	75	69	35	17.3
AC-FT	294	-	-	-	-	-	-	964	4490	4260	2150	1030
MAX	8.1	-	-	-	-	-	-	153	142	87	52	43
MIN	-	-	-	-	-	-	-	-	38	46	25	5.7

WTR YR 2003 TOTAL 6649.7 MEAN 18.2 MAX 153 MIN - AC-FT 13190

MAX DISCH: 163 CFS AT 18:00 ON May. 30, 2003 GH 2.29 FT. SHIFT -0.04 FT.
MAX GH: 2.29 FT. AT 18:00 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06724000 ST. VRAIN CREEK AT LYONS, CO

LOCATION.--Lat 40°13'05", long 105°15'34", in NW¼NW¼ sec. 20, T.3 N., R.70 W., Boulder County, Hydrologic Unit 10190005, on left bank 75 ft southwest of U.S. Highway 36 (State Highways 7 and 66) at southeast edge of Lyons, 400 ft upstream from St. Vrain Supply Canal, and 0.4 mi downstream from confluence of North and South St. Vrain Creeks.

DRAINAGE AREA AND PERIOD OF RECORD.--212 mi². Aug. 1887 to Sep. 1891, June 1895 to current year. Monthly only data for some periods. Water quality data available from Oct. 1977 to Feb. 1981.

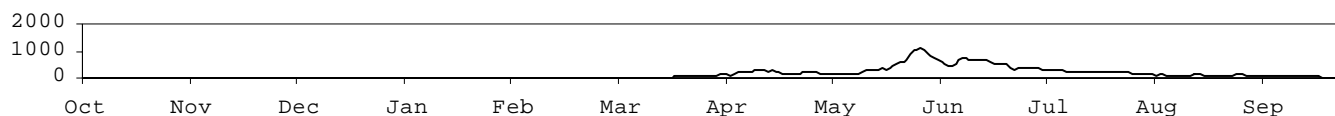
GAGE.--Water-stage recorder with satellite telemetry in timber shelter. The DCP is the primary record with chart recorder as backup. Supplemental outside staff gage. (NEW GAGE). Bubbler and manometer stage sensors (on separate orifice lines) in a wooden shelter, with no stilling well. Primary reference is an outside chain gage. Chart back up exists for periods when the manometer was operating; Two different bubbler instruments were used during the season--a Sutron Accububbler and a Design Analysis WaterLog system.

REMARKS.--(OLD GAGE) Primary record is hourly data taken from satellite monitoring with chart back up on the stilling well. From October 1 to March 24 (1000), record was taken from the old gage. This record is complete and reliable except for: December 24-27, 2002--inlets frozen; February 7-13, 2003--inlets frozen; February 24-March 8, 2003--inlets frozen. From March 24 (1100), record was taken at the new gage at a different datum. Primary record is hourly data taken from satellite monitoring using a bubbler with chart back up from the manometer. The record is complete and reliable except for: April 11-15; June 19-20--Bubbler and Manometer failures; Mean daily chart (manometer) GH's were used for June 21-24, when the bubbler was not working. The record is good except for the following periods which are estimated and poor: December 24-27; February 7-13; February 24-March 8; April 11-15; June 19-20. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.-- SVCLYOCO22 USED FROM 01-OCT-2002 TO 24-MAR-2003; SVCLYOCO23 USED FROM 24-MAR-2003 TO 24-MAY-2003; SVCLYOSH1 USED FROM 24-MAY-2003 TO 29-MAY-2003; SVCLYOSH2 USED FROM 29-MAY-2003 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	12	1.3	11	8.9	10	74	187	1070	355	167	117
2	23	11	1.1	9.9	10	10	109	173	873	350	145	95
3	20	11	.92	9.8	8.5	11	140	169	797	360	129	85
4	17	9.4	.92	9.7	6.6	11	135	169	738	344	136	84
5	16	9.3	.89	8.8	8.6	11	124	157	663	329	129	75
6	11	8.7	.76	8.9	8.2	12	111	145	570	308	114	74
7	9.3	8.5	.77	6.7	8	12	123	142	511	288	105	75
8	6.6	11	1.1	6.7	8	12	189	134	428	269	112	90
9	4.3	14	1.2	6.1	8	11	194	125	431	300	115	105
10	3.9	13	1.1	2.2	8	9.4	207	176	550	292	105	103
11	3.4	13	1.2	6.4	7	9.3	219	162	687	273	98	92
12	5	13	1.2	9.5	7	9	240	154	738	259	91	90
13	6.6	15	1.2	9.4	9	9.8	260	163	724	248	87	80
14	4.6	10	1	8.8	9.4	12	280	195	671	241	84	76
15	6	8.8	1.2	8.1	10	15	300	284	694	233	79	69
16	7.8	6	1.1	5.7	9.9	15	303	310	697	225	76	60
17	6.2	7.8	.53	7.4	8.8	18	253	281	642	231	76	55
18	4.4	9.9	.5	5.6	7.1	32	262	292	641	229	124	57
19	14	10	.47	9.4	7.6	34	244	318	640	240	146	57
20	18	9.8	1	7.4	8	36	203	343	610	235	116	55
21	16	9.7	1.7	6.7	7.6	38	175	326	555	229	96	50
22	18	8.4	2.8	4.6	6.5	53	156	335	543	217	89	47
23	20	10	2	7.9	6.8	68	167	421	531	211	81	43
24	23	11	3	9.4	9	88	163	482	506	201	79	37
25	21	11	4	8	11	76	161	563	485	193	85	35
26	17	6.6	6	8	13	78	176	620	380	204	85	34
27	17	3.1	8	9.4	11	87	190	686	329	200	75	33
28	17	1.5	9.9	9.5	10	72	193	883	355	211	69	31
29	19	1.5	9	6.7	---	64	202	1010	400	218	72	30
30	16	1.4	9.1	7.6	---	59	202	1070	395	220	160	28
31	14	---	11	8.4	---	59	---	1080	---	183	146	---
TOTAL	402.1	275.4	85.96	243.7	241.5	1041.5	5755	11555	17854	7896	3271	1962
MEAN	13	9.2	2.77	7.9	8.6	33.6	192	373	595	255	106	65
AC-FT	798	546	171	483	479	2070	11420	22920	35410	15660	6490	3890
MAX	23	15	11	11	13	88	303	1080	1070	360	167	117
MIN	3.4	1.4	.47	2.2	6.5	9	74	125	329	183	69	28
WTR YR 2003	TOTAL 50583.16		MEAN		139	MAX	1080	MIN	.47	AC-FT	100300	
MAX DISCH: 1220 CFS AT 23:15 ON May. 30, 2003 GH 3.9 FT. SHIFT -0.36 FT.												
MAX GH: 3.9 FT. AT 23:15 ON May. 30, 2003												
FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.												



PLATTE RIVER BASIN

06725500 MIDDLE BOULDER CREEK AT NEDERLAND, CO

LOCATION.--Lat 39°57'42", long 105°30'14", in NE¼SE¼ sec. 13, T.1 S., R.73 W., Boulder County, Hydrologic Unit 10190005, on left bank at Nederland just downstream from North Beaver Creek at inlet to Barker Reservoir.

DRAINAGE AREA.--36.2 mi².

GAGE.--Water-stage recorder and data collection platform in wooden shelter with concrete well at a compound sharp-crested weir. DCP is the primary record with chart recorder as backup. The DCP was upgraded to a High Data Rate (HDR) during the 2002 Water Year. A new continuous graphic stage recorder was installed in June of 2003 and the weekly recorder was removed.

REMARKS.--Record is complete and reliable, except for the following periods, which are considered poor when the stage-discharge relation was affected by ice catching on the weir and inlets freezing: November 27, 28, 29, 2002; December 3, 4, 6-13, 20, 26-31, 2002; January: 1-3, 10-19, 2003. Record is fair, except for ice affected days, which are estimated. Station maintained by Public Service Co and record developed by M.L. Cunning.

RATING TABLE.--BOCMIDCO07 USED FROM 01-OCT-2002 TO 30-SEP-2003

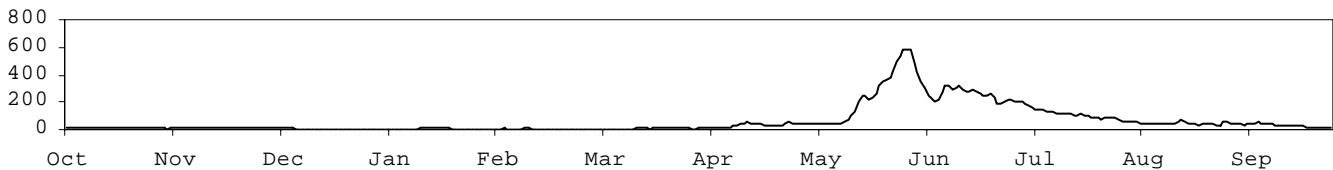
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	7.7	1.6	5.9	5.1	8.8	46	577	207	60	41
2	16	12	8	1.2	5.7	5.2	11	44	482	205	57	37
3	18	10	7.9	3.4	6	5.2	12	45	420	208	60	38
4	16	13	7.3	5.8	7.6	5	11	46	353	192	64	38
5	16	10	7.5	5.9	5.8	5	9.8	43	301	180	55	35
6	15	11	7.1	5.8	5.9	5.5	9.4	42	248	166	49	43
7	15	10	6.5	5.9	5.4	5.2	9.2	42	234	150	47	41
8	17	9.8	6.1	5.8	5.8	5.3	9.7	42	201	143	47	44
9	15	10	5.5	5.4	4.8	5.2	11	40	223	142	46	61
10	14	11	5.5	4.5	8.2	6.2	16	41	280	134	44	48
11	13	11	5.3	8.9	8.6	6.9	24	39	319	127	42	45
12	12	12	4.5	12	5.5	6.4	29	43	325	126	40	41
13	11	11	4.9	13	5.1	6.7	38	55	295	121	39	37
14	11	9.8	6.8	16	5.1	7.6	48	77	302	116	39	35
15	11	9.3	6.8	14	5.1	8.3	52	99	314	113	37	31
16	10	12	6.7	12	4.9	8.1	45	136	296	111	37	30
17	9.8	9.7	6.5	10	4.9	7.6	44	198	276	113	59	28
18	9.9	8.9	6.7	9.8	4.9	6.6	43	246	282	109	68	30
19	9.4	11	3.4	9.1	4.6	8.7	39	253	291	105	54	31
20	9.1	8.9	2.6	6.9	5.6	15	36	224	280	116	44	29
21	8.8	8.9	2.4	6.3	4.6	15	34	232	260	105	40	26
22	9.3	8.8	2.5	6.1	4.9	12	34	261	253	95	38	25
23	9.6	8.6	2.2	6.1	5.4	11	33	315	251	90	36	21
24	10	8.1	1.7	5.8	5.7	9.4	32	352	255	84	39	19
25	9.2	8.8	1.2	5.9	5.8	8.4	35	360	235	84	43	18
26	9.8	9.6	1.5	5.7	5.2	7.9	44	376	193	79	43	17
27	11	8	3.5	5.8	5.5	7.6	51	423	195	82	37	17
28	10	8	3.2	5.6	5.3	7.3	48	488	207	84	35	17
29	9.3	8	5.6	5.4	---	7.4	50	540	219	84	35	16
30	6.9	7.9	2.7	6.2	---	7.2	50	584	216	82	63	16
31	11	---	1.5	5.7	---	7.1	---	581	---	66	51	---
TOTAL	365.1	295.1	151.3	221.6	157.8	235.1	916.9	6313	8583	3819	1448	955
MEAN	11.8	9.8	4.9	7.2	5.6	7.6	30.6	204	286	123	47	32
AC-FT	724	585	300	440	313	466	1820	12520	17020	7570	2870	1890
MAX	18	13	8	16	8.6	15	52	584	577	208	68	61
MIN	6.9	7.9	1.2	1.2	4.6	5	8.8	39	193	66	35	16

WTR YR 2003 TOTAL 23460.9 MEAN 64.3 MAX 584 MIN 1.2 AC-FT 46530

MAX DISCH: 662 CFS AT 21:30 ON May. 31, 2003 GH 3.87 FT. SHIFT 0 FT.
MAX GH: 3.87 FT. AT 21:30 ON May. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06727000 BOULDER CREEK NEAR ORODELL, CO

LOCATION.--Lat 40°00'23", long 105°19'49", in NE¼SW¼ sec. 34, T.1 N., R.71 W., Boulder County, Hydrologic Unit 10190005, on left bank along State Highway 119, 0.7 mi southwest of old Orodell, 1.1 mi upstream from Fourmile Creek, and 2.9 mi southwest of courthouse in Boulder.

DRAINAGE AREA.--102 mi².

GAGE.--Stevens A35 graphic water-stage recorder and Sutron 8210 DCP with shaft encoder in a 6 foot by 6 foot exposed aggregate concrete shelter with a 54-inch corrugated metal well. The primary reference is a tape down from RP. There is an outside staff gage across the stream that reads approximately 1 foot lower than gage datum. The data collection platform (DCP) provides the primary record. The station now includes a pressure transducer installed by Urban Drainage and Flood Control District.

REMARKS.--Primary record is taken from hourly satellite data, with graphic chart as backup. Record is complete and reliable, except for the winter record where the station was off. Measurements were made approximately every two weeks to create an estimated record. Estimates for these days were taken from the daily average releases from Barker Reservoir provided from the City of Boulder caretaker of Barker Reservoir. These days are included in the following list: December 26, 2002 - April 2, 2003. Record is good, except for the period December 26, 2002 through April 2, 2003 in which the station was off. Station maintained and record developed by M.L. Cunning.

RATING TABLE.--BOCOROCO13 USED FROM 01-OCT-2002 TO 03-SEP-2003
BOCOROCO13 USED FROM 03-SEP-2003 TO 10-OCT-2003

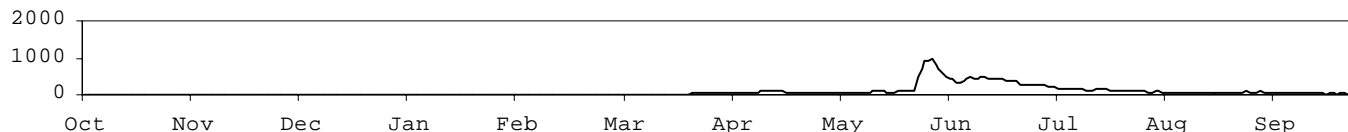
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	13	11	9.7	5	4.8	54	52	988	275	93	74
2	12	11	12	9.3	5.2	4.8	56	50	830	259	77	80
3	12	13	14	9.3	5.5	4.8	62	60	706	256	77	98
4	13	13	13	8.9	5.7	5	55	58	596	232	91	77
5	10	12	12	8.9	5.7	5.2	48	61	500	218	83	65
6	9.4	13	12	8.9	6	5.5	42	63	418	198	73	66
7	12	13	12	9.3	6.3	5.7	39	65	411	186	51	72
8	11	13	12	9.7	6.6	6	38	66	329	168	66	69
9	11	12	12	9.7	6.6	6.3	41	68	328	161	75	79
10	11	11	12	10	6.9	6.6	49	72	392	153	72	73
11	11	13	13	11	7.2	6.9	62	69	440	144	65	64
12	11	12	13	11	7.5	7.2	77	71	476	145	80	68
13	12	13	13	11	7.6	7.5	86	74	455	145	71	47
14	11	13	13	11	7.5	7.7	92	79	449	139	60	52
15	9.7	12	13	11	7.5	7.8	93	94	484	127	47	60
16	8.9	12	13	12	7.2	8.2	86	96	486	128	52	46
17	6.9	13	10	12	6.9	8.5	88	89	437	134	46	49
18	6.8	13	12	11	6.9	8.9	85	85	445	137	62	47
19	6.2	12	12	11	6.6	9.3	82	80	434	141	79	37
20	6.1	11	12	10	6.3	11	69	66	457	151	80	36
21	6	11	11	9.7	6.3	12	61	71	406	154	76	28
22	7.4	14	11	8.9	6	17	61	87	393	132	68	27
23	6.4	11	11	8.5	5.7	22	60	95	396	118	59	28
24	6.4	11	11	7.8	5.7	29	56	102	385	111	50	28
25	7.2	12	11	7.2	5.5	35	50	104	375	119	52	26
26	6.8	12	11	6.9	5.2	40	55	116	297	118	54	32
27	6.4	11	11	6.3	5.2	44	61	123	280	112	52	33
28	6.2	11	10	6	5	48	66	505	260	109	51	21
29	8.2	10	10	5.5	---	50	61	700	267	107	47	16
30	13	11	10	5.2	---	51	57	922	280	103	89	18
31	15	---	9.7	5	---	52	---	906	---	111	74	---
TOTAL	287.2	362	362.7	281.7	175.3	537.7	1892	5149	13400	4791	2072	1516
MEAN	9.3	12	11.7	9.1	6.3	17.3	63	166	447	155	67	51
AC-FT	570	718	719	559	348	1070	3750	10210	26580	9500	4110	3010
MAX	15	14	14	12	7.6	52	93	922	988	275	93	98
MIN	6	10	9.7	5	5	4.8	38	50	260	103	46	16

WTR YR 2003 TOTAL 30826.6 MEAN 84.5 MAX 988 MIN 4.8 AC-FT 61140

MAX DISCH: 1040 CFS AT 05:00 ON Jun. 1, 2003 GH 3.79 FT. SHIFT 0.14 FT.
MAX GH: 3.79 FT. AT 05:00 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06729450 SOUTH BOULDER CREEK BELOW GROSS RESERVOIR NEAR COAL CREEK, CO

LOCATION.--Lat 39°56'19", long 105°20'55", SW¼ sec. 21, T.1 S., R.71 W., Boulder County. Measures releases from Gross Reservoir; which is filled by South Boulder Creek and transmountain diversions from Moffat Tunnel.

DRAINAGE AREA.--N/A

GAGE.--Graphic water stage recorder and satellite monitoring DCP with shaft encoder in timber shelter and concrete well at 25' Parshall flume with supplemental outside staff.. The primary reference is an electric tape gage. The DCP, updated to high data rate in 2002, is the primary record with chart backup. Station is owned and maintained by Denver Water Board personnel.

REMARKS.--Primary record is hourly DCP data with chart back up. The record is complete and reliable. The record is good. Record developed by M. L. Cunning.

RATING TABLE.--STD25FTPF USED FROM 01-OCT-2002 TO 03-OCT-2003

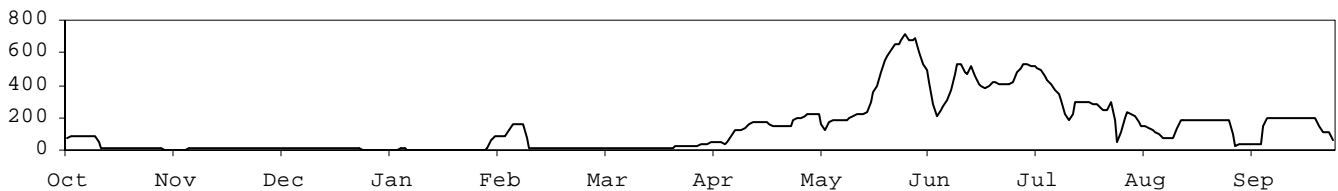
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	5	12	6.1	81	8.4	31	214	681	481	200	99
2	85	5.1	12	6.1	81	8.4	31	225	686	509	230	25
3	89	5.2	12	6.1	81	8.4	38	225	609	525	219	32
4	90	5.5	12	6.1	81	8.4	46	225	534	535	213	38
5	90	6.6	12	6.2	127	8.4	49	225	494	522	173	40
6	90	7.8	12	6.3	157	8.4	49	165	415	517	146	40
7	90	7.8	12	6.1	156	8.4	49	124	281	506	146	40
8	90	7.8	12	6.1	156	8.4	42	167	215	492	130	40
9	90	7.8	10	6.1	156	8.4	46	189	248	458	121	40
10	45	7.8	9.7	6.1	68	8.4	82	189	276	431	116	144
11	13	7.9	9.7	6.1	6.6	8.4	120	189	310	411	94	193
12	13	7.8	9.7	6.1	6.6	8.4	124	189	372	368	79	193
13	13	9.3	9.7	5.9	6.6	9.9	124	189	473	345	77	193
14	12	10	9.7	5.6	6.8	12	138	198	530	307	77	192
15	10	11	9.7	5.6	7.2	13	164	213	531	223	77	191
16	9.7	9.7	9.7	5.6	7.1	13	176	221	479	181	136	192
17	9.7	10	9.9	5.6	6.9	13	177	221	469	226	181	193
18	9.7	11	8.7	5.6	7.2	14	177	223	513	292	182	193
19	9.7	12	7.8	5.6	6.8	13	177	238	459	299	181	193
20	9.1	12	7.8	5.6	6.6	13	177	300	410	292	181	193
21	9	12	7.8	5	6.8	14	164	352	390	292	181	194
22	9	12	7.8	4.8	7	14	149	396	378	292	181	194
23	9	12	6.9	4.5	6.8	14	145	477	396	283	181	194
24	9	12	6.3	4.6	6.6	18	148	559	413	278	181	194
25	9	12	6.1	4.6	6.3	25	147	577	419	259	181	193
26	9	12	6.1	4.6	6.6	28	147	621	409	247	180	144
27	9.3	12	6.1	4.5	6.7	28	147	656	407	248	182	113
28	7.3	12	6.1	4.9	7.6	28	179	649	412	291	183	113
29	5.3	12	6.1	6	---	28	199	678	412	186	182	113
30	4.9	12	6.1	7.3	---	28	199	718	416	54	182	60
31	5	---	6.1	64	---	29	---	678	---	116	181	---
TOTAL	1032.7	287.1	279.6	233.4	1266.8	455.7	3641	10490	13037	10466	4954	3976
MEAN	33.3	9.6	9	7.5	45.2	14.7	121	338	435	338	160	133
AC-FT	2050	569	555	463	2510	904	7220	20810	25860	20760	9830	7890
MAX	90	12	12	64	157	29	199	718	686	535	230	194
MIN	4.9	5	6.1	4.5	6.3	8.4	31	124	215	54	77	25

WTR YR 2003 TOTAL 50119.3 MEAN 137 MAX 718 MIN 4.5 AC-FT 99410

MAX DISCH: 775 CFS AT 15:30 ON May. 30, 2003 GH 3.72 FT. SHIFT 0 FT.
MAX GH: 3.72 FT. AT 15:30 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

SOUTH BOULDER CREEK DIVERSION NEAR ELDORADO SPRINGS, CO

LOCATION.--Lat 39°56'00", long 105°18'10", SW¼ sec. 26, T.1 S., R.71 W., Boulder County. Diverts Denver Water Board rights released from Gross Reservoir to South Boulder Creek.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder at 12' Parshall flume in a timber shelter and concrete well with supplemental outside staff gage. Satellite monitoring installed Apr. 24, 1998 and DCP data is primary record with chart as back up. Station is owned and maintained by Denver Water Board personnel.

REMARKS.--DCP data is primary record with chart as backup. DCP record is complete and reliable. The record is good. Record developed by M.L.Cunning.

RATING TABLE.--BOSDELCO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

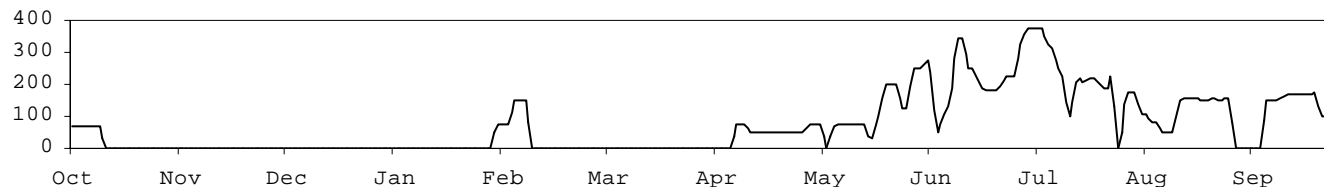
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	0	0	0	75	0	0	64	249	281	140	79
2	69	0	0	0	75	0	0	75	250	325	173	0
3	69	0	0	0	75	0	0	75	249	355	172	0
4	69	0	0	0	75	0	0	75	263	377	173	0
5	69	0	0	0	115	0	0	75	274	376	139	0
6	69	0	0	0	150	0	0	35	235	376	109	0
7	69	0	0	0	150	0	0	.03	121	376	108	0
8	69	0	0	0	150	0	.02	39	50	375	94	0
9	69	0	0	0	150	0	.03	71	78	347	84	.01
10	29	0	0	0	82	0	38	75	105	327	83	90
11	0	0	0	0	.1	0	77	74	132	310	65	151
12	0	0	0	0	0	0	77	75	185	272	49	151
13	0	0	0	0	0	0	77	74	281	251	49	151
14	0	0	0	0	0	0	61	75	342	222	49	151
15	0	0	0	0	0	0	51	75	342	145	50	157
16	0	0	0	0	0	0	50	75	291	100	100	164
17	0	0	0	0	0	0	50	74	250	142	150	166
18	0	0	0	0	0	0	50	75	250	208	154	168
19	0	0	0	0	0	0	50	35	223	219	155	169
20	0	0	0	0	0	0	50	33	201	209	155	169
21	0	0	0	0	0	0	50	75	188	213	155	169
22	0	0	0	0	0	0	50	103	181	216	154	169
23	0	0	0	0	0	0	50	156	181	216	152	169
24	0	0	0	0	0	0	50	200	181	214	152	170
25	0	0	0	0	0	0	50	199	181	201	153	172
26	0	0	0	0	0	0	50	199	192	190	156	131
27	0	0	0	0	0	0	50	200	215	189	155	98
28	0	0	0	0	0	0	50	155	228	223	153	98
29	0	0	0	0	---	0	50	125	228	132	153	99
30	0	0	0	0	---	0	50	126	224	0	154	50
31	0	---	0	47	---	0	---	195	---	53	154	---
TOTAL	649	0	0	47	1097.1	0	1131.05	2982.03	6370	7440	3942	3091.01
MEAN	20.9	0	0	1.52	39.2	0	37.7	96.2	212	240	127	103
AC-FT	1290	0	0	93	2180	0	2240	5910	12630	14760	7820	6130
MAX	69	0	0	47	150	0	77	200	342	377	173	172
MIN	0	0	0	0	0	0	0	.03	50	0	49	0

WTR YR 2003 TOTAL 26749.19 MEAN 73.3 MAX 377 MIN 0 AC-FT 53060

MAX DISCH: 381 CFS AT 11:45 ON Jul. 4, 2003 GH 3.71 FT. SHIFT 0 FT.
MAX GH: 3.71 FT. AT 11:45 ON Jul. 4, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06729500 SOUTH BOULDER CREEK NEAR ELDORADO SPRINGS, CO

LOCATION.--Lat 39°55'52", long 105°17'43", in SE¼ sec. 26, T.1 S., R.71 W., Boulder County, Hydrologic Unit 10190005, on left bank 0.2 mi downstream from South Draw, 1.0 mi west of Eldorado Springs, 1.8 mi downstream from South Boulder diversion canal, 5.0 mi south of Boulder, and 6.7 mi downstream from Gross Reservoir.

DRAINAGE AREA.--109 mi².

GAGE.--Graphic water stage recorder and Sutron High Data Rate (HDR) satellite monitoring DCP in metal box shelter and corrugated metal pipe well. Supplemental outside chain gage. The data collection platform (DCP) is the primary record having the graphic chart as a backup.

REMARKS.--Record is complete and reliable except for the following periods: December 11, 2002 - March 11: Station closed for winter. Chart record had a slow clock, which had to be adjusted at visits. The record is good, except for the following days which were estimated with bi-weekly measurements while the station was shut down for the winter: December 11, 2002 through March 11, 2003. Also, the high flows May 23 to June 3, including the peak, are Fair due to lack of good definition by measurements. Station maintained and record developed by M.L.Cunning.

RATING TABLE.--BOCELSCO22 USED FROM 01-OCT-2002 TO 24-MAY-2003
BOCELSCO23 USED FROM 24-MAY-2003 TO 03-OCT-2003

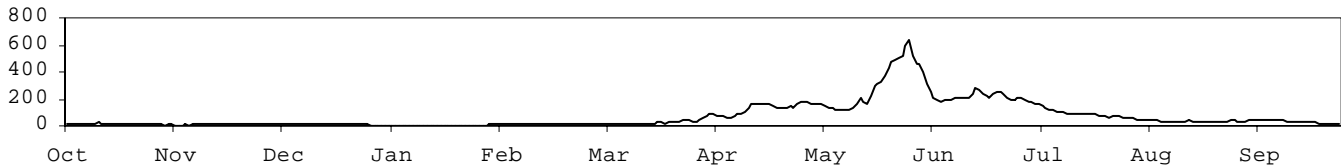
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	6.4	15	5.5	9.1	7.9	65	171	456	209	59	37
2	17	5.2	15	5.1	9.7	7.9	79	169	459	198	60	28
3	22	6.6	15	4.7	10	7.9	84	166	394	182	50	34
4	22	13	16	4.3	11	7.9	84	163	308	175	43	42
5	22	6.7	15	4	12	7.9	77	160	249	163	41	43
6	22	9.8	16	3.6	12	7.9	71	143	211	156	39	43
7	22	9.5	16	3.2	13	7.9	68	128	191	142	40	43
8	22	9.5	16	2.9	13	8.3	61	128	185	126	40	43
9	22	9.5	16	2.5	12	9.1	61	123	186	120	40	43
10	23	9.5	16	2.3	12	9.7	72	123	190	113	36	45
11	13	9.5	16	2.3	12	9.9	90	122	196	110	33	44
12	13	16	15	2.5	11	9.5	96	123	202	107	30	44
13	13	11	14	2.7	11	10	99	121	207	102	28	43
14	15	14	14	2.9	11	13	130	130	207	95	29	42
15	8.9	15	13	3.1	10	16	164	167	207	87	29	37
16	8.2	13	12	3.3	9.9	16	165	209	206	85	31	29
17	8.2	13	12	3.5	9.5	18	169	183	240	85	36	27
18	8	14	11	3.7	9.2	21	165	170	287	89	47	25
19	8.1	16	11	3.9	8.9	28	167	229	264	89	35	23
20	7.9	16	10	4.1	8.4	27	167	299	231	89	34	23
21	8	16	10	4.3	8.4	22	154	309	220	86	35	23
22	8	16	9.5	4.5	8.4	23	139	327	210	83	36	23
23	8.4	16	9	4.7	8.4	28	133	365	231	75	37	23
24	8.5	16	8.6	4.7	8.4	30	137	429	253	70	36	22
25	8.4	16	8.1	4.9	8.4	29	139	471	257	67	35	19
26	8.3	16	7.6	5.4	8.4	42	142	491	234	64	33	18
27	8.2	16	7.4	5.9	8.4	49	140	499	204	69	34	17
28	7.5	16	7.2	6.6	8.2	40	158	525	195	74	35	17
29	7.3	16	6.8	7.2	---	35	176	589	195	76	36	16
30	8.8	16	6.3	7.8	---	34	173	639	202	55	45	18
31	8.4	---	5.9	8.4	---	42	---	520	---	56	38	---
TOTAL	397	383.2	370.4	134.5	281.7	624.8	3625	8391	7277	3297	1180	934
MEAN	12.8	12.8	11.9	4.3	10.1	20.2	121	271	243	106	38	31
AC-FT	787	760	735	267	559	1240	7190	16640	14430	6540	2340	1850
MAX	23	16	16	8.4	13	49	176	639	459	209	60	45
MIN	7.3	5.2	5.9	2.3	8.2	7.9	61	121	185	55	28	16

WTR YR 2003 TOTAL 26895.6 MEAN 73.7 MAX 639 MIN 2.3 AC-FT 53350

MAX DISCH: 705 CFS AT 12:15 ON May. 30, 2003 GH 3.56 FT. SHIFT 0.03 FT.
MAX GH: 3.56 FT. AT 12:15 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06730300 COAL CREEK NEAR PLAINVIEW, CO

LOCATION.--Lat 39°52'41", long 105°16'38"

DRAINAGE AREA AND PERIOD OF RECORD.--15.1 mi²; 1959 to present.

GAGE.--Graphic water-stage recorder and satellite monitoring in a 42-inch diameter corrugated metal shelter. The primary reference is a drop tape with a supplemental outside staff gage.

REMARKS.--Hourly data from the DCP is the primary record, with the recorder as back up. DCP record is complete and reliable. The record is good. The Coal Creek gage is generally closed during the winter and may be a partial year record. This year the gage was kept open with relatively good success. Station maintained and record developed by M. L. Cunning.

RATING TABLE.--COCREPCO08 USED FROM 01-OCT-2002 TO 02-OCT-2003

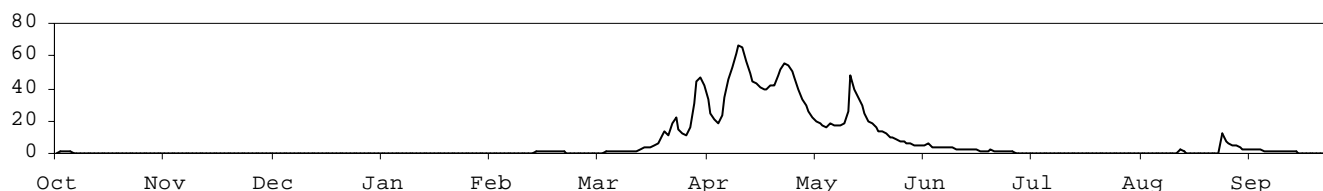
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.26	.27	.16	.35	.09	31	39	6.2	.73	.04	5.7
2	.66	.28	.27	.16	.31	.11	44	33	5.6	.58	.04	4.5
3	1.1	.31	.27	.16	.31	.45	47	29	5.2	.47	.03	4.4
4	.84	.36	.27	.16	.31	.53	42	26	5	.4	.02	3.6
5	.63	.36	.27	.18	.31	.54	33	22	5.3	.32	.01	3
6	.5	.39	.27	.17	.31	.6	25	20	4.7	.26	.01	2.7
7	.41	.4	.27	.16	.31	.72	21	18	5.6	.26	.01	2.8
8	.34	.44	.27	.19	.21	.83	19	17	4.3	.26	.01	2.5
9	.33	.45	.25	.19	.1	.95	23	16	3.9	.2	0	2.2
10	.29	.42	.23	.19	.11	.98	35	18	3.6	.16	0	1.9
11	.25	.38	.23	.19	.1	1.1	46	17	3.3	.13	0	1.6
12	.23	.34	.23	.19	.08	1.2	53	17	3.4	.11	0	1.3
13	.23	.35	.21	.19	.42	1.3	61	17	3.2	.08	0	1.4
14	.23	.35	.23	.19	.61	1.6	66	19	3.1	.05	0	1.4
15	.23	.35	.23	.19	.73	1.8	65	26	2.8	.05	0	1.1
16	.23	.33	.24	.2	.71	1.7	57	48	2.5	.04	0	.87
17	.21	.31	.27	.19	.78	2	49	39	2.4	.03	0	.8
18	.19	.31	.29	.21	.82	3.2	44	35	2.4	.02	1.9	1.1
19	.19	.31	.27	.19	.67	3.6	43	30	2.3	.02	.91	.91
20	.18	.31	.27	.19	.67	4.3	41	25	2.2	.01	.01	.73
21	.17	.27	.27	.23	.69	5	40	20	2	.01	.02	.61
22	.18	.27	.27	.24	.66	6.3	40	18	1.7	.01	.02	.57
23	.19	.27	.23	.28	.78	11	42	16	1.8	.01	.02	.48
24	.19	.31	.23	.25	.55	14	42	14	1.8	0	.01	.43
25	.19	.31	.23	.27	.31	11	48	13	2	0	.01	.41
26	.19	.27	.23	.25	.05	19	52	12	1.6	0	.01	.31
27	.19	.27	.23	.27	.06	22	55	10	1.2	0	.01	.33
28	.19	.27	.21	.29	.07	15	54	9.3	1	.01	.01	.38
29	.22	.27	.17	.31	---	12	51	8.2	1	.05	.05	.39
30	.23	.27	.16	.31	---	11	47	7.3	.99	.05	12	.41
31	.23	---	.16	.35	---	16	---	7.2	---	.03	7.5	---
TOTAL	9.51	9.79	7.5	6.7	11.39	169.9	1316	646	92.09	4.35	22.65	48.83
MEAN	.31	.33	.24	.22	.41	5.48	44	20.8	3.07	.14	.73	1.63
AC-FT	19	19	15	13	23	337	2610	1280	183	8.6	45	97
MAX	1.1	.45	.29	.35	.82	.22	66	48	6.2	.73	12	5.7
MIN	.07	.26	.16	.16	.05	.09	19	7.2	.99	0	0	.31

WTR YR 2003 TOTAL 2344.71 MEAN 6.42 MAX 66 MIN 0 AC-FT 4650

MAX DISCH: 84.9 CFS AT 00:00 ON May. 16, 2003 GH 1.54 FT. SHIFT -0.03 FT.
MAX GH: 1.54 FT. AT 00:00 ON May. 16, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06731000 ST. VRAIN CREEK AT MOUTH, NEAR PLATTEVILLE, CO

LOCATION.--Lat 40°15'29", long 104°52'45", in SE¼NW¼ sec. 3, T,3 N., R.67 W., Weld County, Hydrologic Unit 10190005, on right bank 140 ft downstream from bridge on county road, 1.3 mi upstream from mouth, and 4.2 mi northwest of Platteville.

DRAINAGE AREA AND PERIOD OF RECORD.--976 mi²; 1927 to present.

GAGE.--Graphic water-stage recorder and satellite monitoring DCP in a 54 inch metal pipe shelter and well. A Sutron Accububbler was installed May 8, 2002 as a back up. Data collection platform is the primary record with graphic chart as backup. The primary reference for the Accububbler is the outside staff, which was installed in April at a datum 1.0 ft. lower so that lower stages could be recorded.

REMARKS.--The primary record is hourly satellite data from the following sources and dates: October 1 - November 14, 2002: Stilling Well; November 15, 18, 22: Accubar; November 16-17, 19-21, 23-30: Stilling Well; December 1 - March 13, 2003: Accubar (Well Beached most of time)March 14-24, 28-31: Stilling Well; March 1-13, 25-27:Accubar; April 1-20: Stilling Well; April 21-May 14, 18-21:Accubar; May 15-17, 22-31: Stilling Well; June 1-7, 12-30: Stilling Well; June 8-11: Accubar; July 1-3, 18-25: Stilling Well; July 4-17, 26-31: Accubar; August 1-18: Accubar;August 19-31: Stilling Well; September 1-11: Accubar; September 12-30: Stilling Well. Daily maximum and minimum stages for the satellite record checked to within ± 0.02 with the chart. The record is good and reliable except for March 14-17, 2003 when the DCP was down and the stilling well was beached. This period was estimated and considered fair. Station maintained and record developed by M. Lee Cuning.

RATING TABLE.--SVCPLACO27 USED FROM 01-OCT-2002 TO 10-OCT-2003

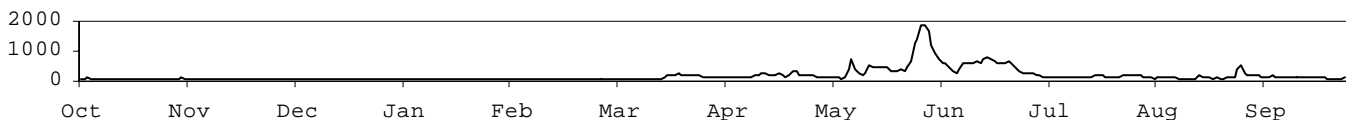
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	89	69	61	65	62	126	161	1880	298	187	298
2	89	84	69	61	60	63	156	158	1640	286	183	227
3	108	81	69	63	61	64	160	137	1210	220	163	206
4	99	75	69	62	60	60	166	132	911	174	131	205
5	80	72	70	59	60	61	149	112	757	131	105	190
6	83	73	67	58	64	59	154	106	622	121	98	164
7	81	74	67	63	60	57	151	101	595	133	106	159
8	83	75	67	65	66	54	147	99	457	138	149	159
9	80	74	64	60	70	52	135	109	333	121	137	167
10	80	67	69	56	64	52	125	418	292	114	125	166
11	80	65	66	55	66	61	122	726	430	114	117	159
12	74	63	69	64	62	75	164	408	573	119	105	131
13	71	66	65	62	62	59	196	285	610	117	100	122
14	70	66	66	64	57	59	213	222	605	117	90	114
15	71	63	65	64	56	59	241	236	628	117	82	108
16	73	64	65	60	59	56	243	516	691	120	77	109
17	86	65	70	58	53	61	195	481	615	121	80	105
18	77	64	63	59	56	136	195	450	737	113	70	122
19	71	65	66	58	56	199	214	436	783	123	205	127
20	69	71	61	57	54	207	248	468	745	168	159	115
21	68	67	67	58	56	228	194	438	679	178	114	106
22	77	72	65	55	52	238	157	345	605	177	109	104
23	78	68	66	52	51	200	175	302	618	154	100	104
24	79	67	64	59	54	206	357	313	629	148	105	102
25	82	73	56	57	54	203	318	384	647	137	99	98
26	81	75	54	58	65	179	222	350	627	145	100	96
27	73	68	68	57	65	171	206	472	461	161	108	94
28	76	74	71	60	72	183	206	682	339	172	106	94
29	87	72	66	58	---	141	188	1240	291	172	128	98
30	103	69	62	62	---	122	180	1390	293	181	378	103
31	98	---	61	67	---	116	---	1870	---	175	526	---
TOTAL	2492	2121	2036	1852	1680	3543	5703	13547	20303	4765	4342	4152
MEAN	80	71	66	60	60	114	190	437	677	154	140	138
AC-FT	4940	4210	4040	3670	3330	7030	11310	26870	40270	9450	8610	8240
MAX	108	89	71	67	72	238	357	1870	1880	298	526	298
MIN	65	63	54	52	51	52	122	99	291	113	70	94

WTR YR 2003 TOTAL 66536 MEAN 182 MAX 1880 MIN 51 AC-FT 132000

MAX DISCH: 2070 CFS AT 19:00 ON May. 31, 2003 GH 6.82 FT. SHIFT -0.23 FT.
MAX GH: 6.82 FT. AT 19:00 ON May. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

WIND RIVER NEAR ESTES PARK, CO

LOCATION.--Lat 40°19'38", long 105°34'53"

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder with satellite telemetry in a wooden shelter with a concrete well and a 4' Parshall flume. The electric drop tape is the primary reference. The DCP is the primary record with chart backup. The Parshall flume and the well were replaced in August of 1995 due to extreme settling over the years.

REMARKS.--The record is hourly satellite data with chart back up. It is complete and reliable except for the following days: November 4, 2002 thru April 28, 2003: Closed for winter; October 30, 31; November 3, 4: Stage discharge relationship affected by ice. Satellite data GH's agreed with chart data to within +0.02 except for periods in September when the chart recorder showed unexplained drift. This is a partial year record station operated as part of the Colorado Big Thompson Project. The record is good, except for October 30, 31 and November 3, 4 which were estimated. Stream flows are affected by diversions above the station amounting to approximately 300 AF per water year. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--WINDESCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

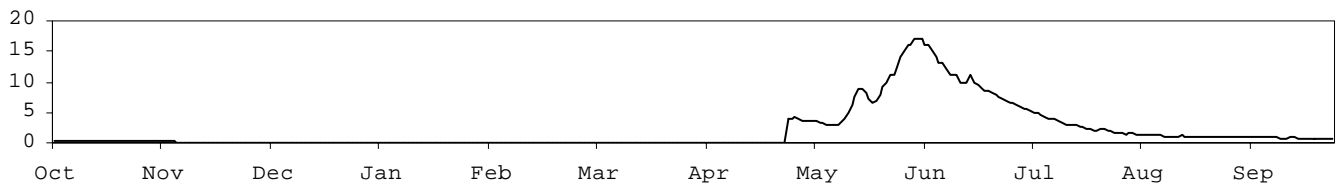
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.41	-	-	-	-	-	4	16	6.4	1.5	.96
2	.42	.35	-	-	-	-	-	3.7	16	6.1	1.4	.93
3	.38	.35	-	-	-	-	-	3.6	17	5.9	1.6	.92
4	.37	.35	-	-	-	-	-	3.6	17	5.7	1.5	.87
5	.36	-	-	-	-	-	-	3.6	17	5.5	1.3	.86
6	.35	-	-	-	-	-	-	3.5	16	5.2	1.3	.88
7	.34	-	-	-	-	-	-	3.4	16	5	1.4	.98
8	.34	-	-	-	-	-	-	3.3	15	4.8	1.3	.94
9	.34	-	-	-	-	-	-	3	14	4.6	1.2	1
10	.34	-	-	-	-	-	-	2.8	13	4.3	1.2	.92
11	.34	-	-	-	-	-	-	2.9	13	3.9	1.3	.89
12	.28	-	-	-	-	-	-	3.1	12	3.8	1.2	.85
13	.23	-	-	-	-	-	-	3.4	11	3.8	1.1	.91
14	.28	-	-	-	-	-	-	4	11	3.5	1.1	.89
15	.31	-	-	-	-	-	-	5	11	3.4	1	.81
16	.37	-	-	-	-	-	-	6.1	10	3.1	.95	.81
17	.37	-	-	-	-	-	-	7.7	10	3	1.1	.79
18	.31	-	-	-	-	-	-	8.7	9.9	2.9	1.2	.86
19	.34	-	-	-	-	-	-	8.8	11	2.8	1	.82
20	.34	-	-	-	-	-	-	8.3	10	2.7	.99	.77
21	.34	-	-	-	-	-	-	7.2	9.4	2.6	1	.72
22	.33	-	-	-	-	-	-	6.6	8.9	2.4	.96	.77
23	.37	-	-	-	-	-	-	6.9	8.6	2.3	.91	.74
24	.29	-	-	-	-	-	-	8	8.4	2.1	.93	.81
25	.25	-	-	-	-	-	-	9.3	8.2	2	1	.73
26	.24	-	-	-	-	-	-	10	7.8	2.3	1	.67
27	.28	-	-	-	-	-	-	11	7.5	2.2	.96	.67
28	.34	-	-	-	-	-	4	11	7.2	2	.86	.67
29	.29	-	-	-	---	-	4	12	7	2	.95	.73
30	.35	-	-	-	---	-	4.2	14	6.6	1.8	1.1	.74
31	.35	---	-	-	---	-	---	15	---	1.6	.99	---
TOTAL	10.18	1.46	-	-	-	-	12.2	203.5	345.5	109.7	35.3	24.91
MEAN	.33	.05	-	-	-	-	.41	6.6	11.5	3.5	1.14	.83
AC-FT	20	2.9	-	-	-	-	24	404	685	218	70	49
MAX	.42	.41	-	-	-	-	4.2	15	17	6.4	1.6	1
MIN	.23	-	-	-	-	-	-	2.8	6.6	1.6	.86	.67

WTR YR 2003 TOTAL 742.75 MEAN 2.03 MAX 17 MIN - AC-FT 1470

MAX DISCH: 17.3 CFS AT 20:00 ON Jun. 3, 2003 GH 1.05 FT. SHIFT 0 FT.
MAX GH: 1.05 FT. AT 20:00 ON Jun. 3, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

WIND RIVER BY-PASS NEAR ESTES PARK, CO.

LOCATION.--Lat 40°19'38", long 105°34'53"

DRAINAGE AREA.--N/A

GAGE.--Satellite Monitoring DCP in a metal shelter with a steel well and drop tape with a one foot cipoletti flume. A Data Collection Platform was the primary record. There is no graphic chart as backup. The DCP was installed in May, 2001.

REMARKS.--The record is hourly satellite data. It is complete and reliable except for the following days: November 4, 2002 thru April 28,2003: Closed for winter, June 5-9, 2003: Skim diversion interrupted. Total flow of Wind River put through by-pass. SE hung up and did not record peak. Record is only published for periods when Wind River water is being diverted into the CBT system above this gage. This occurred April 29-July 22 in WY 2003. The record is good. On August 29, 2003 the original 1 foot Cipolletti flume was replaced with a 3 foot Cipolletti flume to accommodate larger flows if needed during time of maintenance by the U.S.B.R. Station maintained and record developed by Merlin Friedrichsen

RATING TABLE.--WINBYPCO01 USED FROM 01-OCT-2002 TO 29-AUG-2003

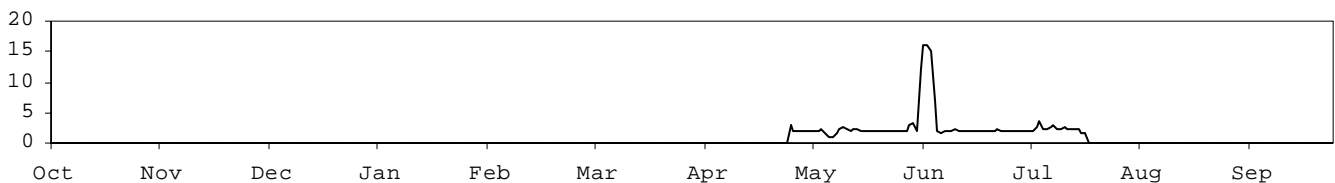
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-	-	-	-	-	-	-	2.1	2.1	1.9	-	-
2	-	-	-	-	-	-	-	2.1	2.9	1.9	-	-
3	-	-	-	-	-	-	-	2.1	3.2	2.1	-	-
4	-	-	-	-	-	-	-	2.1	2	2.1	-	-
5	-	-	-	-	-	-	-	2	12	2.1	-	-
6	-	-	-	-	-	-	-	2	16	2.1	-	-
7	-	-	-	-	-	-	-	2	16	2.1	-	-
8	-	-	-	-	-	-	-	2.3	15	2.5	-	-
9	-	-	-	-	-	-	-	1.6	7	3.6	-	-
10	-	-	-	-	-	-	-	1	2	2.4	-	-
11	-	-	-	-	-	-	-	1.1	1.7	2.3	-	-
12	-	-	-	-	-	-	-	1.8	1.9	2.6	-	-
13	-	-	-	-	-	-	-	2.3	2	2.9	-	-
14	-	-	-	-	-	-	-	2.7	2.1	2.4	-	-
15	-	-	-	-	-	-	-	2.4	2.2	2.3	-	-
16	-	-	-	-	-	-	-	2.1	2	2.7	-	-
17	-	-	-	-	-	-	-	2.2	1.9	2.3	-	-
18	-	-	-	-	-	-	-	2.2	2	2.2	-	-
19	-	-	-	-	-	-	-	2.1	2	2.2	-	-
20	-	-	-	-	-	-	-	2.1	2	2.2	-	-
21	-	-	-	-	-	-	-	2.1	1.9	1.6	-	-
22	-	-	-	-	-	-	-	2.1	1.9	1.6	-	-
23	-	-	-	-	-	-	-	2	2.1	-	-	-
24	-	-	-	-	-	-	-	2.1	2	-	-	-
25	-	-	-	-	-	-	-	2.1	1.9	-	-	-
26	-	-	-	-	-	-	-	2.1	2	-	-	-
27	-	-	-	-	-	-	-	2.1	2.2	-	-	-
28	-	-	-	-	-	-	-	2.1	2.1	-	-	-
29	-	-	-	-	---	-	2.8	2.1	2	-	-	-
30	-	-	-	-	---	-	2	2.1	2	-	-	-
31	-	---	-	-	---	-	---	2.1	---	-	-	---
TOTAL	-	-	-	-	-	-	4.8	63.3	118.1	50.1	-	-
MEAN	-	-	-	-	-	-	.16	2	3.9	1.62	-	-
AC-FT	-	-	-	-	-	-	9.5	126	234	99	-	-
MAX	-	-	-	-	-	-	2.8	2.7	16	3.6	-	-
MIN	-	-	-	-	-	-	-	1	1.7	-	-	-

WTR YR 2003 TOTAL 236.3 MEAN .65 MAX 16 MIN - AC-FT 469

MAX DISCH: 17 CFS AT 08:00 ON Jun. 5, 2003 GH: NOT RECORDED SHIFT N/A
MAX GH: NOT RECORDED

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06733000 BIG THOMPSON RIVER(above Lake Estes) AT ESTES PARK, CO

LOCATION.--Lat 40°22'42", long 105°30'48", in NW¼NW¼ sec. 30, T.5 N., R.72 W., Larimer County on right bank in Estes Park, 600 ft downstream from bridge on State Highways 7 and 66, 900 ft downstream from Black Canyon Creek, and 0.3 mi northwest of Estes Power Plant. Station is upstream from Lake Estes.

DRAINAGE AREA AND PERIOD OF RECORD.--137 mi². October 1946 to current year.

GAGE.--Water-stage recorder with satellite telemetry, at 15' Parshall flume with overflow weirs and supplemental outside gage. DCP is the primary record. Datum of gage is 7,492.5 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Primary record is hourly data taken from satellite monitoring with chart as backup. Record is complete and reliable except for the following periods: December 20-22, 2002--Inlets frozen; December 23, 2002 to March 21, 2003--Station was closed for winter. The data can be regarded as very reliable, as the gage is visited frequently and even 0.01 adjustments to the stage encoder are rare. However, regular visits by the U.S.B.R. personnel are often discounted as being unreliable due to inconsistencies in the procedures followed in reading the gage. Record is good, except for December 23--March 21, 2003 which was estimated for winter record. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--BTABESCO09 USED FROM 01-OCT-2002 TO 18-JUL-2003

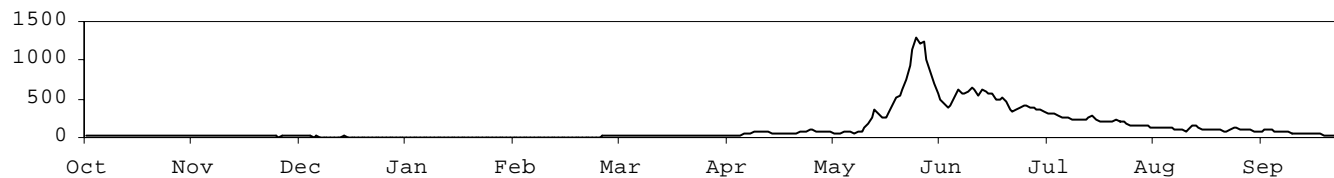
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	18	14	9.6	11	13	21	82	1250	408	153	106
2	30	24	13	9.7	11	14	31	71	997	388	149	91
3	34	19	13	9.8	11	14	35	66	846	388	144	93
4	31	20	13	9.9	11	14	27	74	698	369	155	102
5	31	18	13	10	11	15	24	68	572	350	145	85
6	28	19	9.9	10	11	15	22	62	495	330	131	81
7	28	19	13	10	12	16	20	60	436	305	126	85
8	29	19	12	11	12	16	19	63	380	301	126	97
9	28	20	12	11	12	17	26	66	405	308	127	97
10	26	17	12	11	12	17	40	70	508	284	119	93
11	24	17	12	10	12	18	48	66	621	267	120	89
12	22	16	12	10	12	18	56	64	581	260	117	81
13	20	20	12	10	12	18	65	74	578	259	108	76
14	21	18	12	10	12	19	80	84	586	242	102	73
15	19	16	13	10	12	19	81	125	639	242	96	65
16	19	14	12	10	12	20	72	172	612	237	89	59
17	18	17	12	10	12	20	66	271	552	241	101	55
18	18	15	11	10	12	21	64	362	613	241	148	60
19	17	15	8.6	10	12	21	56	313	602	255	161	58
20	17	16	8.6	10	12	21	49	255	558	272	120	54
21	16	15	8.6	10	12	22	48	249	564	241	101	49
22	16	15	8.6	10	12	22	51	311	503	218	93	47
23	17	15	8.7	10	12	22	56	410	504	213	92	43
24	20	13	8.7	10	12	21	55	512	511	202	94	40
25	19	13	8.8	11	12	18	56	548	472	200	101	37
26	18	11	8.9	11	12	20	66	618	368	212	97	34
27	19	14	9	11	12	16	81	739	348	241	87	33
28	18	15	9.2	11	13	16	90	930	375	203	83	32
29	19	16	9.3	11	---	16	106	1140	399	203	97	33
30	14	14	9.4	11	---	16	96	1290	414	187	123	33
31	19	---	9.5	11	---	17	---	1210	---	164	134	---
TOTAL	679	498	336.8	319	331	552	1607	10425	16987	8231	3639	1981
MEAN	22	17	10.9	10.3	12	18	54	336	566	266	117	66
AC-FT	1350	988	668	633	657	1090	3190	20680	33690	16330	7220	3930
MAX	34	24	14	11	13	22	106	1290	1250	408	161	106
MIN	14	11	8.6	9.6	11	13	19	60	348	164	83	32

WTR YR 2003 TOTAL 45585.8 MEAN 125 MAX 1290 MIN 8.6 AC-FT 90420

MAX DISCH: 1460 CFS AT 23:30 ON May. 29, 2003 GH 6.57 FT. SHIFT 0 FT.
MAX GH: 6.57 FT. AT 23:30 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



06734500 FISH CREEK NEAR ESTES PARK, CO

LOCATION.--Lat 40°22'06", long 105°29'35", SW¼ sec. 29, T.5 N., R.72 W.

DRAINAGE AREA AND PERIOD OF RECORD.--16.9 mi²; 1946 to present.

GAGE.--Graphic water-stage recorder and satellite monitoring in a concrete well and shelter at a 5' Parshall flume. The electric drop tape is the primary reference. There is a supplemental outside staff gage.

REMARKS.--The primary record is hourly data from satellite monitoring with chart back up. The record is complete and reliable except for the following periods: May 18-22, 2003--Log on control, -0.07 ft correction. November 4, 2002 to April 4, 2003 when the station was closed for the winter. The record is good, except for May 18-22, which is fair. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--FISHESCO06 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

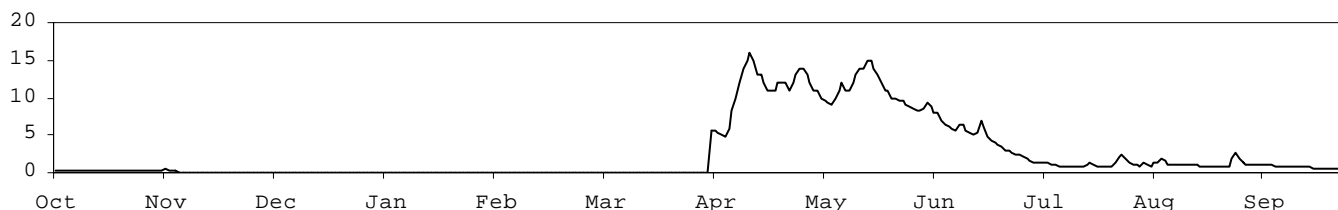
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.47	-	-	-	-	-	13	8.4	2.1	1.1	1.4
2	.33	.34	-	-	-	-	-	12	8.3	1.8	1	1.2
3	.23	.3	-	-	-	-	-	11	8.5	1.6	.9	1.1
4	.23	.3	-	-	-	-	5.5	11	9.4	1.4	1.3	1.1
5	.21	-	-	-	-	-	5.7	10	8.7	1.3	.95	.96
6	.18	-	-	-	-	-	5.4	9.7	8.1	1.3	.9	.97
7	.17	-	-	-	-	-	5	9.4	7.9	1.3	1.3	1
8	.17	-	-	-	-	-	4.8	9.1	6.9	1.3	1.3	1.1
9	.17	-	-	-	-	-	5.9	9.8	6.3	1	1.9	.98
1-	.17	-	-	-	-	-	8.2	11	6.2	1	1.5	.93
11	.17	-	-	-	-	-	10	12	6	.92	1.2	.85
12	.17	-	-	-	-	-	12	11	5.7	.93	1.2	.75
13	.17	-	-	-	-	-	14	11	6.5	.86	1.1	.77
14	.17	-	-	-	-	-	15	12	6.5	.82	1	.78
15	.17	-	-	-	-	-	16	13	5.5	.79	.97	.73
16	.17	-	-	-	-	-	15	14	5.3	.78	.94	.69
17	.17	-	-	-	-	-	13	14	5.2	.74	.97	.7
18	.17	-	-	-	-	-	13	15	5.3	.73	1.1	.78
19	.17	-	-	-	-	-	12	15	6.9	1.2	1	.75
2-	.17	-	-	-	-	-	11	14	6.2	1.3	.89	.69
21	.17	-	-	-	-	-	11	13	4.9	.98	.82	.65
22	.17	-	-	-	-	-	11	12	4.3	.88	.81	.6
23	.17	-	-	-	-	-	12	11	4	.77	.78	.57
24	.17	-	-	-	-	-	12	11	3.8	.81	.78	.52
25	.17	-	-	-	-	-	12	10	3.5	.85	.78	.52
26	.17	-	-	-	-	-	11	10	3	.78	.78	.52
27	.17	-	-	-	-	-	12	9.7	2.9	1.3	.8	.52
28	.17	-	-	-	-	-	13	9.7	2.7	2.2	.69	.52
29	.17	-	-	-	---	-	14	9.2	2.5	2.3	1.9	.52
3-	.21	-	-	-	---	-	14	8.8	2.4	1.8	2.8	.52
31	.22	---	-	-	---	-	---	8.5	---	1.3	2	---
TOTAL	5.75	1.41	-	-	-	-	293.5	349.9	171.8	37.14	35.46	23.69
MEAN	.19	.05	-	-	-	-	9.78	11.3	5.7	1.2	1.14	.79
AC-FT	11	2.8	-	-	-	-	582	694	341	74	70	47
MAX	.33	.47	-	-	-	-	16	15	9.4	2.3	2.8	1.4
MIN	.17	-	-	-	-	-	-	8.5	2.4	.73	.69	.52

WTR YR 2003 TOTAL 918.65 MEAN 2.52 MAX 16 MIN N/A AC-FT 1820

MAX DISCH: 18.4 CFS AT 20:00 ON Apr. 15, 2003 GH 0.95 FT. SHIFT 0 FT.

MAX GH: 0.95 FT. AT 20:00 ON Apr. 15, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06735500 BIG THOMPSON RIVER(below Lake Estes) NEAR ESTES PARK, CO

LOCATION.--Lat 40°22'35", long 105°29'06", in NE¼NE¼ sec. 29, T.5 N., R.72 W., Larimer County, Hydrologic Unit 10190006, on right bank 100 ft upstream from Dry Gulch, 600 ft downstream from Olympus Dam, and 2.0 mi east of Estes Park.

DRAINAGE AREA.--155 mi². Area at site used Jan. 29, 1934, to Mar. 21, 1951, 162 mi².

GAGE.--Graphic water-stage recorder and Satellite Monitoring DCP in a concrete shelter and well at a 15-foot Parshall Flume. Sutron 8210 DCP has a speech modem card and telephone access. There is a supplementary outside gage.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart backup. Record is complete and reliable. The record is good. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--BTBLESCO10 USED FROM 01-OCT-2002 TO 30-SEP-2003

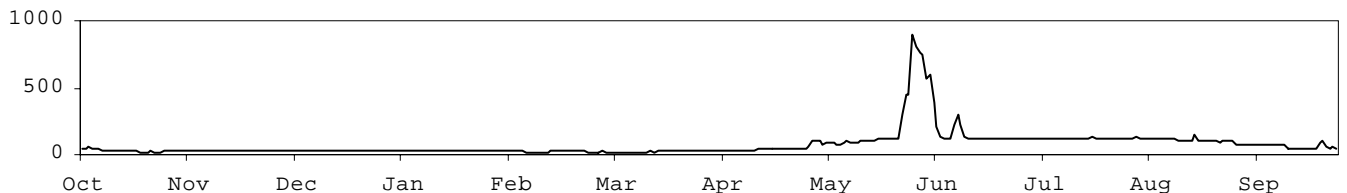
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	25	25	24	23	23	23	100	754	124	125	76
2	51	24	25	24	23	22	24	100	752	124	126	76
3	62	24	25	24	23	22	30	98	570	124	127	75
4	43	23	25	23	24	22	30	77	604	123	124	75
5	40	23	25	23	24	22	26	86	394	123	125	75
6	38	23	25	24	24	22	26	97	214	124	125	75
7	35	24	24	23	22	22	25	84	128	124	125	76
8	35	24	25	24	22	22	25	76	124	124	125	75
9	36	23	25	23	22	21	25	82	124	124	124	74
10	34	24	25	24	22	22	25	89	124	124	124	75
11	33	24	25	23	21	22	25	98	226	125	124	75
12	30	23	25	23	21	22	24	84	298	124	124	76
13	27	24	25	23	22	21	24	89	229	125	124	76
14	26	24	24	23	23	22	30	83	132	124	123	76
15	24	25	24	24	23	23	49	99	125	124	102	75
16	23	24	24	25	23	22	49	99	124	124	99	50
17	26	24	29	23	23	23	50	99	125	124	100	50
18	22	25	24	23	24	25	49	98	125	124	99	50
19	18	24	25	23	25	24	49	100	126	124	99	51
20	18	24	24	23	24	24	49	124	124	125	150	51
21	32	24	24	23	24	23	49	123	123	128	103	51
22	19	24	24	23	24	24	49	124	124	125	99	51
23	19	24	24	24	24	24	50	124	124	125	98	50
24	19	23	24	24	23	24	49	124	124	124	98	50
25	24	24	24	23	21	24	49	124	125	125	100	89
26	24	24	24	23	21	23	51	124	123	126	99	104
27	24	24	23	23	22	23	52	299	124	124	96	63
28	23	23	23	23	22	23	50	448	126	124	99	52
29	23	24	23	23	---	23	49	452	124	123	101	58
30	23	25	24	23	---	23	53	892	123	124	101	52
31	24	---	24	23	---	23	---	800	---	124	102	---
TOTAL	916	717	759	724	639	705	1158	5496	6662	3853	3490	2002
MEAN	30	24	25	23	23	23	39	177	222	124	113	67
AC-FT	1820	1420	1510	1440	1270	1400	2300	10900	13210	7640	6920	3970
MAX	62	25	29	25	25	25	53	892	754	128	150	104
MIN	18	23	23	23	21	21	23	76	123	123	96	50

WTR YR 2003 TOTAL 27121 MEAN 74.3 MAX 892 MIN 18 AC-FT 53790

MAX DISCH: 915 CFS AT 11:00 ON May. 30, 2003 GH 5.52 FT. SHIFT 0 FT.
MAX GH: 5.52 FT. AT 11:00 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06734900 OLYMPUS TUNNEL (ESTES FOOTHILLS CANAL) AT LAKE ESTES, CO

LOCATION.--Lat 40°22'30", long 105°29'13", in SE¼NW¼ sec. 29, T.5 N., R.72 W., Larimer County, Hydrologic Unit 10190006, at tunnel entrance at south end of Olympus Dam on Lake Estes, 1.9 mi east of Estes Park.

GAGE.--Graphic water-stage recorder with satellite monitoring DCP with shaft encoder in a concrete shelter with supplemental outside staff gage. The DCP is the primary record.

REMARKS.--Primary record is hourly data taken from satellite monitoring with graphic chart as back up. The record is complete and reliable except for: February 7-21-The metal tape for the shaft encoder slipped out of the bead of the wheel. This was computed without loss of accuracy by comparing the DCP data with the chart. The record is good. This station is operated in cooperation with the USBR for the Colorado--Big Thompson Project. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--OLYTUNCO05 USED FROM 01-OCT-2002 TO 30-SEP-2003

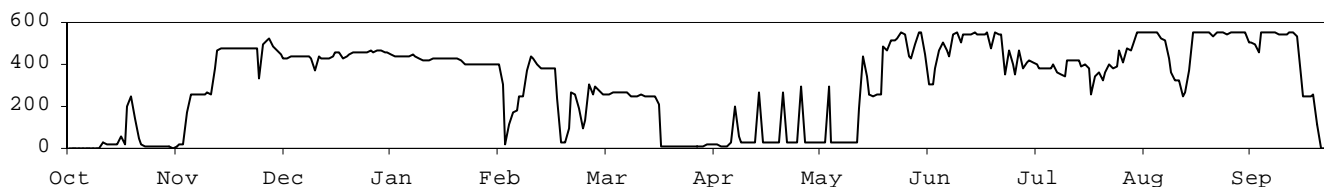
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	14	451	457	400	254	7	26	432	351	414	550
2	0	17	427	448	399	295	11	27	493	470	479	550
3	0	16	425	440	307	276	17	27	551	378	470	548
4	0	170	437	440	22	256	21	26	548	407	494	549
5	0	258	436	440	115	257	18	26	443	422	550	549
6	0	257	437	441	172	259	15	25	302	411	551	501
7	0	254	435	441	177	271	14	25	303	402	554	503
8	0	259	436	446	252	270	8.6	297	380	382	549	498
9	0	256	436	436	252	270	8.5	26	468	385	552	453
10	0	264	432	424	367	271	24	28	503	381	551	548
11	31	259	376	422	439	265	202	28	463	379	549	556
12	22	384	435	423	429	250	60	27	442	401	524	551
13	22	467	432	422	400	248	27	27	542	363	510	549
14	22	474	433	426	384	252	27	27	550	352	432	551
15	22	478	432	429	381	253	27	27	501	342	359	547
16	53	476	440	431	379	252	27	28	541	419	327	543
17	22	473	461	428	381	249	27	188	545	419	327	546
18	198	475	457	429	379	248	269	440	547	419	252	549
19	246	477	432	430	234	250	27	341	548	418	269	550
20	144	476	441	429	27	210	27	254	543	388	373	535
21	46	479	451	431	25	8.2	27	249	543	399	556	346
22	17	474	453	417	96	8	26	253	542	381	554	252
23	12	475	455	400	269	8.2	25	255	552	253	553	249
24	12	474	460	400	260	8.3	25	482	476	347	548	252
25	10	338	457	401	192	8.5	269	462	549	360	552	254
26	8.3	500	459	400	96	8.2	28	519	547	320	550	115
27	7.5	510	463	402	130	8	26	517	545	365	538	0
28	6.8	522	458	403	306	7.9	26	528	354	402	548	0
29	7.2	489	469	400	---	7.6	27	548	467	379	548	0
30	5.1	470	465	400	---	7.3	294	540	404	386	548	0
31	4.4	---	458	403	---	7.1	---	442	---	469	547	---
TOTAL	918.3	10935	13739	13139	7270	5243.3	1637.1	6715	14624	11950	15128	12194
MEAN	29.6	365	443	424	260	169	54.6	217	487	385	488	406
AC-FT	1820	21690	27250	26060	14420	10400	3250	13320	29010	23700	30010	24190
MAX	246	522	469	457	439	295	294	548	552	470	556	556
MIN	0	14	376	400	22	7.1	7	25	302	253	252	0

WTR YR 2003 TOTAL 113492.7 MEAN 311 MAX 556 MIN 0 AC-FT 225100

MAX DISCH: 579 CFS AT 12:15 ON Feb. 28, 2003 GH 8.01 FT. SHIFT 0 FT.
MAX GH: 8.01 FT. AT 12:15 ON Feb. 28, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06736000 NORTH FORK BIG THOMPSON RIVER AT DRAKE, CO

LOCATION.--Lat 40°20'45", long 105°26'30", NW¼ sec. 3, T.5 N., R.71 W., Larimer County, 400 ft upstream from mouth at Drake, Co. on U. S. Highway 34 to Estes Park, Co.

DRAINAGE AREA AND PERIOD OF RECORD.--85.1 mi²; 1947 to present.

GAGE.--Graphic water-stage recorder and DCP in a 42-inch well. The electric drop tape is the primary reference with a supplemental outside wire weight as backup. An outside wire weight staff was added on April 26, 2002.

REMARKS.--The primary record is hourly satellite data with chart backup. The record is complete and reliable except for the following periods: December 9, 2002 through March 26, 2003 when the station was closed for winter. May 28; June 10-12--when inlets were totally plugged. Ponds in the channel upstream often ice up and break loose in the fall and cause bumps in the record when there is no ice at the control. The record is good, except for following periods: These periods were estimated and rated Poor: December 9, 2002 through March 26, 2003 when the station was closed for winter. May 28; June 10-12--when inlets were totally plugged. This period is rated Fair: May 18-27, when the inlets were only partially plugged. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--BTNFDRCO11 USED FROM 01-OCT-2002 TO 02-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

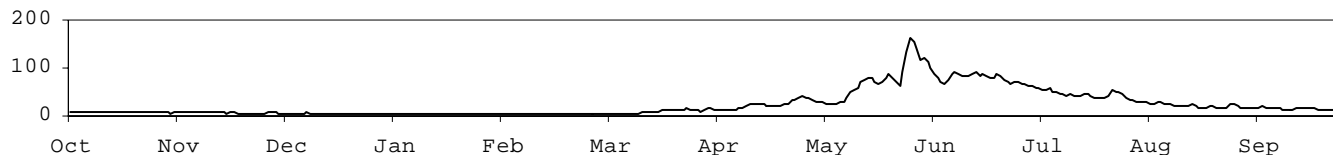
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	7.2	6.2	4	4	4	11	36	143	68	34	20
2	9.2	9.1	6	4	4	4	15	33	117	65	32	17
3	9.2	9	6	4	4	4	16	31	120	64	30	16
4	8.8	9	6.2	4	4	4	14	31	111	61	31	16
5	8.3	8.4	6	4	4	5	13	28	100	59	30	15
6	7.9	7.3	6	4.5	4	5	12	26	86	57	29	15
7	7.8	8	5.4	4.7	3	5	11	26	80	54	27	16
8	7.8	7.1	6.3	4.7	3	5	11	25	71	53	27	21
9	7.5	7.4	6	4	3	5	11	26	66	58	28	17
10	7.4	6.5	6	4	3	6	14	30	75	51	28	16
11	7.1	7	5.7	4	3	6	16	31	88	48	25	15
12	7.2	8	5.5	4	3	6	18	38	91	46	25	15
13	6.8	8.4	5.2	4	3	6	21	49	87	46	24	15
14	8	6.6	5	4	3	7	25	54	85	43	22	14
15	7.4	6	5	4	3	8	25	60	83	44	21	13
16	8.2	8.2	5	4	3	9	24	70	82	42	21	13
17	7.4	6.6	5	4	3	9	25	73	87	42	21	13
18	7.7	5.9	4	4	3	10	23	78	93	43	22	15
19	6.9	5.8	4	4	3	10	21	78	85	44	23	15
20	7.4	5.7	4	4	3	11	19	69	87	44	20	15
21	7.5	5.8	3	4	3	11	19	66	85	41	18	15
22	7.9	5.7	3	4	3	12	19	71	79	39	17	15
23	7.4	5.7	3	3.7	3	12	22	78	80	39	18	15
24	9.3	4.8	2.7	3.7	3	13	23	88	86	36	19	14
25	8	6	3	3.7	3	13	24	78	85	36	19	14
26	7.9	5.2	3	4	3	14	32	69	73	40	18	13
27	9	6.9	3	4	3	15	35	62	69	54	17	13
28	7.3	7.6	3	4	3	13	39	92	68	50	17	13
29	7.9	6.5	3	4	---	14	41	134	70	48	17	13
30	4.9	6.1	3	4	---	13	39	164	70	46	25	14
31	6.7	---	3	4	---	10	---	154	---	38	23	---
TOTAL	238.5	207.5	141.2	125	90	269	638	1948	2602	1499	728	451
MEAN	7.7	6.9	4.6	4	3.2	8.7	21	63	87	48	24	15
AC-FT	473	412	280	248	179	534	1270	3860	5160	2970	1440	895
MAX	9.3	9.1	6.3	4.7	4	15	41	164	143	68	34	21
MIN	4.9	4.8	2.7	3.7	3	4	11	25	66	36	17	13

WTR YR 2003 TOTAL 8937.2 MEAN 24.5 MAX 164 MIN 2.7 AC-FT 17730

MAX DISCH: 196 CFS AT 02:15 ON May. 30, 2003 GH 4.65 FT. SHIFT 0 FT.

MAX GH: 4.65 FT. AT 02:15 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

DILLE TUNNEL (EAST PORTAL) NEAR DRAKE, CO

LOCATION.--Lat 40°25'10", long 105°14'45", NW¼NW¼ sec. 9, T.5 N., R.70 W., Larimer County. Diverts water from Big Thompson River and Transmountain diversions from Colorado River basin to Hansen Feeder Canal.

GAGE.--A-35 Stevens graphic recorder and 8004 Data Collection Platform (DCP) in a concrete shelter and well. The station is maintained by Northern Colorado Water Conservancy District personnel.

REMARKS.--The primary record is hourly DCP data with chart back-up. Chart record is checked daily when tunnel is in operation by Northern Colorado Water Conservancy District personnel. The record is complete and reliable. Record is good. The tunnel is used to divert water for power generation at the canyon mouth. Flow at station is intermittent dependent on river flows, water orders, and other regulations. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--DILTUNCO03 USED FROM 01-OCT-2002 TO 30-SEP-2003

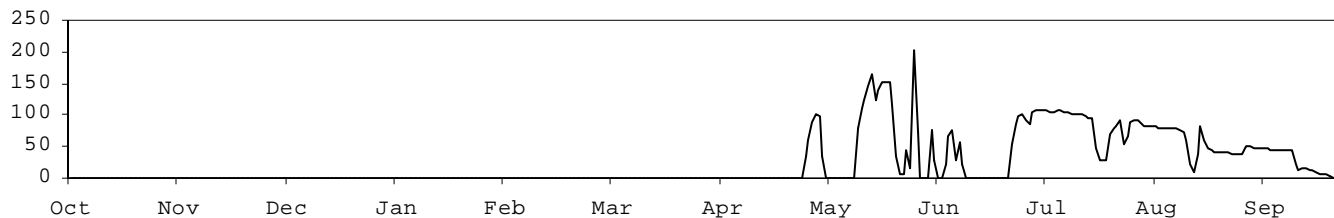
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	90	.01	91	91	37
2	0	0	0	0	0	0	0	100	.01	87	91	51
3	0	0	0	0	0	0	0	99	0	103	86	50
4	0	0	0	0	0	0	0	34	75	109	82	48
5	0	0	0	0	0	0	0	.17	29	109	82	47
6	0	0	0	0	0	0	0	.11	.06	109	82	46
7	0	0	0	0	0	0	0	.11	.06	109	82	47
8	0	0	0	0	0	0	0	.09	22	106	80	46
9	0	0	0	0	0	0	0	.06	65	105	80	44
10	0	0	0	0	0	0	0	.06	77	109	80	44
11	0	0	0	0	0	0	0	.06	29	107	79	44
12	0	0	0	0	0	0	0	.06	58	106	79	44
13	0	0	0	0	0	0	0	1.2	21	103	79	44
14	0	0	0	0	0	0	0	79	.26	101	77	43
15	0	0	0	0	0	0	0	110	.24	102	74	43
16	0	0	0	0	0	0	0	124	.18	102	61	21
17	0	0	0	0	0	0	0	146	.09	102	23	14
18	0	0	0	0	0	0	0	163	.03	97	11	15
19	0	0	0	0	0	0	0	124	.03	95	37	15
20	0	0	0	0	0	0	0	140	.03	95	82	14
21	0	0	0	0	0	0	.08	151	.03	47	59	14
22	0	0	0	0	0	0	.11	152	.03	30	46	9
23	0	0	0	0	0	0	.09	151	.03	30	44	6.6
24	0	0	0	0	0	0	.06	118	.03	30	42	6.6
25	0	0	0	0	0	0	.06	34	.03	69	42	6.5
26	0	0	0	0	0	0	.06	7.2	.03	78	42	2.1
27	0	0	0	0	0	0	.06	6.1	54	83	42	0
28	0	0	0	0	0	0	.06	45	85	92	42	0
29	0	0	0	0	---	0	35	16	98	54	39	0
30	0	0	0	0	---	0	60	201	101	66	37	0
31	0	---	0	0	---	0	---	72	---	89	37	---
TOTAL	0	0	0	0	0	0	95.58	2164.22	715.18	2715	1910	801.8
MEAN	0	0	0	0	0	0	3.19	69.8	23.8	88	62	26.7
AC-FT	0	0	0	0	0	0	190	4290	1420	5390	3790	1590
MAX	0	0	0	0	0	0	60	201	101	109	91	51
MIN	0	0	0	0	0	0	0	.06	0	30	11	0

WTR YR 2003 TOTAL 8401.78 MEAN 23 MAX 201 MIN 0 AC-FT 16660

MAX DISCH: 281 CFS AT 07:00 ON May. 30, 2003 GH 3.87 FT. SHIFT 0 FT.
MAX GH: 3.87 FT. AT 07:00 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06738000 BIG THOMPSON RIVER AT MOUTH OF CANYON, NEAR DRAKE, CO

LOCATION.--Lat 40°25'18", long 105°13'34", in SW¼SW¼ sec. 3, T,5 N., R.70 W., Larimer County, Hydrologic Unit 10190006, on right bank at mouth of canyon, 400 ft upstream from Handy Ditch diversion dam, and 6.0 mi east of Drake.

DRAINAGE AREA AND PERIOD OF RECORD.--305 mi²; 1927-1933, 1938 to present.

GAGE.--Water-stage recorder with satellite telemetry and shaft encoder activated by manometer in a concrete shelter with outside wire weight for reference. A bank-operated cableway was added in 1997 for intermediate flow measurements. This year an accububbler was used briefly as a temporary replacement for the manometer.

REMARKS.--The primary record is hourly data, taken from satellite monitoring with chart back-up. Sharp changes in the record occur due to diversions through Dille Tunnel (about 1 mile upstream), releases from Lake Estes, and draining/filling of the pond for the City of Loveland power plant. The record is good due to frequency of measurements & visits and the presence of an artificial control, except for the following periods which were estimated: November 6, 2002 to March 21, 2003, when station was closed for winter; May 27, 28, 30, when manometer malfunctioned. Record developed and station maintained by Merlin Friedrichsen.

RATING TABLE.--BTCANYCO15 USED FROM 01-OCT-2002 TO 03-OCT-2003

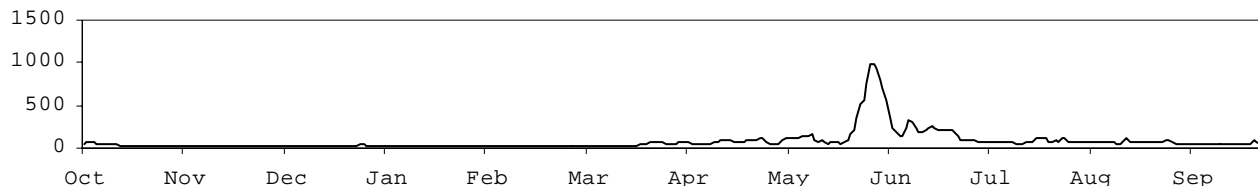
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	28	31	28	27	27	53	54	984	95	68	66
2	59	35	31	28	27	26	63	52	947	96	66	41
3	68	35	31	28	27	26	71	48	788	79	66	39
4	60	33	31	27	28	26	68	87	696	73	70	42
5	49	33	31	27	28	27	61	117	564	70	69	40
6	47	32	31	29	28	27	58	125	361	69	68	40
7	44	31	30	28	25	27	54	117	245	67	67	42
8	41	31	32	29	25	27	51	108	187	67	68	45
9	41	30	31	27	25	26	51	109	138	70	70	42
10	39	30	31	28	25	28	53	134	131	62	69	41
11	37	31	31	27	24	28	55	140	245	62	64	41
12	35	30	31	27	24	28	56	152	338	62	64	40
13	33	32	30	27	25	27	60	168	311	63	62	40
14	32	30	29	27	26	29	67	95	235	61	62	40
15	31	31	29	28	26	31	85	77	198	58	53	40
16	26	32	29	29	26	31	91	94	196	57	53	43
17	29	30	29	27	26	32	88	63	216	55	88	43
18	28	30	28	27	27	35	86	46	234	62	106	43
19	24	29	29	27	28	34	82	76	248	63	79	42
20	24	29	28	27	27	35	81	69	224	66	68	42
21	24	29	27	27	27	37	77	59	215	109	70	42
22	32	30	27	27	27	39	77	56	201	120	65	46
23	28	30	27	28	27	51	85	59	202	118	67	47
24	23	28	27	28	26	71	89	97	206	115	70	46
25	26	30	37	27	24	62	92	171	206	82	72	58
26	29	29	37	27	24	62	100	201	191	75	70	98
27	30	31	26	27	25	74	113	356	135	101	70	78
28	31	30	26	27	25	60	112	514	103	80	67	58
29	28	31	26	27	---	51	79	567	93	128	76	58
30	29	31	27	27	---	49	55	744	88	110	94	59
31	26	---	27	27	---	48	---	994	---	72	85	---
TOTAL	1101	921	917	851	729	1181	2213	5749	9126	2467	2186	1442
MEAN	36	31	30	28	26	38	74	185	304	80	71	48
AC-FT	2180	1830	1820	1690	1450	2340	4390	11400	18100	4890	4340	2860
MAX	68	35	37	29	28	74	113	994	984	128	106	98
MIN	23	28	26	27	24	26	51	46	88	55	53	39

WTR YR 2003 TOTAL 28883 MEAN 79.1 MAX 994 MIN 23 AC-FT 57290

MAX DISCH: 1190 CFS AT 09:00 ON May. 31, 2003 GH 4.45 FT. SHIFT -0.04 FT.
MAX GH: 4.45 FT. AT 09:00 ON May. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN
BUCKHORN CREEK NEAR MASONVILLE, CO

LOCATION.--Lat 40°26'04", long 105°10'47"

DRAINAGE AREA.--

GAGE.--A-35 Stevens recorder and Data Collection Platform (DCP) with shaft encoder in a wooden shelter with inside electric tape. A High Data Rate DCP was installed during the 2003 water year to replace the old 8004 model. The DCP is the primary record with the graphic chart recorder as back up.

REMARKS.--The primary record is hourly date from satellite monitoring with chart back up. Daily maximum and minimum stages for the satellite record checked to within +0.02 with the chart. The record is complete and reliable. Shaft encoder corrections of up to 0.02 ft. were entered in Records program and prorated hourly by time. Also from October 17 to November 4, 2002 a -0.08 ft. correction was applied because a log was on the control affecting the gage-height. The record is good. Station maintained and record developed by Shera Sumerford.

RATING TABLE.--BUCRMVCO07 USED FROM 01-OCT-2002 TO 03-MAR-2003
 BUCRMVSH1 USED FROM 03-MAR-2003 TO 19-JUN-2003
 BECRMVSH2 USED FROM 19-JUN-2003 TO 01-SEP-2003
 BUCRMVCO07 USED FROM 01-SEP-2003 TO 15-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

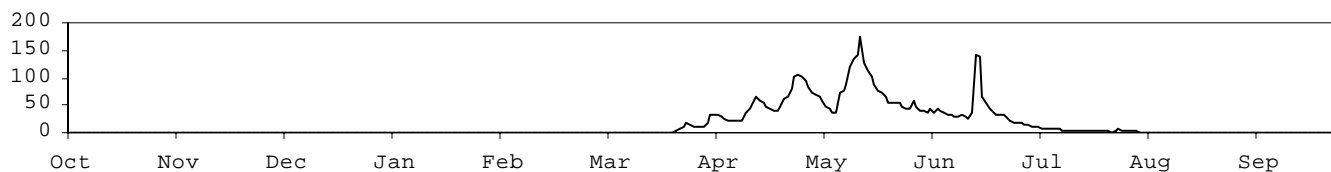
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	1.2	1.1	.98	.98	.83	12	84	47	17	2.8	.88
2	1	1.3	.98	.98	.98	.83	20	74	41	16	2.6	.77
3	1.2	1.2	.98	.98	.98	.83	31	69	39	13	2.3	.81
4	1.1	1.1	.96	.98	.98	.83	32	65	38	12	1.5	.81
5	1.1	1.2	.83	.98	.98	.83	31	59	43	11	1.2	.69
6	.99	1.2	.83	.98	.98	.83	28	47	38	9.7	1.1	.69
7	.98	1.1	.83	.98	.98	.83	25	44	43	9	1	.78
8	.94	1.1	.83	.98	.98	.83	23	37	40	8.9	.98	.56
9	.97	1.1	.83	.98	.98	.83	23	37	36	8.2	1	.84
10	.91	1.1	.83	.98	.98	.83	23	73	34	8.6	.98	.83
11	.89	1.1	.83	.98	.98	.83	21	76	32	7.3	.94	.9
12	.91	1.1	.83	.98	.98	.83	21	88	30	6.5	.92	.88
13	.98	1.1	.83	1.1	.98	.83	35	119	28	5.2	.88	.72
14	.98	1.1	.83	1.1	.94	.83	45	136	33	5.3	.77	.75
15	.98	1.1	.83	1.1	.88	.83	51	141	29	5.1	.74	.67
16	1	1.1	.83	1.1	.83	.83	66	174	24	4.4	.8	.56
17	1.1	1.1	.83	1.1	.83	.83	60	128	35	4	.82	.51
18	.81	1.1	.83	1.1	.83	.92	54	114	143	3.6	.86	.56
19	.69	1.1	.83	1.1	.83	.85	47	100	140	3.4	.91	.53
20	.65	1.1	.83	.98	.84	.83	42	89	64	3.1	.84	.51
21	.71	1.1	.83	.98	.83	.83	40	78	55	3.2	.81	.53
22	.83	1.1	.83	.98	.83	.83	40	71	45	2.8	.79	.51
23	.96	1.1	.83	.98	.83	.83	46	65	37	2.3	.82	.49
24	.98	1.1	.83	.98	.83	2.6	62	56	33	2.4	.82	.49
25	.92	1.1	.83	.98	.83	7.8	67	55	33	2.1	.62	.49
26	.98	1.1	.83	.98	.83	9.8	80	55	31	2	.56	.47
27	.97	1.1	.83	.98	.83	18	103	53	26	1.8	.51	.49
28	1	1.1	.83	.98	.83	15	106	48	22	2.5	.51	.49
29	1.3	1.1	.83	.98	---	12	103	45	17	7.9	.65	.53
30	1.3	1.1	.91	.98	---	10	96	43	18	5	1.3	.53
31	1.1	---	.98	.98	---	9.7	---	58	---	3.6	1.1	---
TOTAL	30.06	33.6	26.66	31.22	25.36	104.1	1433	2381	1274	196.9	32.43	19.27
MEAN	.97	1.1	.86	1.01	.91	3.36	48	77	43	6.4	1.05	.64
AC-FT	60	67	53	62	50	206	2840	4720	2530	391	64	38
MAX	1.3	1.3	1.1	1.1	.98	18	106	174	143	17	2.8	.9
MIN	.65	1.1	.83	.98	.83	.83	12	37	17	1.8	.51	.47

WTR YR 2003 TOTAL 5587.6 MEAN 15.3 MAX 174 MIN .47 AC-FT 11080

MAX DISCH: 393 CFS AT 01:00 ON Jun. 19, 2003 GH 7.36 FT. SHIFT -0.19 FT.

MAX GH: 7.36 FT. AT 01:00 ON Jun. 19, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

CHARLES HANSEN FEEDER CANAL BELOW BIG THOMPSON SIPHON NEAR DRAKE, CO

LOCATION.--Lat 40°25'20", long 105°13'33", SW¼SW¼ sec. 3, T.5 N., T.70 W., Larimer County.

GAGE.--Graphic chart recorder and 8210 DCP with shaft encoder in a precast concrete shelter. The station is maintained by Northern Colorado Water Conservancy District personnel.

REMARKS.--The primary record is hourly DCP data with the chart record as back-up. The record is complete and reliable. The below listed days were used to supplement the DCP. April 26 to May 20--Shaft encoder data was bad, used the graphic chart for data. The record is good, except for flows above 200 cfs, including the Peak flow, which are Fair due possible inaccuracy in the current rating table. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--HFCBBSCO16 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

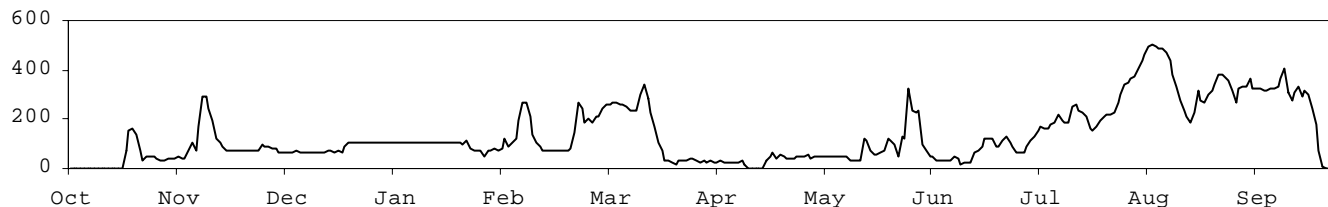
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	48	68	104	76	212	29	58	224	62	347	268
2	0	41	68	104	79	212	28	44	232	62	361	321
3	0	38	67	104	120	243	29	46	101	93	369	335
4	0	69	67	104	88	262	26	49	75	111	407	334
5	0	106	69	103	103	262	28	49	47	129	438	365
6	0	76	68	105	120	264	29	49	46	153	460	324
7	0	172	68	104	197	264	28	46	36	172	495	328
8	0	291	67	105	267	260	28	46	32	161	502	326
9	0	295	67	104	267	259	28	46	35	162	495	319
10	0	241	67	104	213	251	27	47	35	177	483	313
11	0	192	68	104	135	237	27	46	29	189	483	324
12	0	125	68	104	105	236	29	46	47	220	471	321
13	0	105	68	104	91	236	18	36	37	197	441	329
14	0	92	69	104	69	296	2.9	36	20	184	383	364
15	0	76	69	104	70	340	2.8	36	25	190	332	402
16	0	71	68	104	70	287	2.7	36	25	248	277	308
17	70	71	69	104	72	229	2.8	119	22	258	234	277
18	157	70	67	104	70	170	2.7	116	61	237	208	309
19	166	71	93	104	71	106	33	73	74	223	183	336
20	136	71	106	104	69	69	49	54	93	212	227	292
21	74	70	105	105	70	36	63	53	125	163	315	318
22	32	69	104	100	78	34	43	61	120	155	272	296
23	51	70	104	111	150	23	57	74	122	173	268	246
24	49	75	105	78	268	18	49	125	92	197	298	178
25	45	94	104	69	246	33	44	117	91	212	315	74
26	40	91	104	70	187	35	43	96	112	219	339	5.7
27	35	90	104	69	200	31	43	46	132	216	381	0
28	35	83	103	50	183	43	46	130	105	230	380	0
29	42	81	104	76	---	43	48	122	88	268	373	0
30	41	68	104	77	---	29	51	323	66	302	356	0
31	41	---	103	81	---	28	---	239	---	337	315	---
TOTAL	1014	3112	2565	2967	3734	5048	936.9	2464	2349	5912	11208	7612.7
MEAN	32.7	104	83	96	133	163	31.2	80	78	191	362	254
AC-FT	2010	6170	5090	5890	7410	10010	1860	4890	4660	11730	22230	15100
MAX	166	295	106	111	268	340	63	323	232	337	502	402
MIN	0	38	67	50	69	18	2.7	36	20	62	183	0

WTR YR 2003 TOTAL 48922.6 MEAN 134 MAX 502 MIN 0 AC-FT 97040

MAX DISCH: 515 CFS AT 12:30 ON Aug. 8, 2003 GH 6.27 FT. SHIFT 0 FT.

MAX GH: 6.27 FT. AT 12:30 ON Aug. 8, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06738100 CHARLES HANSEN FEEDER CANAL WASTEWAY TO BIG THOMPSON NEAR DRAKE, CO

LOCATION.--Lat 40°25'11", long 105°13'30", NE¼NW¼ sec. 10, T.5 N., R.70 W., Larimer County.

GAGE.--Graphic water-stage recorder with satellite telemetry in concrete shelter with supplemental outside staff gage at 15' Parshall flume. Station maintained by N.C.W.C.D.

REMARKS.--The primary record is hourly DCP data with the graphic chart as backup. The record is complete and reliable except for October 22 and 23 which were missing a total of 14 hours with no dcp data or chart. These hours occurred during constant flow and were estimated with no loss in accuracy. Record is good. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--HFCWASCO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

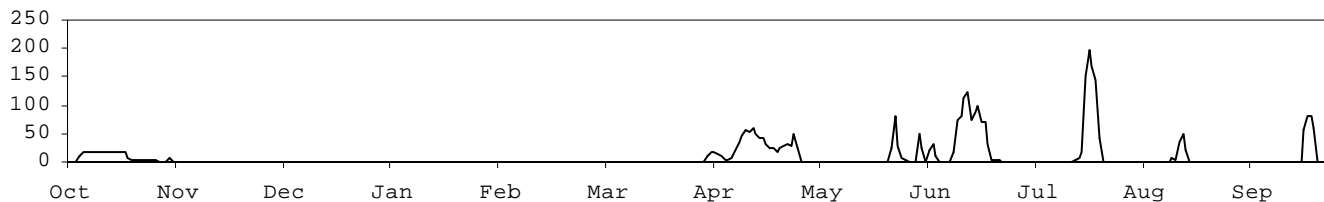
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	9.6	0	51	0	0	0
4	11	0	0	0	0	0	17	0	23	0	0	0
5	19	0	0	0	0	0	16	0	0	0	0	0
6	18	0	0	0	0	0	13	0	20	0	0	0
7	17	0	0	0	0	0	12	0	31	0	0	0
8	16	0	0	0	0	0	5	0	9.5	0	0	0
9	16	0	0	0	0	0	3.9	0	0	0	0	0
10	17	0	0	0	0	0	6.7	0	0	0	0	0
11	17	0	0	0	0	0	21	0	0	0	0	0
12	16	0	0	0	0	0	36	0	0	0	0	0
13	16	0	0	0	0	0	47	0	17	0	0	0
14	16	0	0	0	0	0	55	0	74	0	0	0
15	17	0	0	0	0	0	53	0	80	0	8.8	0
16	16	0	0	0	0	0	60	0	112	0	4.3	0
17	16	0	0	0	0	0	50	0	125	0	35	0
18	7.8	0	0	0	0	0	43	0	74	4.8	49	0
19	4.4	0	0	0	0	0	44	0	88	6.4	22	0
20	4.4	0	0	0	0	0	30	0	98	17	0	0
21	4.4	0	0	0	0	0	25	0	71	152	0	0
22	4.4	0	0	0	0	0	23	0	71	197	0	55
23	4.4	0	0	0	0	0	19	0	31	168	0	81
24	4.4	0	0	0	0	0	25	0	3.5	146	0	81
25	4.4	0	0	0	0	0	28	0	4.4	42	0	60
26	2	0	0	0	0	0	30	24	1.9	0	0	.16
27	1.1	0	0	0	0	0	27	80	0	0	0	0
28	.79	0	0	0	0	0	49	29	0	0	0	0
29	.34	0	0	0	---	0	24	8.3	0	0	0	0
30	6.7	0	0	0	---	0	0	3.5	0	0	0	0
31	1.2	---	0	0	---	0	---	0	---	0	0	---
TOTAL	278.73	0	0	0	0	0	772.2	144.8	985.3	733.2	119.1	277.16
MEAN	8.99	0	0	0	0	0	25.7	4.67	32.8	23.7	3.84	9.24
AC-FT	553	0	0	0	0	0	1530	287	1950	1450	236	550
MAX	19	0	0	0	0	0	60	80	125	197	49	81
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 2003 TOTAL 3310.49 MEAN 9.07 MAX 197 MIN 0 AC-FT 6570

MAX DISCH: 214 CFS AT 07:30 ON Jul. 21, 2003 GH 2.27 FT. SHIFT 0 FT. Datum Correction -0.02
MAX GH: 2.25 FT. (Corrected) AT 07:30 ON Jul. 21, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06738100 CHARLES HANSEN FEEDER CANAL POWER PLANT TO BIG THOMPSON RIVER
NEAR DRAKE, CO

LOCATION.--Lat 40°25'15", long 105°13'30", NE¼NW¼ sec. 10, T.5 N., R.70 W., Larimer County.

GAGE.--Graphic water-stage recorder and 8210 Data Collection Platform(DCP) connected to a flow meter directly connected to the power turbine. The station is maintained by the U.S.B.R. personnel.

REMARKS.--The primary record is hourly discharge data collected by the DCP with graphic chart as a backup. The record is complete and reliable except for: May 20, 21, 2003--Flow meter not working; June 7-9 2003--Flow meter not working. Record is good except for May 20, 21; and June 7-9, 2003 which are estimated and poor. The flow at station is intermittent dependent on available river flows, water orders and other regulations. Record developed by Merlin Friedrichsen.

RATING TABLE.--STCONVERT USED FROM 01-OCT-2002 TO 30-SEP-2003

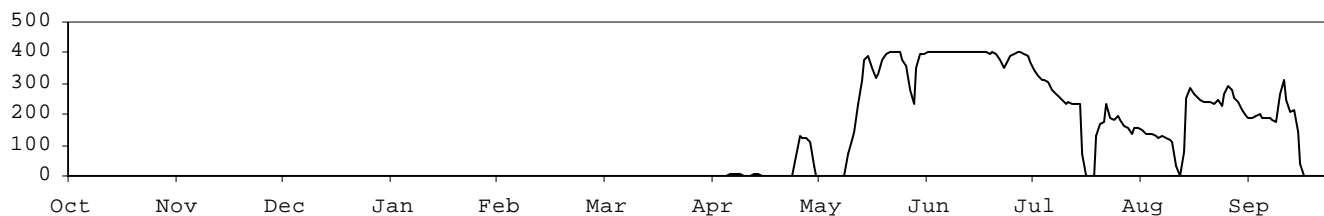
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	123	278	398	179	292
2	0	0	0	0	0	0	0	125	236	400	165	278
3	0	0	0	0	0	0	0	108	348	400	153	253
4	0	0	0	0	0	0	0	31	394	397	139	243
5	0	0	0	0	0	0	0	1.5	394	389	153	212
6	0	0	0	0	0	0	0	1.6	400	370	158	195
7	0	0	0	0	0	0	0	1.6	400	346	150	188
8	0	0	0	0	0	0	0	1.5	400	326	136	188
9	0	0	0	0	0	0	1.6	1.7	400	309	138	193
10	0	0	0	0	0	0	3.5	1.6	404	314	136	200
11	0	0	0	0	0	0	3.4	1.8	404	305	129	191
12	0	0	0	0	0	0	3.3	1.7	403	281	126	191
13	0	0	0	0	0	0	3.3	1.6	404	263	129	190
14	0	0	0	0	0	0	3.2	74	404	259	123	183
15	0	0	0	0	0	0	3.2	114	404	248	117	176
16	0	0	0	0	0	0	3.2	144	404	237	108	269
17	0	0	0	0	0	0	3.3	232	404	239	34	311
18	0	0	0	0	0	0	3.4	311	404	231	2.7	244
19	0	0	0	0	0	0	3.1	374	404	234	75	207
20	0	0	0	0	0	0	3.2	390	403	237	251	214
21	0	0	0	0	0	0	3	352	402	73	286	146
22	0	0	0	0	0	0	3.1	321	400	2.2	266	39
23	0	0	0	0	0	0	3	330	400	2.6	258	2.8
24	0	0	0	0	0	0	3.1	375	399	2.7	249	2.8
25	0	0	0	0	0	0	3.1	395	400	130	241	2.3
26	0	0	0	0	0	0	3.1	402	396	170	243	.17
27	0	0	0	0	0	0	3	401	379	176	243	0
28	0	0	0	0	0	0	3	402	352	232	235	0
29	0	0	0	0	---	0	66	402	364	187	245	0
30	0	0	0	0	---	0	132	376	389	179	230	0
31	0	---	0	0	---	0	---	354	---	194	264	---
TOTAL	0	0	0	0	0	0	260.1	6150.6	11573	7531.5	5361.7	4611.07
MEAN	0	0	0	0	0	0	8.67	198	386	243	173	154
AC-FT	0	0	0	0	0	0	516	12200	22960	14940	10630	9150
MAX	0	0	0	0	0	0	132	402	404	400	286	311
MIN	0	0	0	0	0	0	0	1.5	236	2.2	2.7	0

WTR YR 2003 TOTAL 35487.97 MEAN 97.2 MAX 404 MIN 0 AC-FT 70390

MAX DISCH: 412 CFS AT 13:45 ON May. 21, 2003 GH 412 FT. SHIFT 0 FT.
MAX GH: 412 FT. AT 13:45 ON May. 21, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

BOULDER CREEK FEEDER CANAL NEAR LYONS, CO

LOCATION.--Lat 40°12'58", long 105°15'28", NE¼NW¼ sec. 20, T.3 N., R.70 W., Boulder County.

DRAINAGE AREA.--N/A

GAGE.-- A-35 Stevens recorder in a 36-inch galvanized shelter with supplemental outside staff gage. A data collection platform (DCP) was installed in 1997 and is connected to the gage remotely approximately 100 yards west in a concrete 6 by 8-foot building. The station is maintained by NCWCD personnel.

REMARKS.--The primary record is the A-35 Stevens Chart record. The record is good. Water was run October 1 thru October 31, 2002 and April 7 to September 30, 2003. This record will soon become part of Colorado Division of Water Rescues Water District 5 Diversion Data. At that time it will no longer be published as part of Colorado Streamflow Data. The record is complete and reliable. Record developed by Lee Cunning.

RATING TABLE.--STDPF1OFT01 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

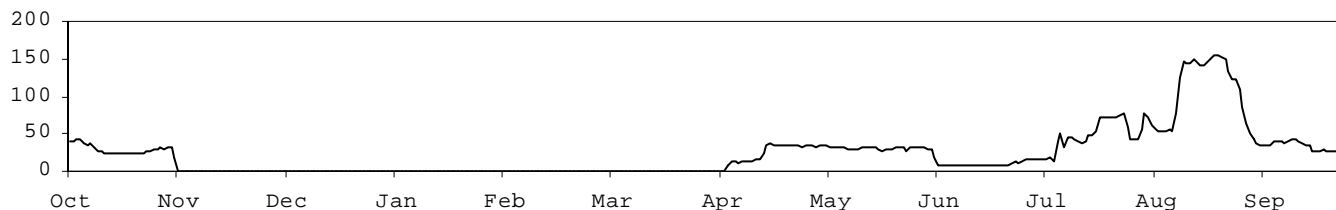
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	0	0	0	0	0	0	34	31	16	42	86
2	41	0	0	0	0	0	0	33	31	16	42	65
3	42	0	0	0	0	0	0	34	30	16	56	50
4	42	0	0	0	0	0	0	36	30	15	77	43
5	37	0	0	0	0	0	0	35	18	16	71	37
6	36	0	0	0	0	0	0	32	7.9	16	61	35
7	38	0	0	0	0	0	9	31	7.9	16	55	35
8	31	0	0	0	0	0	14	32	7.5	19	53	36
9	27	0	0	0	0	0	13	32	7.9	13	53	36
10	27	0	0	0	0	0	12	32	7.2	40	53	40
11	25	0	0	0	0	0	13	29	7.5	51	55	40
12	24	0	0	0	0	0	14	29	7.5	33	54	40
13	25	0	0	0	0	0	13	29	7.9	46	77	38
14	25	0	0	0	0	0	14	30	7.2	46	126	39
15	25	0	0	0	0	0	15	32	8.2	44	146	44
16	25	0	0	0	0	0	15	31	6.8	40	143	43
17	25	0	0	0	0	0	24	31	7.2	37	143	40
18	24	0	0	0	0	0	36	31	8.2	39	149	37
19	24	0	0	0	0	0	37	31	6.8	48	144	36
20	24	0	0	0	0	0	34	29	7.5	48	141	34
21	24	0	0	0	0	0	34	28	8.2	54	141	28
22	25	0	0	0	0	0	35	29	8.6	73	148	28
23	26	0	0	0	0	0	36	30	8.9	72	153	28
24	26	0	0	0	0	0	36	30	7.9	72	155	29
25	29	0	0	0	0	0	36	31	6.8	72	154	27
26	30	0	0	0	0	0	36	31	6.8	71	152	26
27	32	0	0	0	0	0	34	31	9.7	72	149	27
28	30	0	0	0	0	0	33	28	13	76	134	28
29	31	0	0	0	---	0	35	31	12	77	124	27
30	31	0	0	0	---	0	35	31	13	59	122	28
31	20	---	0	0	---	0	---	31	---	44	109	---
TOTAL	912	0	0	0	0	0	613	964	348.1	1357	3282	1130
MEAN	29	0	0	0	0	0	20.4	31	11.6	44	106	38
AC-FT	1810	0	0	0	0	0	1220	1910	690	2690	6510	2240
MAX	42	0	0	0	0	0	37	36	31	77	155	86
MIN	20	0	0	0	0	0	0	28	6.8	13	42	26

WTR YR 2003 TOTAL 8606.1 MEAN 23.6 MAX 155 MIN 0 AC-FT 17070

MAX DISCH: 168 CFS AT 10:15 ON Aug. 27, 2003 GH 2.44 FT. SHIFT 0 FT.

MAX GH: 2.44 FT. AT 15:00 ON Aug. 27, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

ST. VRAIN SUPPLY CANAL NEAR LYONS, CO

LOCATION.--Lat 40°13'05", long 105°15'35", NE¼NW¼ sec. 20, T.3 N., R.70 W., Boulder County.

DRAINAGE AREA.--N/A

GAGE.--A-35 Stevens's recorder in a 36-inch galvanized shelter with supplemental outside staff gage. An 8210 Sutron data collection platform (DCP) and shaft encoder was installed in 1997. The station is maintained by NCWCD personnel.

REMARKS.--The primary record is usually hourly DCP data with chart backup. NCWCD DCP equipment was removed this year. DWR equipment was installed and working for August 5-31 and September 1, 19-30. For the remainder of the year, the record was taken from mean daily chart readings, with hourly entry as required for large ranges in stage. The record is complete except for: May 2-5, 2003 when the chart clock was not working. However, this occurred during a period of constant flow (as recorded by the chart's range in stage). So the period was estimated without loss of accuracy. The peak flow occurred on August 3, 2003 at 10:30 at GH 2.43 with 0 shift for 254 cfs. The canal was in use from October 1, 2001 to October 30, 2002 and April 7, 2003 to September 30 2003. The record is good. This record will soon be kept as part of Water District 5 Diversion Data. At that time it will no longer be published as part of Colorado Streamflow Data. Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--SVSLYOCO05 USED FROM 01-OCT-2002 TO 30-SEP-2003

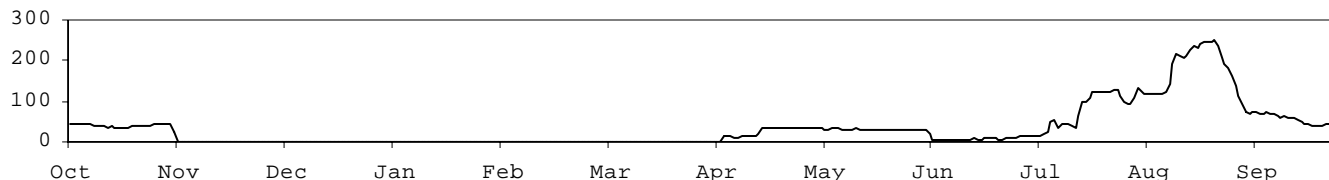
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	0	0	0	0	0	0	33	29	15	93	137
2	45	0	0	0	0	0	0	33	30	16	95	115
3	46	0	0	0	0	0	0	33	29	16	109	95
4	45	0	0	0	0	0	0	33	29	15	132	76
5	43	0	0	0	0	0	0	33	18	16	124	70
6	43	0	0	0	0	0	0	31	7.2	16	120	74
7	44	0	0	0	0	0	17	30	7.2	16	120	73
8	39	0	0	0	0	0	14	32	6.4	18	118	71
9	38	0	0	0	0	0	13	33	7.2	24	118	71
10	38	0	0	0	0	0	11	32	6	50	118	73
11	37	0	0	0	0	0	12	29	6.8	54	119	70
12	36	0	0	0	0	0	13	29	6.8	34	122	71
13	37	0	0	0	0	0	13	29	6.8	45	142	66
14	36	0	0	0	0	0	14	29	6.4	46	193	60
15	36	0	0	0	0	0	14	32	7.2	43	214	62
16	36	0	0	0	0	0	14	31	6	39	212	61
17	36	0	0	0	0	0	22	29	6.4	36	209	60
18	36	0	0	0	0	0	35	30	7.7	66	212	57
19	37	0	0	0	0	0	35	30	6.4	99	226	56
20	37	0	0	0	0	0	33	29	6.8	100	236	50
21	37	0	0	0	0	0	33	28	7.7	106	233	44
22	39	0	0	0	0	0	34	28	8.1	125	239	44
23	39	0	0	0	0	0	35	29	8.6	124	245	40
24	39	0	0	0	0	0	35	29	7.7	125	247	38
25	42	0	0	0	0	0	35	30	6.8	124	247	37
26	43	0	0	0	0	0	35	30	6.4	124	250	37
27	43	0	0	0	0	0	34	31	8.6	125	237	42
28	43	0	0	0	0	0	33	29	12	128	207	46
29	44	0	0	0	---	0	35	30	11	130	193	43
30	43	0	0	0	---	0	34	30	12	111	181	46
31	26	---	0	0	---	0	---	30	---	96	160	---
TOTAL	1227	0	0	0	0	0	603	944	325.2	2082	5471	1885
MEAN	40	0	0	0	0	0	20.1	31	10.8	67	176	63
AC-FT	2430	0	0	0	0	0	1200	1870	645	4130	10850	3740
MAX	46	0	0	0	0	0	35	33	30	130	250	137
MIN	26	0	0	0	0	0	0	28	6	15	93	37

WTR YR 2003 TOTAL 12537.2 MEAN 34.3 MAX 250 MIN 0 AC-FT 24870

MAX DISCH: 254 CFS AT 10:30 ON Aug. 26, 2003 GH 2.43 FT. SHIFT 0 FT.
MAX GH: 2.43 FT. AT 10:30 ON Aug. 26, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

LITTLE THOMPSON RIVER @ CANYON MOUTH NEAR BERTHOUD, CO

LOCATION.--Lat 40°15'29", long 105°12'21", SW¼NW¼ sec. 2, T. 3 N., 70 W., Boulder County, on the left bank, at the mouth of the Canyon, 1800 ft. upstream from the Culver Ditch Diversion and 8.5 mi. southwest of Berthoud, Co.

DRAINAGE AREA.--100 mi².

GAGE.--Graphic water stage recorder with satellite monitoring in a 42" metal well. The drop tape is the primary reference. The DCP is the primary record.

REMARKS.--The hourly satellite record is the primary record with chart as back up. Daily maximum and minimum stages for the satellite record checked to within +0.02 with the chart. Shaft encoder corrections were entered in Records program and prorated hourly by time (See datum correction sheet). Mean GH's from the chart were used for September 18-30--when the shaft encoder failed. Record is complete and reliable except for the following periods: November 04-March 12: Station was closed for the winter; April 2,4,5,9,10--Flush corrections made; May 3,4,5--flush correction made; November 04 & March 12: Partial record on closing and opening days. The record is good except for the following days which were estimated and poor: November 5; March 12; April 2,4,5,9,10,14; May 3-5. Station maintained and record developed by Shera Sumerford.

RATING TABLE.--LTCANYCO12 USED FROM 01-OCT-2002 TO 16-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

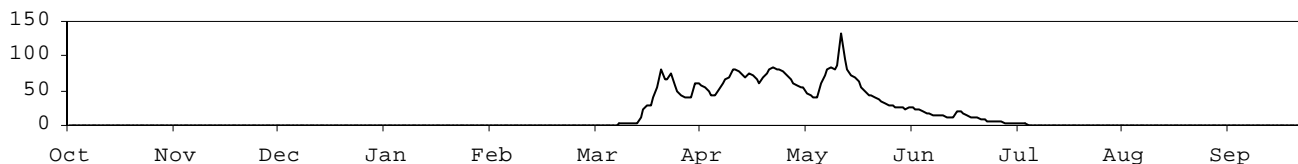
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.92	-	-	-	-	41	66	27	5.3	.34	.51
2	.54	.89	-	-	-	-	39	60	26	4.7	.35	.39
3	.66	.89	-	-	-	-	62	59	25	4	.29	.33
4	.57	.49	-	-	-	-	61	56	24	3.2	.28	.29
5	.54	-	-	-	-	-	58	54	25	2.8	.23	.23
6	.53	-	-	-	-	-	55	47	25	2.3	.22	.2
7	.54	-	-	-	-	-	48	42	24	2	.22	.27
8	.53	-	-	-	-	-	42	39	23	1.8	.28	.83
9	.53	-	-	-	-	-	44	39	19	1.6	.4	1.1
10	.53	-	-	-	-	-	52	62	17	1.4	.41	1.1
11	.53	-	-	-	-	-	60	73	16	1.1	.38	1.1
12	.57	-	-	-	-	1.5	67	82	14	1	.37	1.1
13	.62	-	-	-	-	1.6	70	84	14	.77	.35	1
14	.61	-	-	-	-	1.9	81	81	15	.61	.31	1
15	.56	-	-	-	-	2.1	81	87	15	.57	.29	.89
16	.6	-	-	-	-	2.3	79	134	12	.56	.27	.66
17	.58	-	-	-	-	2.7	71	95	11	.57	.26	.57
18	.58	-	-	-	-	12	69	82	12	.56	.6	.53
19	.66	-	-	-	-	24	74	72	20	.59	.51	.53
20	.66	-	-	-	-	28	72	69	19	.54	.36	.53
21	.66	-	-	-	-	30	65	63	16	.46	.29	.53
22	.69	-	-	-	-	41	61	55	14	.47	.31	.57
23	.73	-	-	-	-	56	69	49	11	.52	.25	.44
24	.81	-	-	-	-	80	76	44	11	.42	.21	.44
25	.75	-	-	-	-	66	80	43	11	.38	.2	.53
26	.8	-	-	-	-	65	83	40	10	.43	.18	.49
27	.74	-	-	-	-	74	82	38	8.5	.45	.18	.49
28	.81	-	-	-	-	58	81	34	7.2	.54	.18	.53
29	.81	-	-	-	-	48	78	31	6.5	.58	1	.53
30	.78	-	-	-	-	42	73	29	6.1	.52	1.4	.49
31	.91	---	-	-	---	39	---	28	---	.38	.73	---
TOTAL	19.8	3.19	-	-	-	675.1	1974	1837	484.3	41.12	11.65	18.2
MEAN	.64	.11	-	-	-	21.8	66	59	16.1	1.33	.38	.61
AC-FT	39	6.3	-	-	-	1340	3920	3640	961	82	23	36
MAX	.91	.92	-	-	-	80	83	134	27	5.3	1.4	1.1
MIN	.37	-	-	-	-	-	39	28	6.1	.38	.18	.2

WTR YR 2003 TOTAL 5064.36 MEAN 13.9 MAX 134 MIN - AC-FT 10050

MAX DISCH: 467 CFS AT 22:3- ON May. 15, 2003 GH 4.98 FT. SHIFT -0.07 FT.

MAX GH: 4.98 FT. AT 22:3- ON May. 15, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06744000 BIG THOMPSON RIVER AT MOUTH NEAR LA SALLE, CO

LOCATION.--Lat 40°21'00", long 104°47'04".

DRAINAGE AREA AND PERIOD OF RECORD.--828 mi²; 1951 to present.

GAGE.--8210 data collection platform and a graphic recorder in wooden shelter with galvanized well section. The drop tape is the primary reference with a supplemental outside chain gage.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart back up. Daily maximum and minimum stages for the satellite record did agree within +/- 0.02 of the chart. The record is complete. The record is reliable except for the following periods: December 20; 23-27, 2002; January 10-13, 16, 18-19, 23-24; February 24-26; March 17-18, 20-21, 2003--stage-discharge relationship was affected by ice on the control; March 19, 2003--inlets were froze; June 8, 2003--both recorder and DCP off. The record is good except for the following days which are estimated and poor: December 20; 23-27; January 10-13, 16, 18-19, 23-24; February 24-26; March 17-21; June 8. Station maintained and record developed by Shera Sumerford.

RATING TABLE.--BIGLASCO25 USED FROM 01-OCT-2002 TO 30-SEP-2003

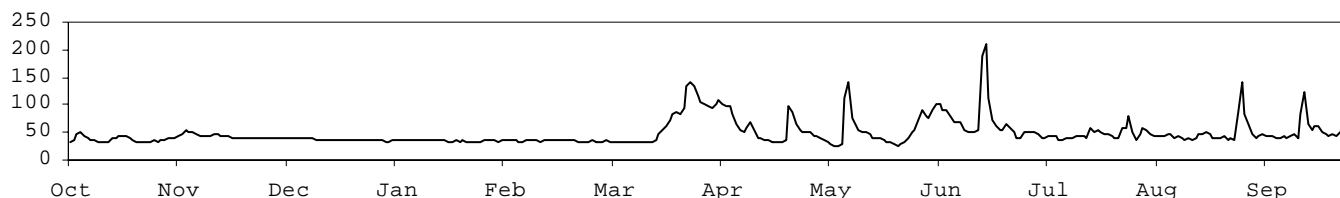
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	42	39	35	35	33	98	45	91	49	37	85
2	38	47	40	35	36	34	96	43	78	51	48	67
3	46	53	39	35	37	35	101	40	75	49	58	48
4	49	51	40	36	35	34	107	37	89	48	56	40
5	44	50	41	37	35	33	101	33	101	41	47	42
6	39	47	40	36	34	34	99	28	102	41	42	48
7	38	45	39	37	33	33	97	27	92	43	44	45
8	36	45	39	37	35	33	84	25	89	42	44	42
9	32	43	39	35	36	33	66	28	78	42	42	43
10	34	44	36	36	36	33	53	113	70	37	46	41
11	34	47	36	36	35	34	52	141	70	37	46	41
12	33	47	38	36	34	32	59	76	68	40	41	43
13	39	44	36	36	35	32	68	62	53	39	42	41
14	40	43	36	35	35	32	53	56	49	39	40	42
15	44	42	36	35	36	33	39	52	52	43	38	46
16	43	41	36	36	36	34	39	50	49	44	39	41
17	42	41	36	34	36	37	37	47	53	43	37	85
18	40	40	36	34	35	46	35	41	188	41	40	125
19	38	40	35	36	35	55	33	39	210	58	47	65
20	34	40	36	34	35	62	34	39	111	49	46	53
21	33	40	35	35	35	71	32	38	73	53	50	62
22	34	40	35	33	35	84	32	32	60	50	46	61
23	33	40	36	34	34	86	38	31	53	47	41	50
24	34	40	36	34	34	84	29	53	48	48	40	47
25	36	41	36	33	34	96	86	27	66	44	41	45
26	31	40	36	34	33	134	65	29	57	40	42	46
27	37	40	36	36	35	141	56	31	49	41	38	44
28	37	41	35	35	34	133	52	39	39	58	39	52
29	39	39	35	36	---	115	52	49	39	58	36	54
30	39	39	34	35	---	106	50	53	52	80	86	48
31	39	---	34	34	---	101	---	73	---	51	143	---
TOTAL	1169	1292	1141	1090	978	1883	1912	1453	2309	1446	1482	1592
MEAN	38	43	37	35	35	61	64	47	77	47	48	53
AC-FT	2320	2560	2260	2160	1940	3730	3790	2880	4580	2870	2940	3160
MAX	49	53	41	37	37	141	107	141	210	80	143	125
MIN	31	39	34	33	33	32	32	25	39	37	36	40

WTR YR 2003 TOTAL 17747 MEAN 48.6 MAX 210 MIN 25 AC-FT 35200

MAX DISCH: 342 CFS AT 15:00 ON Jun. 18, 2003 GH 2.62 FT. SHIFT 0.02 FT.
MAX GH: 2.62 FT. AT 15:00 ON Jun. 18, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06752000 CACHE LA POUVRE RIVER AT MOUTH OF CANYON, NEAR FORT COLLINS, CO

LOCATION.--Lat 40°39'52", long 105°13'26", in NW¼ sec. 15, T.8 N., R.70 W., Larimer County, Hydrologic Unit 10190007, on left bank at mouth of canyon, 0.5 mi downstream from headgate of Poudre Valley Canal, 1.2 mi upstream from Lewistone Creek, and 9.3 mi northwest of courthouse in Fort Collins.

DRAINAGE AREA AND PERIOD OF RECORD.--1,056 mi². Sporadic and somewhat unreliable data from June 1881 to Aug. 1883. Reliable data from Oct. 1883 to current year. Periodic water-quality data from 1962 to 1995.

GAGE.--F-type water-stage recorder and satellite monitoring in concrete shelter and well with supplemental outside chain gage.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart as back up. The record is complete and reliable except for the following periods. November 27- 28, December 5-12 and 19 were ice affected; December 20-31, January 1-31, February 1-28 March 1-11 the station was closed. Flows were estimated. Mean daily chart values were used October 27, 2002 and April 6, 2003 to correct for Daylight Savings Time. Satellite mean gage heights checked with chart values to within ± .02 ft. As mentioned earlier a block wall was built and March 11 & 12,2003 as a continuation of the flood hardening of this gage and this narrowed the channel beneath the cable section by 2 feet. The record is good, except for estimated periods. Station maintained and record developed by George Sievers.

RATING TABLE.--CLAFTCCO10 USED FROM 01-OCT-2002 TO 01-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

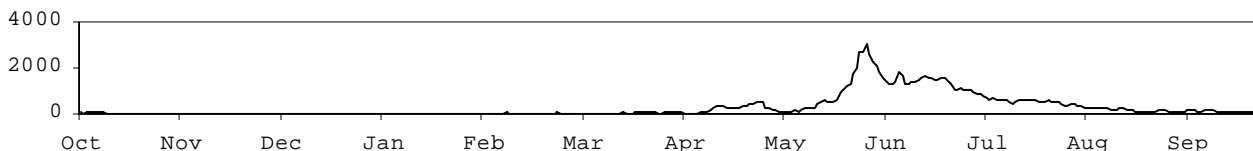
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	11	32	21	21	21	49	303	3010	1080	383	142
2	45	18	29	24	22	18	74	249	2620	1050	366	116
3	42	42	21	22	20	16	73	183	2300	1030	404	107
4	47	28	23	22	13	19	83	142	2050	976	431	121
5	45	29	19	23	12	15	59	124	1800	885	334	97
6	44	28	25	20	8.8	21	42	92	1580	858	306	86
7	44	24	22	23	17	20	36	70	1480	782	283	104
8	44	30	18	15	1.6	25	35	59	1330	678	239	150
9	46	28	26	15	30	24	34	62	1270	649	244	143
10	38	22	18	14	50	26	37	142	1420	663	271	133
11	40	15	25	5	32	26	62	122	1840	651	256	129
12	37	16	28	22	30	31	85	174	1640	622	277	126
13	36	18	35	39	20	30	85	260	1300	607	293	132
14	24	30	36	34	22	32	136	275	1340	580	266	145
15	14	23	31	28	20	36	290	234	1390	503	201	141
16	25	14	31	20	18	35	367	302	1430	462	185	135
17	25	14	22	19	14	38	344	394	1470	500	216	128
18	21	31	29	22	22	45	316	532	1570	572	264	123
19	19	21	18	21	25	26	283	595	1650	622	241	113
20	14	19	26	21	18	4.1	256	503	1580	650	216	95
21	10	29	19	21	19	43	235	490	1530	576	203	85
22	12	26	23	20	24	57	238	508	1480	603	153	77
23	16	26	25	20	23	53	283	635	1480	575	129	80
24	15	28	21	26	15	53	350	920	1580	551	127	80
25	22	27	23	21	8.6	44	377	1040	1580	486	128	78
26	25	35	21	23	47	47	415	1260	1440	517	123	75
27	23	36	25	27	22	62	438	1270	1310	611	118	53
28	19	35	23	35	26	44	514	1740	1070	559	113	48
29	21	35	23	17	---	35	529	1980	1080	511	101	48
30	14	33	21	19	---	33	489	2680	1110	508	132	47
31	9.3	---	22	23	---	48	---	2720	---	474	141	---
TOTAL	873.3	771	760	682	601	1027.1	6614	20060	47730	20391	7144	3137
MEAN	28.2	26	25	22	21.5	33.1	220	647	1591	658	230	105
AC-FT	1730	1530	1510	1350	1190	2040	13120	39790	94670	40450	14170	6220
MAX	47	42	36	39	50	62	529	2720	3010	1080	431	150
MIN	9.3	11	18	5	1.6	4.1	34	59	1070	462	101	47

WTR YR 2003 TOTAL 109790.4 MEAN 301 MAX 3010 MIN 1.6 AC-FT 217800

MAX DISCH: 3770 CFS AT 07:00 ON Jun. 1, 2003 GH 5.86 FT. SHIFT 0.46 FT.

MAX GH: 5.86 FT. AT 07:00 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06752500 CACHE LA POUFRE RIVER NEAR GREELEY, CO

LOCATION.--Lat 40°25'04", long 104°39'22", in NW¼ sec. 11, T.5 N., R.65 W., Weld County, Hydrologic Unit 10190007, on right bank 15 ft. downstream from highway bridge, 2.9 mi east of courthouse in Greeley, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--1,877 mi².

GAGE.--Stevens A-35 water stage recorder and satellite monitoring DCP with shaft encoder in a 48-inch metal shelter and well. The DCP was upgraded from an 8004 to a new 8210 with hourly transmissions on August 27, 2003. The outside gage is a wire weight on the bridge above the station, and some distance from the inlets. Elevation of gage is 4,610 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Primary record is taken from the hourly satellite gage readings and is mostly complete. The A-35 chart values were used October 27,2002 and April 6, 2003. These two days were the end and beginning of daylight savings time. There were several periods when the recorder clock stopped but there was complete satellite data for all of these days, except August 27-28 when the clock was stopped and the new DCP was transmitting but the values were bogus. The record is fair except for the following days, which were estimated, August 27 &28. This should be considered poor. Station maintained and records developed by George Sievers.

RATING TABLE.--CLAGRECO26 along with SH01-05 used through out the water year. See station analysis for details.

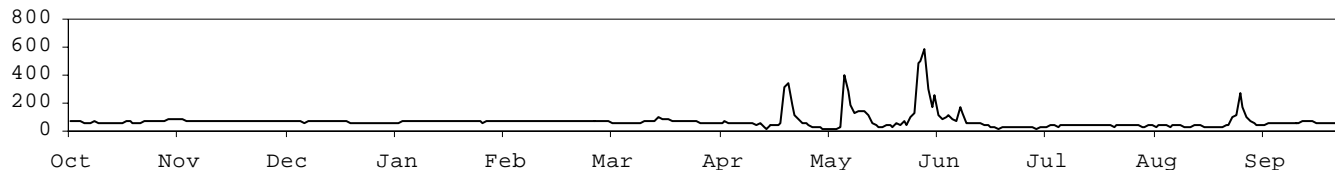
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	84	66	64	73	68	63	34	503	24	41	168
2	69	82	67	63	68	67	61	25	587	24	39	98
3	70	78	67	64	74	67	58	26	300	25	35	65
4	68	75	67	66	76	65	59	21	173	19	34	54
5	63	73	67	67	75	63	58	16	255	26	38	45
6	57	71	65	68	74	64	67	18	116	28	38	41
7	61	72	64	68	68	62	60	13	86	33	35	38
8	65	72	66	68	68	64	55	18	98	42	43	50
9	63	71	67	71	70	63	55	34	115	38	43	57
10	57	67	66	70	70	62	54	402	88	34	37	57
11	55	68	65	70	69	63	56	283	69	36	33	53
12	54	67	65	70	70	63	58	183	167	40	37	56
13	56	66	67	71	71	64	58	134	134	40	40	59
14	57	69	65	72	69	67	58	141	53	39	36	62
15	58	66	65	73	69	67	38	148	52	37	35	60
16	64	65	65	75	70	67	53	143	60	39	32	61
17	66	68	66	72	72	72	22	120	51	41	31	63
18	65	66	66	72	72	97	16	53	56	37	36	70
19	58	68	66	71	71	85	42	41	46	47	42	71
20	60	69	64	73	70	81	48	29	46	42	36	70
21	64	69	64	73	71	85	45	33	35	41	35	67
22	68	69	62	71	70	71	54	39	25	37	34	63
23	72	68	62	71	70	71	312	36	19	38	32	61
24	76	68	60	75	65	76	343	30	22	39	30	63
25	76	70	57	72	69	75	187	64	22	38	27	62
26	74	69	53	67	68	74	108	40	28	33	35	57
27	78	69	57	64	68	78	81	74	27	39	45	59
28	76	67	62	65	68	73	53	38	23	42	40	52
29	87	66	63	74	---	68	50	103	27	44	99	54
30	84	67	64	71	---	64	38	130	29	40	120	47
31	83	---	62	73	---	64	---	485	---	39	274	---
TOTAL	2070	2099	1982	2164	1968	2170	2310	2954	3312	1121	1512	1883
MEAN	67	70	64	70	70	70	77	95	110	36	49	63
AC-FT	4110	4160	3930	4290	3900	4300	4580	5860	6570	2220	3000	3730
MAX	87	84	67	75	76	97	343	485	587	47	274	168
MIN	54	65	53	63	65	62	16	13	19	19	27	38

WTR YR 2003 TOTAL 25545 MEAN 70 MAX 587 MIN 13 AC-FT 50670

MAX DISCH: 1080 CFS AT 00:00 ON Jun. 2, 2003 GH 5.05 FT. SHIFT -0.23 FT.
MAX GH: 5.05 FT. AT 00:00 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO

LOCATION.--Lat 40°24'44", long 104°33'46", in NW¼SW¼ sec. 9, T.5 N., R.64 W., Weld County, Hydrologic Unit 10190003, on downstream side of bridge on State Highway 37, 1.9 mi north of railroad in Kersey, and 2.5 mi downstream from Cache la Poudre River.

DRAINAGE AREA AND PERIOD OF RECORD.--9,659 mi². May 1901 to Dec. 1903, Mar. 1905 to current year. Monthly totals only for some periods. Periodic water-quality data available from 1950.

GAGE.--A graphic water-stage recorder and digital shaft encoder activated by a manometer in a concrete block shelter, also equipped with a satellite monitoring DCP. Both devices are hooked to the manometer. An outside wire weight is used for referencing the gage. A land-line phone is installed and the DCP is equipped with a voice modem card.

REMARKS.--The primary record is hourly data taken from the manometer. The manometer-encoder tracking was checked by comparison to chart mean gage heights. Satellite data checked against the chart to ±0.02 ft. Record is rated fair due to manometer operation and channel instability. The estimated periods, March 19-20, 24-31 April 24-26, May 11 should be considered poor. For complete station break down, see original record at Division Office. Station maintained and record developed by George Sievers.

RATING TABLE.--PLAKERSH01 USED FROM 01-OCT-2002 TO 01-OCT-2002; PLAKERCO22 USED FROM 26-NOV-2002 TO 14-MAR-2003; PLAKERSH02 USED FROM 14-MAR-2003 TO 11-MAY-2003; PLAKERSH03 USED FROM 11-MAY-2003 TO 06-AUG-2003; PLAKERCO22 USED FROM 06-AUG-2003 TO 29-AUG-2003; PLAKERSH04 USED FROM 29-AUG-2003 TO 31-AUG-2003; PLAKERSH05 USED FROM 01-SEP-2003 TO 01-OCT-2003

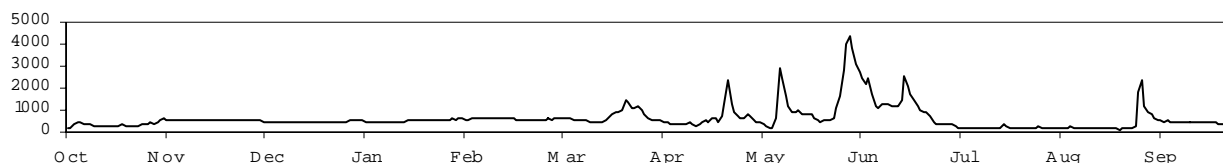
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	574	482	502	598	586	580	782	4040	392	224	2350
2	190	563	476	477	585	604	551	748	4330	389	199	1160
3	346	558	476	465	589	624	534	581	3790	359	194	873
4	492	567	464	477	628	634	502	500	3050	341	189	808
5	455	583	464	466	674	614	463	429	2730	268	178	678
6	369	572	450	465	634	618	444	354	2470	201	173	571
7	322	569	442	466	595	603	392	274	2200	194	160	509
8	321	566	436	467	593	581	378	218	2480	221	166	488
9	300	558	437	454	614	546	345	204	1730	209	161	501
10	293	559	435	444	599	527	337	671	1190	158	243	469
11	285	561	423	433	604	515	376	2880	1090	159	195	443
12	265	563	430	437	601	507	390	2440	1240	159	171	424
13	265	562	444	456	593	499	412	1620	1310	160	184	427
14	271	556	440	470	603	481	378	1150	1240	155	169	425
15	279	540	440	514	606	449	288	943	1210	141	156	429
16	297	535	449	510	610	434	366	869	1210	145	147	422
17	307	537	455	522	620	442	485	1030	1200	149	142	411
18	326	535	468	526	582	553	518	845	1490	144	141	457
19	300	530	454	531	574	760	486	815	2520	173	163	470
20	286	526	449	541	563	820	636	850	2070	336	195	444
21	280	518	459	539	548	916	600	789	1730	229	161	439
22	290	515	455	540	536	926	481	678	1460	184	154	435
23	311	516	456	521	538	1040	703	538	1200	171	141	432
24	329	505	449	549	530	1440	1240	442	1030	174	137	413
25	346	518	430	552	542	1370	2400	505	916	163	132	382
26	362	535	410	554	582	1090	1290	513	871	155	144	357
27	416	552	453	566	587	1080	871	587	687	167	142	341
28	391	546	510	583	592	1150	711	645	485	184	137	325
29	451	551	513	595	---	980	602	1080	370	217	157	301
30	510	515	503	583	---	820	649	1660	352	205	307	279
31	596	---	508	591	---	680	---	2830	---	290	1840	---
TOTAL	10438	16385	14160	15796	16520	22889	18378	28470	51691	6592	7002	16463
MEAN	337	546	457	510	590	738	613	918	1723	213	226	549
AC-FT	20700	32500	28090	31330	32770	45400	36450	56470	102500	13080	13890	32650
MAX	596	583	513	595	674	1440	2400	2880	4330	392	1840	2350
MIN	187	505	410	433	530	434	288	204	352	141	132	279

WTR YR 2003 TOTAL 224784 MEAN 616 MAX 4330 MIN 132 AC-FT 445900

MAX DISCH: 4690 CFS AT 05:00 ON Jun. 2, 2003 GH 7.14 FT. SHIFT 0.01 FT.
MAX GH: 7.14 FT. AT 05:00 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06758500 SOUTH PLATTE RIVER NEAR WELDONA, CO

LOCATION.--Lat 40°19'16", long 103°55'10", in SW¼SW¼ sec. 7, T.4 N., R.58 W., Morgan County, Hydrologic Unit 10190003, on left bank 875 ft downstream from bridge on State Highway 144, 2.8 mi southeast of Weldona, and 4.2 mi upstream from Bijou Creek.

DRAINAGE AREA AND PERIOD OF RECORD.--13,190 mi². October 1952 to current year.

GAGE.--Graphic water-stage recorder and satellite monitoring equipment in a corrugated metal pipe and stilling well. The satellite equipment is a Sutron 8004 with digital shaft encoder. An electric tape inside the station references the gage. A new station was installed and operation began on May 2, 1991.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart back up. The record is complete and reliable. Mean gage heights from the chart were used October 27, 2002, and April 6, 2003 to compute discharge on daylight savings time days. Chart values were also used October 31, November 1-2, January 21-27, August 18-19 and 26-29, when the satellite values were not being transmitted. All satellite data used agreed with the mean gage heights taken from the chart to within ±0.02 feet. Only 2 small datum corrections were required during the entire year. They were applied to the record. Record is considered fair because of all the shifting sand. There was one estimated day, March 14, 2003 when there was a flush correction. A mild winter resulted in no ice. Station maintained and record developed by George Sievers.

RATING TABLE.--MULTIPLE CHANGES THROUGHOUT YEAR; SEE DAILY RECORD

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

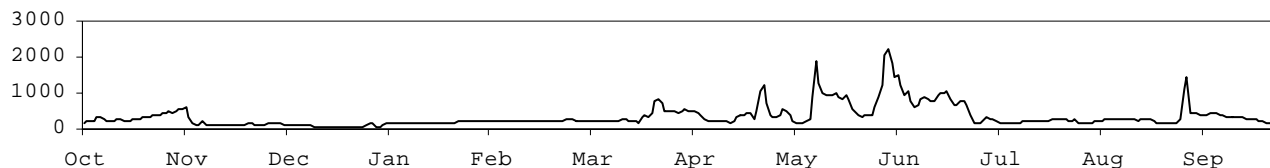
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	614	133	152	214	226	523	404	1220	183	189	1110
2	198	321	123	148	216	220	530	537	2060	235	176	1440
3	208	194	114	146	216	217	526	509	2220	320	142	446
4	202	124	108	142	216	223	506	373	1810	281	176	464
5	314	131	99	147	219	217	494	247	1460	265	233	417
6	337	210	99	146	216	220	443	188	1480	220	244	383
7	282	138	96	146	214	218	364	154	1230	163	220	408
8	248	106	89	147	229	217	299	177	930	145	273	408
9	232	105	84	147	244	217	217	220	1060	190	262	420
10	238	93	81	144	216	216	218	301	785	191	252	457
11	256	91	78	152	211	218	227	880	590	162	282	439
12	254	114	72	146	213	228	227	1880	676	148	297	409
13	240	113	68	142	226	237	222	1270	846	170	297	366
14	242	101	68	143	227	258	219	998	881	221	292	319
15	249	96	68	142	223	253	202	960	818	243	274	333
16	269	90	68	143	222	249	166	944	789	221	258	338
17	284	90	68	146	218	244	212	924	802	215	252	331
18	296	90	68	146	216	200	324	1020	930	206	244	318
19	318	115	67	147	216	191	391	868	1000	205	253	322
20	330	148	73	145	215	345	367	861	1010	198	287	291
21	345	142	68	140	213	401	427	924	1030	244	292	278
22	374	136	67	175	214	314	420	829	807	233	291	271
23	383	131	66	239	216	464	302	564	676	265	211	255
24	408	133	75	213	207	753	502	479	690	301	170	224
25	419	138	76	205	254	852	1080	392	766	297	154	210
26	430	142	123	205	280	733	1230	361	768	285	158	194
27	476	141	188	209	296	524	745	380	648	270	154	172
28	467	142	149	213	241	500	414	366	369	244	161	158
29	520	143	80	213	---	504	357	388	168	213	165	153
30	556	141	57	214	---	483	348	638	194	255	175	156
31	573	---	138	213	---	444	---	912	---	193	258	---
TOTAL	10111	4473	2811	5156	6308	10586	12502	19948	28713	6982	7092	11490
MEAN	326	149	91	166	225	341	417	643	957	225	229	383
AC-FT	20060	8870	5580	10230	12510	21000	24800	39570	56950	13850	14070	22790
MAX	573	614	188	239	296	852	1230	1880	2220	320	297	1440
MIN	163	90	57	140	207	191	166	154	168	145	142	153

WTR YR 2003 TOTAL 126172 MEAN 346 MAX 2220 MIN 57 AC-FT 250300

MAX DISCH: 2330 CFS AT 01:30 ON Jun. 3, 2003 GH 4.75 FT. SHIFT 0.62 FT.

MAX GH: 4.75 FT. AT 01:30 ON Jun. 3, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06759910 SOUTH PLATTE RIVER AT BALZAC, CO

LOCATION.--Lat 40°21'23", long 103°31'39", in SW¼NE¼ sec. 33, T.5 N., R.55 W., Morgan County, Hydrologic Unit 10190012, on bank 4.3 mi northeast of Snyder, and .7 mi downstream from North Sterling Canal.

DRAINAGE AREA.--16,623 mi².

GAGE.--Stevens A-35 type graphic water stage recorder and satellite monitoring DCP and stilling well. Gage is referenced with an electric tape and there is a supplemental outside wire weight. The DCP is an 8210 with a speech modem

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart back up. The record is complete and reliable except for the following days. October 8, 17-18, 21-22, 25; November 7-8, 15; December 29-30; January 26-28; February 12, 25 ; March 21, April 15,17; May 19-20, 27-28; June 9,30; July 1, 8, 10, 15, 22, 24, 27-28, 31; August 7, 18-19, 26; September 3-4, 8, 16, 18, 23. ---- plugged inlets. Mean daily chart values were used October 28, and April 7 to correct for Daylight Savings Time. Also chart values were used November 22-25 when the DCP was down. Record is good, except for the days with plugged inlets, which were fair. Station maintained and record developed by George Sievers.

RATING TABLE.--PLABALSH01-THRU SH07 USED AT VARIOUS TIMES THROUGH OUT THE WATER YEAR. SEE STATION ANALYSIS

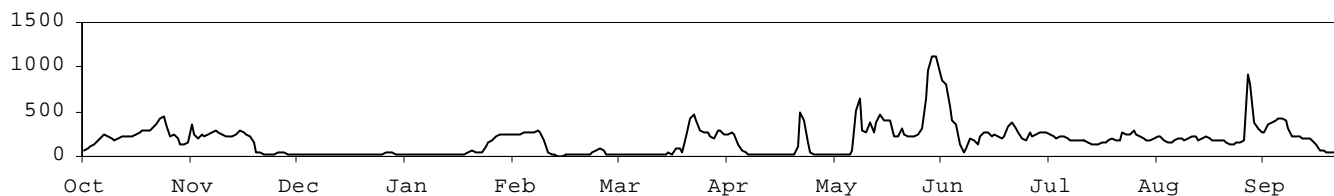
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	354	32	21	252	22	206	23	641	260	237	172
2	89	255	29	22	245	16	295	26	956	234	219	913
3	121	191	26	24	246	15	284	30	1110	242	201	810
4	140	245	23	24	252	15	251	29	1130	259	179	380
5	180	232	21	25	260	14	252	26	939	267	178	310
6	231	241	19	24	262	14	264	22	855	271	199	276
7	247	260	20	22	265	14	241	22	809	255	220	263
8	230	290	21	22	275	15	144	18	552	230	225	350
9	200	270	21	22	285	15	71	17	400	204	173	388
10	183	247	20	23	265	14	45	26	369	220	154	404
11	191	232	19	28	186	13	27	78	134	218	155	417
12	221	224	19	27	40	14	20	504	37	192	182	416
13	220	235	18	25	14	14	16	647	90	185	198	394
14	226	249	17	23	12	15	15	299	203	182	191	314
15	234	280	17	23	10	15	15	271	172	190	178	232
16	236	259	18	24	11	16	13	390	131	187	191	220
17	260	237	17	22	12	17	16	276	217	168	220	221
18	280	224	16	23	14	20	17	374	274	154	220	200
19	291	162	16	24	16	37	16	460	266	139	190	202
20	291	47	16	42	15	24	17	410	232	128	209	198
21	310	38	16	61	15	80	16	406	240	127	214	161
22	350	29	15	54	15	88	19	403	235	150	199	127
23	419	24	16	42	15	45	19	228	201	154	175	70
24	453	25	14	42	30	213	19	218	226	190	173	61
25	350	28	14	117	50	424	119	308	325	195	184	51
26	225	36	21	160	66	479	490	251	379	186	170	48
27	257	35	47	190	85	406	398	230	313	190	158	43
28	203	34	55	230	59	289	167	220	266	270	145	43
29	126	32	35	247	---	274	34	228	211	249	143	40
30	135	32	20	253	---	278	25	244	170	257	154	40
31	165	---	15	252	---	231	---	320	---	300	162	---
TOTAL	7140	5047	673	2138	3272	3146	3531	7004	12083	6453	5796	7764
MEAN	230	168	22	69	117	101	118	226	403	208	187	259
AC-FT	14160	10010	1330	4240	6490	6240	7000	13890	23970	12800	11500	15400
MAX	453	354	55	253	285	479	490	647	1130	300	237	913
MIN	76	24	14	21	10	13	13	17	37	127	143	40

WTR YR 2003 TOTAL 64047 MEAN 175 MAX 1130 MIN 10 AC-FT 127000

MAX DISCH: 1490 CFS AT 15:30 ON Sep. 2, 2003 GH 4.24 FT. SHIFT -0.57 FT.
MAX GH: 4.24 FT. AT 15:30 ON Sep. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06763990 SOUTH PLATTE RIVER AT JULESBURG, CO. CHANNEL NO 2

LOCATION.--Lat 40°58'37", long 102°14'52", in NE¼SE¼ sec. 33, T.12 N., R.44 W., Sedgwick County, on right bank of channel No 2 (right channel) 5 ft downstream from bridge on U.S. Highway 385, 0.9 mi southeast of Julesburg, 3.0 mi upstream from Colorado-Nebraska State line, and 8 mi downstream from Lodgepole Creek.

DRAINAGE AREA AND PERIOD OF RECORD.--23,821 mi². April 1902 to current year. Monthly data only for some periods. Published as near Julesburg and at Ovid in earlier years. Water quality data available from 1945 to 1995.

GAGE.--Satellite monitoring DCP and connected to a Sutron Accubbler. A wire weight gage on the bridge is used to reference the bubbler. The accubbler was moved this summer from the concrete shelter on the bridge abutment out onto the bridge next to the shaft encoder in the bridge well. Datum of gage is 3,448.51 ft. above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage Height record was not used in 2003, due to observation of zero flow conditions. The channel was dry this year. Numerous observations were made, and a measurable amount of flow was not seen during the 2003 water year. "Estimates" of up to 0.5 cfs were made, but these were subsequently determined to be based on the amount of water ponded at the bridge and the fact that a small trickle of flow seemed to be occurring at some distance downstream from the bridge. No measurable flow was observed in 2003. Flow occurred only in channels 1 and 4. Station maintained and record developed by Div. 1 Hydrographic Staff.

RATING TABLE.--

SOUTH PLATTE RIVER AT JULESBURG (RIGHT CHAN. #2)

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 2003 TOTAL 0 MEAN 0 MAX 0 MIN 0 AC-FT 0

MAX DISCH: None
MAX GH: None

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

PLATTE RIVER BASIN

06763990 SOUTH PLATTE RIVER AT JULESBURG, CO. CHANNEL NO 1

LOCATION.--Lat 40°58'37", long 102°14'52", in NE¼SE¼ sec. 33, T.12 N., R.44 W.

DRAINAGE AREA.--23,821 mi².

GAGE.--Graphic water-stage recorder and satellite monitoring DCP (Sutron 8210) are connected to an AccuBubbler manometer. A wire weight gage on the bridge is used to reference the gage. DCP data is the primary record with chart as backup.

REMARKS.--The primary record is the hourly satellite data. The record is complete. The record is complete and reliable except for following periods: November 7-12 and July 12-14 when the DCP failed. December 23-29; January 11, 12, 16-18, 22-25; February 23-25; and March 1-2 when gage heights were ice-affected. On numerous winter days, transient ice "spikes" in the record were seen for a few hours, due to blockages in the channel or ice on the bubbler orifice. This bad data was deleted. Hourly data was hand entered based on extrapolation to adjacent normal looking data, so that a reasonable daily average was maintained. This record is added to the daily flows of channels 2,3, and 4 to form the record for the South Platte River at Julesburg, Combined flow. Station maintained and record developed by Div. 1 Hydrographic Staff.

RATING TABLE.--ONEJURCO05 USED FROM 01-OCT-2002 TO 20-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

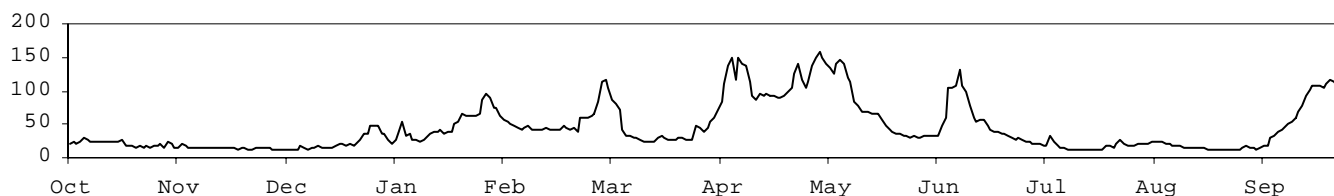
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	16	13	21	64	83	44	138	31	25	17	16
2	25	20	13	27	57	112	55	150	32	23	21	17
3	22	17	13	36	53	116	61	157	32	21	21	16
4	25	16	13	53	50	104	71	149	33	20	21	14
5	29	16	13	32	49	86	84	140	32	20	22	13
6	27	16	17	35	46	81	109	134	34	17	24	14
7	24	16	15	27	43	72	138	126	47	17	24	17
8	24	15	13	27	45	42	149	141	61	33	24	19
9	24	15	14	25	47	34	116	146	104	24	23	30
10	25	15	16	27	43	32	150	141	103	19	21	33
11	25	15	19	29	43	30	141	120	108	16	20	38
12	23	15	15	37	43	29	137	114	132	14	19	42
13	23	15	16	38	43	26	114	84	107	13	18	44
14	23	15	16	39	44	25	93	78	98	13	17	51
15	23	15	16	43	43	24	88	69	78	13	16	55
16	27	14	18	37	42	24	96	69	61	12	16	61
17	19	14	20	38	43	25	94	69	55	12	16	68
18	18	13	20	39	43	29	95	67	56	11	16	79
19	17	14	19	50	48	33	94	67	56	12	16	92
20	16	14	20	55	45	29	92	65	49	13	16	101
21	17	13	19	65	42	27	89	57	42	12	14	107
22	16	13	21	62	45	27	89	47	38	11	13	108
23	17	14	28	63	38	28	92	43	38	11	13	107
24	16	14	37	64	59	29	100	40	37	17	12	105
25	19	14	37	64	59	29	103	36	35	18	12	111
26	18	14	48	66	61	27	124	37	33	15	11	116
27	20	14	48	87	63	27	139	34	30	21	11	114
28	16	13	48	96	66	26	115	33	27	27	13	103
29	24	13	37	91	---	49	104	31	30	22	12	95
30	20	13	35	76	---	44	114	32	27	19	12	91
31	16	---	26	75	---	40	---	30	---	17	13	---
TOTAL	658	441	703	1524	1367	1389	3090	2644	1646	538	524	1877
MEAN	21	15	23	49	49	45	103	85	55	17	17	63
AC-FT	1310	875	1390	3020	2710	2760	6130	5240	3260	1070	1040	3720
MAX	29	20	48	96	66	116	150	157	132	33	24	116
MIN	16	13	13	21	38	24	44	30	27	11	11	13

WTR YR 2003 TOTAL 16401 MEAN 44.9 MAX 157 MIN 11 AC-FT 32530

MAX DISCH: 164 CFS AT 19:00 ON May. 2, 2003 GH 3.46 FT. SHIFT -0.06 FT.

MAX GH: 3.46 FT. AT 19:00 ON May. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06763980 SOUTH PLATTE RIVER AT JULESBURG, CO. CHANNEL NO 4 (INCLUDES FLOW FROM CHANNEL NO 3)

LOCATION.--Lat 40°58'46", long 102°15'15", in NW¼NE¼ sec. 33, T.12 N., R.44 W., Sedgwick County, Hydrologic Unit 10190018, on left bank of channel No 4 (left channel) 215 ft downstream from bridge on U.S. Highway 385, 0.9 mi southeast of Julesburg, 3.0 mi upstream from Colorado-Nebraska State line, and 8 mi downstream from Lodgepole Creek.

DRAINAGE AREA.--23,821 mi².

GAGE.--Graphic water-stage recorder and satellite monitoring DCP in a metal pipe shelter and well. Supplemental outside chain gage. DCP was updated to an hourly reporting this year. Station description is in the South Platte at Julesburg-combined flow-record envelope.

REMARKS.--The primary record is hourly data taken from satellite monitoring with chart backup. The record is complete. Mean daily chart averages were used on the following days when the DCP was not operational: November 8-21; January 9-21; March 13-17, 20-31; April 1-3; May 27-31; June 3-22. The record is reliable, except for the following estimated periods: October 24, 29; November 6, 7; January 2; March 3, 4; July 11; August 18, 28. During July 15-August 12 the gage appeared to have plugged inlets. This record is fair except for estimated days which are poor. This record is added to the daily flows of channels 1 and 2 to form the record for the South Platte River at Julesburg, Combined flow. Station maintained and record developed by Div. 1 Hydrographic Staff.

RATING TABLE.--PLAJULCO22 USED FROM 01-OCT-2002 TO 30-SEP-2003

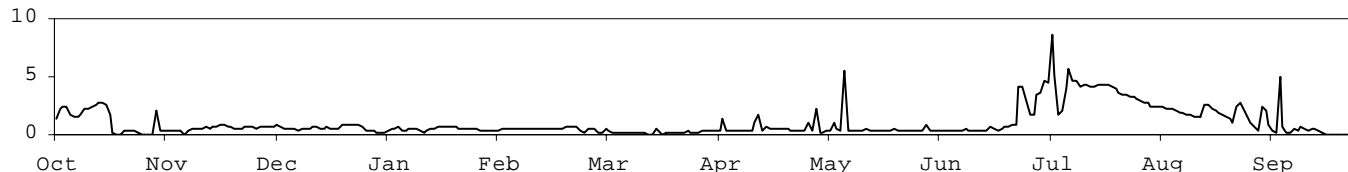
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.31	.76	.16	.26	.55	.31	.27	.41	1.8	2.9	.95
2	2.2	.35	.82	.32	.28	.14	.31	2.2	.82	1.8	2.7	.61
3	2.4	.39	.73	.48	.46	.25	.31	.22	.39	3.5	2.7	.34
4	2.5	.39	.59	.54	.5	.49	.32	.25	.38	3.6	2.5	2.5
5	1.7	.26	.5	.61	.5	.27	.32	.34	.39	4.6	2.4	2.1
6	1.5	.02	.49	.42	.54	.17	1.3	.31	.39	4.4	2.4	.9
7	1.5	.39	.44	.4	.53	.18	.31	.96	.39	8.6	2.4	.38
8	1.7	.54	.41	.46	.5	.19	.33	.47	.39	5.2	2.2	.12
9	2.3	.54	.55	.45	.48	.21	.36	.26	.39	1.8	2.2	.5
10	2.2	.46	.58	.46	.5	.19	.41	5.5	.39	2.1	2.2	.68
11	2.4	.54	.54	.31	.52	.13	.35	.33	.39	4	2.1	.13
12	2.6	.61	.69	.17	.54	.09	.38	.3	.39	5.7	1.9	.2
13	2.8	.59	.65	.31	.5	.14	.38	.29	.46	4.7	1.9	.46
14	2.8	.69	.6	.46	.48	.11	.43	.28	.39	4.7	1.8	.32
15	2.6	.77	.55	.54	.46	.09	1.1	.3	.31	4.2	1.7	.73
16	1.7	.84	.61	.61	.46	.03	1.7	.44	.31	4.3	1.6	.59
17	.11	.92	.56	.69	.49	0	.42	.4	.39	4.3	1.5	.33
18	0	.75	.49	.63	.52	.55	.76	.32	.39	4.1	1.5	.45
19	.07	.72	.47	.61	.51	.41	.44	.34	.39	4.2	2.6	.52
20	.41	.47	.92	.61	.57	.08	.44	.31	.61	4.3	2.6	.36
21	.38	.54	.92	.61	.65	.09	.45	.31	.46	4.3	2.3	.18
22	.34	.58	.92	.58	.64	.09	.57	.31	.39	4.3	2.1	.03
23	.32	.61	.92	.5	.73	.11	.44	.38	.45	4.3	1.9	.05
24	.23	.61	.82	.51	.72	.11	.55	.49	.62	4.2	1.7	.04
25	.08	.65	.82	.54	.35	.11	.43	.31	.67	3.9	1.5	.03
26	0	.58	.61	.54	.23	.17	.42	.31	.78	3.6	1.4	.03
27	0	.69	.36	.48	.46	.31	.38	.31	.92	3.4	1.1	.02
28	0	.69	.36	.37	.5	.2	.3	.31	4.2	3.4	2.5	.02
29	2.1	.73	.3	.36	---	.23	.34	.31	4.2	3.3	2.8	.02
30	.38	.77	.24	.37	---	.25	.95	.31	3	3.2	2	.07
31	.31	---	.2	.28	---	.29	---	.31	---	3.1	1.4	---
TOTAL	38.93	17	18.42	14.38	13.88	6.23	15.51	17.75	24.06	122.9	64.5	18.16
MEAN	1.26	.57	.59	.46	.5	.2	.52	.57	.8	4	2.1	.61
AC-FT	77	34	37	29	28	12	31	35	48	244	128	36
MAX	2.8	.92	.92	.69	.73	.55	1.7	5.5	4.2	8.6	2.9	.5
MIN	0	.02	.2	.16	.23	0	.3	.22	.31	1.8	1.1	.02

WTR YR 2003 TOTAL 371.72 MEAN 1.02 MAX 8.6 MIN 0 AC-FT 737

MAX DISCH: 42.5 CFS AT 02:45 ON Sep. 9, 2003 GH 3.17 FT. SHIFT -1.08 FT.
MAX GH: 3.4 FT. AT 23:15 ON Jul. 7, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO (COMBINED)

LOCATION.--See Channel No.2 and Channel No.4.

DRAINAGE AREA.--23,821 mi².

GAGE.--See Channel No.2 and Channel No. 4. During the drought conditions experienced this year, Channel No. 2 was dry all year. Channels 1 and 4 were combined for total flow at Julesburg, with 98% of the total flow coming from Channel 1. Many daily flows at channel 4 were less than 0.5 cfs, and after rounding did not contribute to the total combined flow for the day.

REMARKS.--Combined flow daily flows were computed by inserting the mean daily flows for the gages into a spreadsheet and adding the totals day-by-day. The daily totals were then manually entered into a record spreadsheet named PLAJUCCO-South Platte at Julesburg, combined flow. In summary, the following days should be considered to be estimated: November 7-12; December 23-29; January 11, 12, 16-18, 22-25; February 23-25; March 1, 2; July 11, July 12-14; August 18, 28. In summary, these ratings would apply for the following periods: October 1 to November 25; GOOD; November 26 to March 10; FAIR; March 11 to July 14; GOOD; July 15 to August 12; FAIR; August 13 to September 30: GOOD.

JULESBURG COMBINED

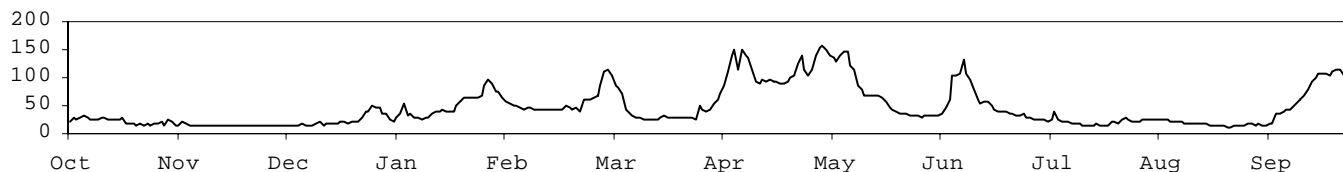
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	16	14	21	64	84	44	138	31	27	20	17
2	27	20	14	27	57	112	55	152	33	25	24	18
3	24	17	14	36	53	116	61	157	32	25	24	16
4	28	16	14	54	51	104	71	149	33	24	24	17
5	31	16	14	33	50	86	84	140	32	25	24	15
6	29	16	17	35	47	81	110	134	34	21	26	15
7	26	16	15	27	44	72	138	127	47	26	26	17
8	26	16	13	27	46	42	149	141	61	38	26	19
9	26	16	15	25	47	34	116	146	104	26	25	35
10	27	15	17	27	44	32	150	147	103	21	23	34
11	27	16	20	29	44	30	141	120	108	20	22	38
12	26	16	16	37	44	29	137	114	132	20	21	42
13	26	16	17	38	44	26	114	84	107	18	20	44
14	26	16	17	39	44	25	93	78	98	18	19	51
15	26	16	17	44	43	24	89	69	78	17	18	56
16	29	15	19	38	42	24	98	69	61	16	18	62
17	19	15	21	39	43	25	94	69	55	16	18	68
18	18	14	20	40	44	30	96	67	56	15	18	79
19	17	15	19	51	49	33	94	67	56	16	19	93
20	16	14	21	56	46	29	92	65	50	17	19	101
21	17	14	20	66	43	27	89	57	42	16	16	107
22	16	14	22	63	46	27	90	47	38	15	15	108
23	17	15	29	64	39	28	92	43	38	15	15	107
24	16	15	38	65	60	29	101	40	38	21	14	105
25	19	15	38	65	59	29	103	36	36	22	14	111
26	18	15	49	67	61	27	124	37	34	19	12	116
27	20	15	48	87	63	27	139	34	31	24	12	114
28	16	14	48	96	67	26	115	33	31	30	16	103
29	26	14	37	91	---	49	104	31	34	25	15	95
30	20	14	35	76	---	44	115	32	30	22	14	91
31	16	---	26	75	---	40	---	30	---	20	14	---
TOTAL	696	462	724	1538	1384	1391	3098	2653	1663	660	591	1894
MEAN	23	15	23	50	49	45	103	86	55	21	19	63
AC-FT	1380	916	1440	3050	2750	2760	6140	5260	3300	1310	1170	3760
MAX	31	20	49	96	67	116	150	157	132	38	26	116
MIN	16	14	13	21	39	24	44	30	30	15	12	15

WTR YR 2003 TOTAL 16754 MEAN 45.9 MAX 157 MIN 12 AC-FT 33230

MAX DISCH: 174 CFS AT 19:00 ON May 2, 2003 GH 3.46 FT.
MAX GH: 3.46 FT. AT 19:00 ON May 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



PLATTE RIVER BASIN

TRANSMOUNTAIN DIVERSIONS INTO THE SOUTH PLATTE BASIN IN COLORADO

TRANSMOUNTAIN DIVERSIONS INTO THE SOUTH PLATTE BASIN IN COLORADO, W. Y. 2003

FROM THE COLORADO RIVER BASIN													
NAME	2002			2003									TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Adams Tunnel*	29.37	11424	13863	13277	7357	5131.4	693.9	969	3316.1	6729	14352	11430	88,572
Berthoud Pass Ditch	0	0	0	0	0	0	0	0	120.6	136.9	24.53	12.67	295
Boreas Pass Ditch	0	0	0	0	0	0	0	5.56	57.7	23.17	0	0	86
Grand River Ditch	30.5	0	0	0	0	0	0	359	902	367.8	737	144.88	2,541
A.P. Gumlick Tunnel**	0	0	0	0	0	0	0	0	0	0	0	0	0
Moffat Tunnel	698	471	368.2	283.9	232.8	219.5	400.1	6135	13675	7658	3272	3108	36,522
Roberts Tunnel	1906.1	4115	4206	3915	3657	2119	377.4	555	912	5482	7086	1779	36,110
Straight Creek Tunnel	6.25	7.5	7.75	7.97	7.56	8.37	8.1	14.81	58.7	32.62	12.54	10.51	183
Vidler Tunnel	16.27	0	0	0	0	0	0	0	144.16	74.81	1	0	236
TOTALS FROM THE COLORADO RIVER BASIN (DAY-CFS)												164,544	
TOTALS FROM THE COLORADO RIVER BASIN (ACRE-FT)												326,373	
*West slope water only **Direct release to Clear Creek only. All other flow included in Moffat Tunnel													

FROM THE LARAMIE RIVER BASIN													
NAME	2002			2003									TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Bob Creek Ditch	0	0	0	0	0	0	0	52.07	94.69	0.06	0	0	147
Columbine Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0
Deadman Ditch	0	0	0	0	0	0	0	0	99.2	0	0	0	99
Laramie-Poudre Tunnel	147.6	0	0	0	0	0	0	59	4875	3791	1020	0	9,893
Skyline Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS FOR THE LARAMIE RIVER (DAY-CFS)												10,139	
TOTALS FOR THE LARAMIE RIVER (Acre Feet, 19875 AF per CALENDAR Year Allowed Under Laramie River Agreement)												20,110	
NAME	2002			2003									TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Wilson Supply Ditch (Gage)	0	0	0	0	0	0	0	573.8	777	0	0	0	1,351
minus Deadman Ditch	0	0	0	0	0	0	0	0	99.2	0	0	0	99
= SAND CR. DIVERSION	0	0	0	0	0	0	0	573.8	677.8	0	0	0	1,252
TOTALS FROM THE LARAMIE RIVER BASIN (DAY-CFS)												11,390	
TOTALS FROM THE LARAMIE RIVER BASIN (DAY-CFS)												22,593	

FROM THE NORTH PLATTE RIVER BASIN													
NAME	2002			2003									TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Cameron Pass Ditch	0	0	0	0	0	0	0	0	78.5	13.53	0	0	92
Michigan Ditch	0	32.53	26.2	16.19	8.88	7.91	6.53	219.35	1527	804	262.4	156.4	3,067
TOTALS FROM THE NORTH PLATTE RIVER BASIN (DAY-CFS)												3,159	
TOTALS FROM THE NORTH PLATTE RIVER BASIN (ACRE-FT)												6,267	

SPECIAL CATEGORIES													
NAME	2002			2003									TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Hoosier Pass Tunnel *	0	0	0	0	0	0	16.08	1050.7	1728	424.9	38.23	492.2	3,750
Aurora Homestake Pipeline**	1364	0	0	0	0	0	14.63	11.55	1922	2444	2561	221	8,538
* Diverts into Division One, but entire flow is piped to the City of Colorado Springs in Division 2													
** Contains a Mixture of Colorado River Water and Water Transferred from the Arkansas River													

PLATTE RIVER BASIN

AURORA HOMESTAKE PIPELINE ABOVE ELEVENMILE RESERVOIR

LOCATION.--

GAGE.--A venturi meter in a pipeline, equipped with satellite monitoring. The DCP, meter and facilities are owned and maintained by the City of Aurora. A second delivery tunnel was added this year with its own venturi meter.

REMARKS.--The primary record is hourly discharges taken from satellite monitoring. Water was run October 1-23, and June 2-September 4. The record appears to be complete, but reliability is questionable for the following periods: April 25-May 19: Many hours had negative values. Flows for all negative-value hours during this period were assumed to be zero. However, when reported daily means were compared with City of Aurora data, numerous differences were seen. June 15, 16: Many hours reported zero flow, but Aurora figures indicate that constant flow was present. July 16-September 30: Daily means differ greatly from Aurora Reports. Flows reported for June 14, 15 and July 16-September 30 were estimated from Aurora reports due to equipment failure. The remainder of the record must be regarded as poor due to unexplained anomalies in the data and differences with Aurora reports. The record should be considered Fair, since there is no current calibration information on the pipeline meter. The total Colorado River water imported this year by Aurora via Homestake (5%), Busk-Ivanhoe (50%), and Twin-Lakes Tunnel (50%) was 25,662 AF. The record was developed by Robert E. Cooper.

RATING TABLE.--STCONVERT USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

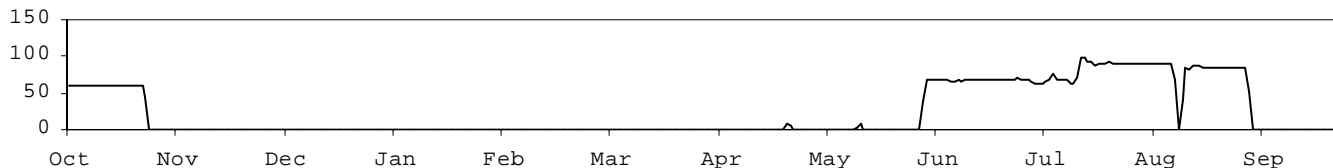
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	0	0	0	0	0	0	0	0	67	91	85
2	60	0	0	0	0	0	0	0	39	67	91	85
3	60	0	0	0	0	0	0	0	67	65	91	51
4	60	0	0	0	0	0	0	0	67	63	91	0
5	60	0	0	0	0	0	0	0	67	63	91	0
6	60	0	0	0	0	0	0	0	67	63	91	0
7	60	0	0	0	0	0	0	0	67	65	91	0
8	60	0	0	0	0	0	0	0	67	67	91	0
9	60	0	0	0	0	0	0	0	67	77	91	0
10	60	0	0	0	0	0	0	0	66	67	91	0
11	60	0	0	0	0	0	0	0	66	69	91	0
12	60	0	0	0	0	0	0	0	67	69	91	0
13	60	0	0	0	0	0	0	1	66	67	69	0
14	60	0	0	0	0	0	0	2	67	64	0	0
15	60	0	0	0	0	0	0	8	67	63	41	0
16	60	0	0	0	0	0	0	.19	67	71	84	0
17	60	0	0	0	0	0	0	.13	67	98	82	0
18	60	0	0	0	0	0	0	.05	68	97	86	0
19	60	0	0	0	0	0	0	.05	68	92	86	0
20	60	0	0	0	0	0	0	0	67	92	86	0
21	60	0	0	0	0	0	.46	0	67	87	85	0
22	60	0	0	0	0	0	.04	0	68	91	85	0
23	44	0	0	0	0	0	1.1	0	68	91	85	0
24	0	0	0	0	0	0	7.4	0	68	91	85	0
25	0	0	0	0	0	0	5	0	67	92	85	0
26	0	0	0	0	0	0	0	0	67	91	85	0
27	0	0	0	0	0	0	0	0	67	91	85	0
28	0	0	0	0	0	0	0	0	67	91	85	0
29	0	0	0	0	---	0	.63	.13	72	91	85	0
30	0	0	0	0	---	0	0	0	67	91	85	0
31	0	---	0	0	---	0	---	0	---	91	85	---
TOTAL	1364	0	0	0	0	0	14.63	11.55	1922	2444	2561	221
MEAN	44	0	0	0	0	0	.49	.37	64.1	79	82.6	7.37
AC-FT	2710	0	0	0	0	0	29	23	3810	4850	5080	438
MAX	60	0	0	0	0	0	7.4	8	72	98	91	85
MIN	0	0	0	0	0	0	0	0	0	63	0	0

WTR YR 2003 TOTAL 8538.18 MEAN 23.4 MAX 98 MIN 0 AC-FT 16940

MAX DISCH: 98.5 CFS AT 19:00 ON Jul. 17, 2003 GH 98.5 FT. SHIFT 0 FT.

MAX GH: 98.5 FT. AT 19:00 ON Jul. 17, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

09042000 EAST PORTAL HOOSIER PASS TUNNEL NEAR ALMA, CO

LOCATION.--Lat 39°21'33", long 106°04'37"; Park County, tunnel diverts water from tributaries of Blue River in Colorado River basin to Montgomery Res. (Middle Fork South Platte River) in sec. 14, T. 8 S., R. 78 W., in Platte River basin.

GAGE.--Graphic water-stage recorder (weekly) and satellite monitoring DCP at an 8-foot Parshall flume with a metal stilling well. Flume and equipment are housed inside the tunnel entrance. Facilities are owned and maintained by the City of Colorado Springs. Satellite equipment is owned and maintained by DWR.

REMARKS.--The record is developed from hourly gage heights from the satellite record, with chart back up. The record is complete and reliable. Mean daily GH's from the chart are used May 2-15, 2003. The Shaft Encoder went into reversal on May 2, 2003 at 11:00. Reversal was apparently corrected by Colo. Springs Utilities Ditchrider on May 15, 2003 at 07:00. The record is good due to increased definition by measurements. The flow is controlled by numerous diversions into the tunnel inlet from the Blue River drainage. Record developed by Michael Garner.

RATING TABLE.--STD08FTPF USED FROM 01-OCT-2002 TO 09-JUL-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

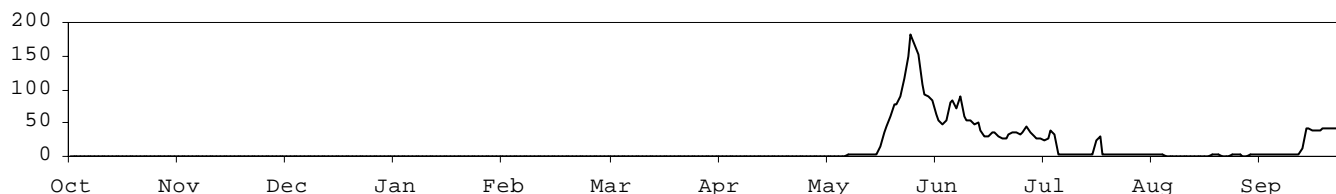
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	1.1	153	36	2	1.5
2	0	0	0	0	0	0	0	.92	106	44	1.9	1.4
3	0	0	0	0	0	0	0	.92	94	36	2.2	1.4
4	0	0	0	0	0	0	0	.92	89	30	2.1	1.5
5	0	0	0	0	0	0	0	.79	83	28	1.9	1.5
6	0	0	0	0	0	0	0	.67	62	26	1.8	1.7
7	0	0	0	0	0	0	0	.79	54	24	1.6	1.8
8	0	0	0	0	0	0	.13	1.1	48	26	1.7	1.7
9	0	0	0	0	0	0	.21	.92	55	38	1.6	1.9
10	0	0	0	0	0	0	.44	1.1	80	33	1.6	1.7
11	0	0	0	0	0	0	.58	1.2	83	3.1	1.4	1.7
12	0	0	0	0	0	0	.63	1.7	73	3	0	1.7
13	0	0	0	0	0	0	.69	2	90	2.9	0	1.7
14	0	0	0	0	0	0	.8	2.5	59	2.7	0	1.7
15	0	0	0	0	0	0	.8	2.5	54	2.7	0	1.7
16	0	0	0	0	0	0	.72	3.3	54	2.8	0	1.6
17	0	0	0	0	0	0	.72	3.9	47	2.7	0	1.5
18	0	0	0	0	0	0	.71	3.8	50	2.8	.24	1.5
19	0	0	0	0	0	0	.69	3.8	40	2.8	.64	1.3
20	0	0	0	0	0	0	.67	3.8	29	2.7	.68	4.1
21	0	0	0	0	0	0	.71	15	31	2.7	.97	4.1
22	0	0	0	0	0	0	.68	35	37	24	1.1	4.0
23	0	0	0	0	0	0	.67	45	35	30	1.2	3.9
24	0	0	0	0	0	0	.66	61	30	2.5	2	3.9
25	0	0	0	0	0	0	.73	78	27	2.5	2	4.2
26	0	0	0	0	0	0	.88	77	26	2.4	1.7	4.2
27	0	0	0	0	0	0	.92	89	33	2.5	1.4	4.2
28	0	0	0	0	0	0	.94	116	37	2.5	1.3	4.2
29	0	0	0	0	---	0	1	148	36	2.4	1.2	4.1
30	0	0	0	0	---	0	1.1	183	33	2.2	2.3	4.1
31	0	---	0	0	---	0	---	166	---	2	1.7	---
TOTAL	0	0	0	0	0	0	16.08	1050.73	1728	424.9	38.23	492.2
MEAN	0	0	0	0	0	0	.54	33.9	58	13.7	1.23	16.4
AC-FT	0	0	0	0	0	0	32	2080	3430	843	76	976
MAX	0	0	0	0	0	0	1.1	183	153	44	2.3	4.2
MIN	0	0	0	0	0	0	0	.67	26	2	0	1.4

WTR YR 2003 TOTAL 3750.14 MEAN 10.3 MAX 183 MIN 0 AC-FT 7440

MAX DISCH: 238 CFS AT 21:30 ON May. 29, 2003 GH 3.47 FT. SHIFT 0.02 FT.

MAX GH: 3.47 FT. AT 21:30 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

09046000 BOREAS PASS DITCH AT BOREAS PASS, CO

LOCATION.--Diverts water from tributaries of Blue River in Colorado River basin to Tarryall Creek in sec. 26, T.7 S., R.77 W., in Platte River basin.

GAGE.--Graphic water-stage recorder with satellite monitoring at a standard 18-inch Parshall Flume with a metal stilling well. Station is owned and maintained by City Of Englewood.

REMARKS.--The primary record is hourly satellite data with no chart as back up. From May 10 until July 28, satellite data was collected. The gage was visited 13 times with corrections ranging from -.02 to .03 to the satellite record. The record is good. The gage is seasonal and runs typically from June to August. The permanent nature of the flume installation suggests that some permanent level of shift is built into the flume. Record developed by Michael R. Garner.

RATING TABLE.--STD01HFTPF USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

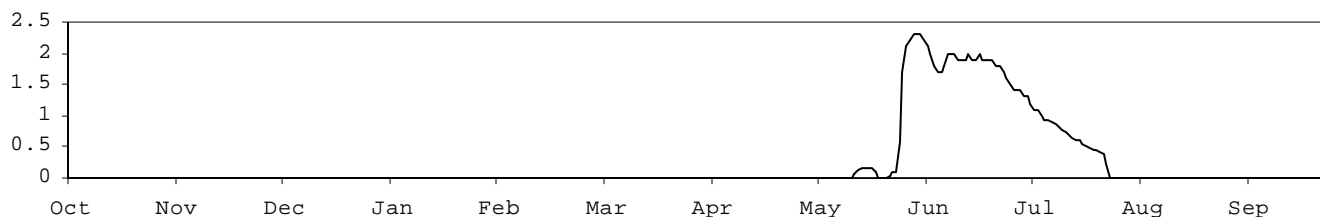
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	2.2	1.4	0	0
2	0	0	0	0	0	0	0	0	2.3	1.4	0	0
3	0	0	0	0	0	0	0	0	2.3	1.4	0	0
4	0	0	0	0	0	0	0	0	2.3	1.3	0	0
5	0	0	0	0	0	0	0	0	2.2	1.3	0	0
6	0	0	0	0	0	0	0	0	2.1	1.2	0	0
7	0	0	0	0	0	0	0	0	2	1.1	0	0
8	0	0	0	0	0	0	0	0	1.8	1.1	0	0
9	0	0	0	0	0	0	0	0	1.7	.99	0	0
10	0	0	0	0	0	0	0	0	1.7	.93	0	0
11	0	0	0	0	0	0	0	0	1.8	.92	0	0
12	0	0	0	0	0	0	0	0	2	.9	0	0
13	0	0	0	0	0	0	0	0	2	.88	0	0
14	0	0	0	0	0	0	0	0	2	.82	0	0
15	0	0	0	0	0	0	0	0	1.9	.77	0	0
16	0	0	0	0	0	0	0	.07	1.9	.73	0	0
17	0	0	0	0	0	0	0	.14	1.9	.69	0	0
18	0	0	0	0	0	0	0	.17	2	.64	0	0
19	0	0	0	0	0	0	0	.15	1.9	.61	0	0
20	0	0	0	0	0	0	0	.15	1.9	.6	0	0
21	0	0	0	0	0	0	0	.15	2	.55	0	0
22	0	0	0	0	0	0	0	.11	1.9	.51	0	0
23	0	0	0	0	0	0	0	.01	1.9	.49	0	0
24	0	0	0	0	0	0	0	0	1.9	.45	0	0
25	0	0	0	0	0	0	0	0	1.9	.44	0	0
26	0	0	0	0	0	0	0	.03	1.8	.43	0	0
27	0	0	0	0	0	0	0	.1	1.8	.4	0	0
28	0	0	0	0	0	0	0	.1	1.7	.21	0	0
29	0	0	0	0	---	0	0	.58	1.6	0	0	0
30	0	0	0	0	---	0	0	1.7	1.5	0	0	0
31	0	---	0	0	---	0	---	2.1	---	0	0	---
TOTAL	0	0	0	0	0	0	0	5.56	57.9	23.16	0	0
MEAN	0	0	0	0	0	0	0	.18	1.9	.75	0	0
AC-FT	0	0	0	0	0	0	0	11	115	46	0	0
MAX	0	0	0	0	0	0	0	2.1	2.3	1.4	0	0
MIN	0	0	0	0	0	0	0	0	1.5	0	0	0

WTR YR 2003 TOTAL 86.62 MEAN .24 MAX 2.3 MIN 0 AC-FT 172

MAX DISCH: 2.59 CFS AT 12:30 ON Jun. 10, 2003 GH 0.63 FT. SHIFT -0.05 FT.

MAX GH: 0.63 FT. AT 12:30 ON Jun. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

09050590 HAROLD D. ROBERTS TUNNEL NEAR GRANT, CO

LOCATION.--Lat 39°27'50", long 105°41'01"; Harold D. Roberts tunnel diverts water from Dillon Reservoir in Blue River basin, to North Fork South Platte River (tributary to South Platte River) in SW¼SW¼ sec. 4, T. 7 S., R. 74 W., in Platte River basin.

GAGE.--A Stevens A-35 graphic stage recorder and Sutron 8210 DCP with digital shaft encoder in a concrete shelter and well at a 20' Parshall Flume. Primary reference is a drop tape with the R.M. on the front edge of the equipment shelf. The Sutron 8210 DCP was converted to High Data Rate on 17 April 2002. Station is owned and maintained by the Denver Water Dept., who also generate power from the tunnel flow.

REMARKS.--The record is taken from hourly satellite data with chart back-up. It is complete and reliable. The recording equipment functions well, even during cold weather, due to a heat lamp installed within the shelter and well. The record is rated as good. Tunnel shutdown on Sept 9, 2003 for regular scheduled maintenance and repair. Tunnel reopened on September 29, 2003 at 0900hrs. Record is developed by Michael R. Garner.

RATING TABLE.--STD20FTPF USED FROM 01-OCT-2002 TO 23-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	91	146	130	130	130	0	0	0	0	117	179
2	33	134	142	130	132	130	0	0	0	0	170	261
3	7.1	153	140	130	134	129	0	0	0	0	199	308
4	7.8	152	140	130	134	129	0	0	0	82	201	365
5	7.8	152	140	130	133	129	0	0	0	151	203	267
6	8.4	152	140	130	133	128	0	14	0	151	231	120
7	26	152	140	130	133	128	0	39	0	151	258	45
8	57	136	140	130	133	129	0	53	0	113	259	0
9	68	129	140	131	131	130	0	74	0	102	223	0
10	68	130	140	131	131	130	47	101	0	102	192	0
11	68	129	140	131	131	130	81	102	0	159	196	0
12	69	129	138	131	130	130	0	47	0	202	197	0
13	72	129	137	129	130	114	64	0	0	162	197	0
14	73	130	135	131	130	101	18	0	0	145	196	0
15	73	130	134	134	130	101	0	0	0	177	196	0
16	73	130	133	134	130	101	0	0	0	201	195	0
17	72	130	133	134	128	101	0	0	51	282	195	0
18	71	130	134	133	130	49	46	0	105	304	219	0
19	72	130	134	133	127	0	85	0	49	261	236	0
20	73	130	134	133	128	0	8.8	0	0	227	234	0
21	73	130	133	133	129	0	6.8	0	0	252	233	0
22	74	137	133	133	130	0	6.3	60	0	317	261	0
23	75	146	133	133	130	0	5.9	65	0	321	277	0
24	75	146	133	133	130	0	5.7	0	0	138	283	0
25	76	147	132	133	130	0	2.9	0	0	324	283	0
26	76	147	131	113	130	0	0	0	57	259	310	0
27	76	146	131	99	130	0	0	0	148	225	328	0
28	75	146	130	99	130	0	0	0	198	214	328	0
29	75	146	130	100	---	0	0	0	199	197	276	48
30	75	146	130	99	---	0	0	0	105	162	233	186
31	75	---	130	115	---	0	---	0	---	101	160	---
TOTAL	1906.1	4115	4206	3915	3657	2119	377.4	555	912	5482	7086	1779
MEAN	61.5	137	136	126	131	68.4	12.6	17.9	30.4	177	229	59.3
AC-FT	3780	8160	8340	7770	7250	4200	749	1100	1810	10870	14060	3530
MAX	82	153	146	134	134	130	85	102	199	324	328	365
MIN	7.1	91	130	99	127	0	0	0	0	0	117	0

WTR YR 2003 TOTAL 36109.5 MEAN 98.9 MAX 365 MIN 0 AC-FT 71620

MAX DISCH: 365 CFS AT 13:45 ON Sep. 3, 2003 GH 2.62 FT. SHIFT 0.04 FT.
MAX GH: 2.62 FT. AT 13:00 ON Jul. 22, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

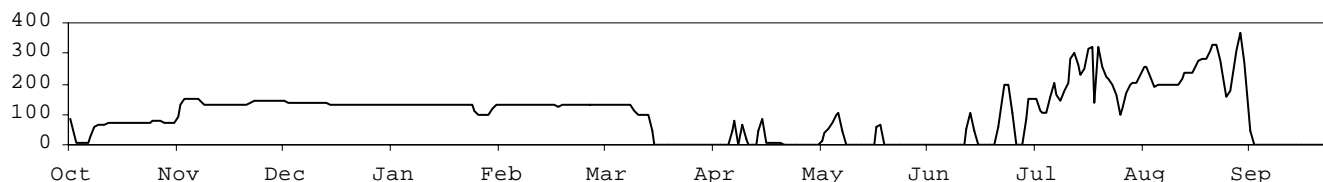


PLATE RIVER BASIN

STRAIGHT CREEK TUNNEL AT EAST PORTAL EISENHOWER TUNNEL

LOCATION.-- Lat 39°40'45", long 105°54'12", manhole is located in the East Portal CDOT parking lot between the East and West bound lanes.

DRAINAGE AREA.--Eisenhower Tunnel seepage with effluent from sewage treatment facility.

GAGE.-- A 12 inch Parshall flume located in a manhole in the CDOT parking lot between eastbound and westbound lanes of I-70. The tunnel pipeline is approximately 12 ft. underground.

REMARKS.--Employees of Coors take one instantaneous gage height reading at intervals during the fair weather months. The parking lot is covered with ice in the winter and such readings are not made. Confined space equipment is used by Coors (Oxygen tester & man-hoist) when taking readings. Coors' safety policies do not allow the use of this equipment by state personnel to check the flume or for state personnel to observe the Coors' readings being made. Gage height readings were made on the following days: October 7, 2002; May 6, 13, 20, 27; June 6, 12, 17, 24; July 1, 21; August 7, 21; September 11. The record is not rated for accuracy. The site does not have continuous record. Yearly data is based on the interpolation of 14 user-supplied instantaneous observations of flow. However, it is noted that weekly observations were made during May and June this year, which seemed to identify the period of higher flows. This record is requested by DWR Division 5 and the Upper Colorado River Commission to complete their accounting of transmountain diversions. Record developed by M. Lee Cunning Jr.

RATING TABLE.--STD01FTPAR USED FROM 01-OCT-2002 TO 31-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

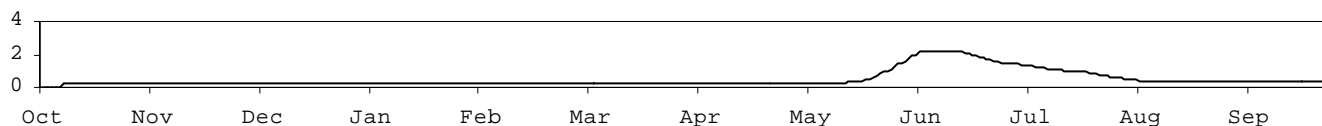
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.25	.25	.25	.27	.27	.27	.27	1.5	1.4	.59	.36
2	.25	.25	.25	.25	.27	.27	.27	.27	1.6	1.4	.56	.35
3	.25	.25	.25	.25	.27	.27	.27	.27	1.8	1.4	.52	.35
4	.25	.25	.25	.25	.27	.27	.27	.27	1.9	1.4	.49	.35
5	.25	.25	.25	.25	.27	.27	.27	.27	2	1.3	.46	.35
6	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.3	.43	.35
7	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.3	.4	.35
8	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.3	.4	.35
9	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.2	.4	.35
10	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.2	.4	.35
11	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.2	.4	.35
12	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.1	.4	.35
13	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.1	.4	.35
14	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.1	.4	.35
15	.25	.25	.25	.25	.27	.27	.27	.27	2.2	1.1	.37	.35
16	.25	.25	.25	.25	.27	.27	.27	.29	2.2	1.1	.37	.35
17	.25	.25	.25	.25	.27	.27	.27	.31	2.2	1	.37	.35
18	.25	.25	.25	.25	.27	.27	.27	.32	2.2	1	.37	.35
19	.25	.25	.25	.25	.27	.27	.27	.34	2.1	.99	.37	.35
20	.25	.25	.25	.25	.27	.27	.27	.35	2.1	.96	.37	.35
21	.25	.25	.25	.27	.27	.27	.27	.37	2	.95	.37	.35
22	.25	.25	.25	.27	.27	.27	.27	.45	1.9	.95	.37	.35
23	.25	.25	.25	.27	.27	.27	.27	.54	1.8	.92	.37	.35
24	.25	.25	.25	.27	.27	.27	.27	.63	1.8	.87	.37	.35
25	.25	.25	.25	.27	.27	.27	.27	.72	1.7	.83	.37	.35
26	.25	.25	.25	.27	.27	.27	.27	.82	1.7	.8	.37	.35
27	.25	.25	.25	.27	.27	.27	.27	.92	1.6	.76	.37	.35
28	.25	.25	.25	.27	.27	.27	.27	1	1.6	.73	.37	.35
29	.25	.25	.25	.27	---	.27	.27	1.1	1.5	.69	.37	.35
30	.25	.25	.25	.27	---	.27	.27	1.2	1.5	.65	.37	.35
31	.25	---	.25	.27	---	.27	---	1.4	---	.62	.37	---
TOTAL	6.25	7.5	7.75	7.97	7.56	8.37	8.1	14.81	58.7	32.62	12.54	10.51
MEAN	.2	.25	.25	.26	.27	.27	.27	.48	2	1.05	.4	.35
AC-FT	12	15	15	16	15	17	16	29	116	65	25	21
MAX	.25	.25	.25	.27	.27	.27	.27	1.4	2.2	1.4	.59	.36
MIN	0	.25	.25	.25	.27	.27	.27	.27	1.5	.62	.37	.35

WTR YR 2003 TOTAL 182.68 MEAN .5 MAX 2.2 MIN 0 AC-FT 362

MAX DISCH: 2.22 CFS AT 00:00 ON Jun. 7, 2003 GH 0 FT. SHIFT 0.68 FT.

MAX GH: 0 FT. AT 00:00 ON Jan. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

09047300 VIDLER TUNNEL NEAR ARGENTINE PASS, CO

LOCATION.--Lat 39°37'28", long 105°47'28", sec.6, T.5 S., R.75 W., Summit County.

DRAINAGE AREA.--N/A

GAGE.--Stevens F-type recorder and digital shaft encoder mounted on a prefabricated steel three-foot Parshall flume. The flume is inside the tunnel, approximately 320 feet from the DCP. The primary reference is the flume staff. An 8004 Sutron data collection platform was installed in 2000.

REMARKS.--The primary record is hourly GH's taken from satellite telemetry with chart backup. The record is complete and reliable. The record is considered good. Record developed by Lee Cunning.

RATING TABLE.--VIDTUNCO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

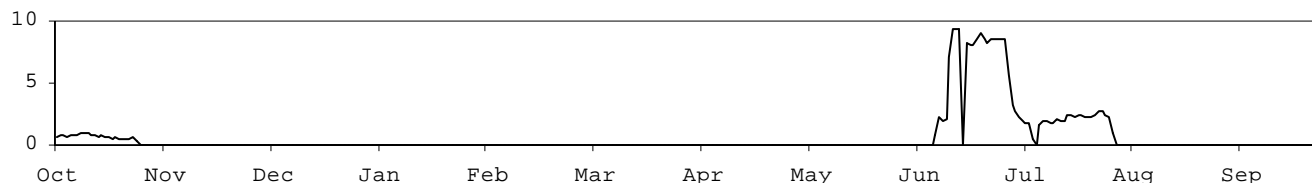
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.6	0	0	0	0	0	0	0	0	8.6	1	0
2	.79	0	0	0	0	0	0	0	0	5.7	0	0
3	.79	0	0	0	0	0	0	0	0	3.3	0	0
4	.71	0	0	0	0	0	0	0	0	2.7	0	0
5	.78	0	0	0	0	0	0	0	0	2.2	0	0
6	.78	0	0	0	0	0	0	0	0	2	0	0
7	.86	0	0	0	0	0	0	0	0	1.8	0	0
8	.91	0	0	0	0	0	0	0	0	1.7	0	0
9	.91	0	0	0	0	0	0	0	0	.41	0	0
10	.89	0	0	0	0	0	0	0	0	0	0	0
11	.86	0	0	0	0	0	0	0	.86	1.6	0	0
12	.79	0	0	0	0	0	0	0	2.2	2	0	0
13	.63	0	0	0	0	0	0	0	2	1.9	0	0
14	.74	0	0	0	0	0	0	0	2.1	1.7	0	0
15	.67	0	0	0	0	0	0	0	7.1	1.8	0	0
16	.68	0	0	0	0	0	0	0	9.3	2.1	0	0
17	.54	0	0	0	0	0	0	0	9.3	2	0	0
18	.58	0	0	0	0	0	0	0	9.3	2	0	0
19	.52	0	0	0	0	0	0	0	9	2.5	0	0
20	.45	0	0	0	0	0	0	0	8.3	2.4	0	0
21	.45	0	0	0	0	0	0	0	8.1	2.2	0	0
22	.5	0	0	0	0	0	0	0	8.1	2.4	0	0
23	.58	0	0	0	0	0	0	0	8.5	2.4	0	0
24	.26	0	0	0	0	0	0	0	9.1	2.2	0	0
25	0	0	0	0	0	0	0	0	8.6	2.2	0	0
26	0	0	0	0	0	0	0	0	8.3	2.2	0	0
27	0	0	0	0	0	0	0	0	8.5	2.5	0	0
28	0	0	0	0	0	0	0	0	8.5	2.8	0	0
29	0	0	0	0	---	0	0	0	8.5	2.7	0	0
30	0	0	0	0	---	0	0	0	8.5	2.5	0	0
31	0	---	0	0	---	0	---	0	---	2.3	0	---
TOTAL	16.27	0	0	0	0	0	0	0	144.16	74.81	1	0
MEAN	.52	0	0	0	0	0	0	0	4.81	2.41	.03	0
AC-FT	.32	0	0	0	0	0	0	0	286	148	2	0
MAX	.91	0	0	0	0	0	0	0	9.3	8.6	1	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 2003 TOTAL 236.24 MEAN .65 MAX 9.3 MIN 0 AC-FT 469

MAX DISCH: 11.8 CFS AT 15:30 ON Jun. 15, 2003 GH 1.04 FT. SHIFT -0.05 FT.

MAX GH: 1.04 FT. AT 15:30 ON Jun. 15, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

09021500 BERTHOUD PASS DITCH AT BERTHOUD PASS, CO

LOCATION.--Lat 39°47'55", long 105°46'35"; Berthoud Pass Ditch diverts water from tributaries of Fraser River between headgate in sec. 33, T. 2 S., R. 75 W., Grand County, and Berthoud Pass, in Colorado River basin, to Hoop Creek, tributary to west fork Clear Creek in sec. 10, T. 3 S., R. 75 W., in Platte River Basin.

GAGE.--A-35 graphic water-stage recorder mounted on 30" cutthroat flume in a 42-inch metal shelter. The stilling well has been divided to accommodate two recorders, one for Ha and one for Hb.

REMARKS.--The primary record is mean daily gage heights taken from the chart. The record is complete and reliable, except for some doubt in the pen setting on the first day in 2003--June 17. The record is good except for June 17 which should be considered fair to poor. Station maintained and record developed by Lee Cunning.

RATING TABLE.--BERDITCO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

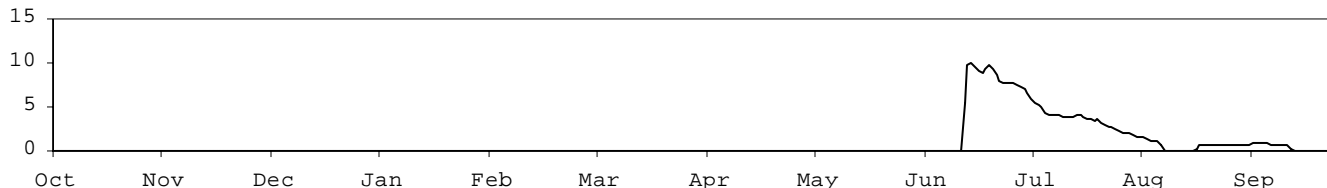
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	7.7	2.1	.58
2	0	0	0	0	0	0	0	0	0	7.4	2	.58
3	0	0	0	0	0	0	0	0	0	7.3	2	.63
4	0	0	0	0	0	0	0	0	0	7	1.8	.63
5	0	0	0	0	0	0	0	0	0	6.7	1.7	.67
6	0	0	0	0	0	0	0	0	0	5.9	1.7	.79
7	0	0	0	0	0	0	0	0	0	5.5	1.6	.91
8	0	0	0	0	0	0	0	0	0	5.2	1.3	.91
9	0	0	0	0	0	0	0	0	0	4.9	1.2	1
10	0	0	0	0	0	0	0	0	0	4.3	1.2	.98
11	0	0	0	0	0	0	0	0	0	4.2	1.2	.85
12	0	0	0	0	0	0	0	0	0	4.2	.61	.63
13	0	0	0	0	0	0	0	0	0	4.1	0	.63
14	0	0	0	0	0	0	0	0	0	4.1	0	.63
15	0	0	0	0	0	0	0	0	0	3.9	0	.63
16	0	0	0	0	0	0	0	0	0	3.8	0	.63
17	0	0	0	0	0	0	0	0	5.5	3.8	0	.63
18	0	0	0	0	0	0	0	0	9.7	3.8	0	.32
19	0	0	0	0	0	0	0	0	9.9	4.1	0	0
20	0	0	0	0	0	0	0	0	9.5	4.2	0	0
21	0	0	0	0	0	0	0	0	9	3.9	0	0
22	0	0	0	0	0	0	0	0	8.9	3.7	.34	0
23	0	0	0	0	0	0	0	0	9.3	3.6	.67	0
24	0	0	0	0	0	0	0	0	9.7	3.3	.67	0
25	0	0	0	0	0	0	0	0	9.3	3.7	.67	0
26	0	0	0	0	0	0	0	0	8.6	3.2	.63	0
27	0	0	0	0	0	0	0	0	7.9	3	.63	0
28	0	0	0	0	0	0	0	0	7.7	2.8	.58	0
29	0	0	0	0	---	0	0	0	7.8	2.8	.63	0
30	0	0	0	0	---	0	0	0	7.8	2.5	.67	0
31	0	---	0	0	---	0	---	0	---	2.3	.63	---
TOTAL	0	0	0	0	0	0	0	0	120.6	136.9	24.53	12.63
MEAN	0	0	0	0	0	0	0	0	4.02	4.4	.79	.42
AC-FT	0	0	0	0	0	0	0	0	239	272	49	25
MAX	0	0	0	0	0	0	0	0	9.9	7.7	2.1	1
MIN	0	0	0	0	0	0	0	0	0	2.3	0	0

WTR YR 2003 TOTAL 294.66 MEAN .81 MAX 9.9 MIN 0 AC-FT 584

MAX DISCH: 11.1 CFS AT 15:00 ON Jun. 18, 2003 GH 1.15 FT. SHIFT 0 FT.
MAX GH: 1.15 FT. AT 15:00 ON Jun. 18, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

09022500 EAST PORTAL MOFFAT TUNNEL NEAR ROLLINSVILLE, CO

LOCATION.--Lat 39°54'16", long 105°38'45"; diverts water from tributaries of William's Fork River and main stem and tributaries of Fraser River in Colorado River basin, to South Boulder Creek, in sec. 2, T.2 S., R.74 W., in Platte River basin, Gilpin County.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder and satellite telemetry in a timber shelter at a concrete stilling well and 15-foot Parshall Flume. A High Data Rate Sutron 8210 having logging capability as well as telephone line access. Electric tape was installed April 18, 2001.

REMARKS.--Primary record is hourly satellite data with chart backup and is complete and reliable. Mean daily gage heights were taken from the charts on days where satellite data was missing and the range in stage was negligible. In addition there were 7 days when satellite data was not complete; therefore some hourly chart values were entered. The flume is not subject to ice as the water is still warm from the tunnel. The graphic chart is changed weekly by Denver Water Department, who has been asked to report on encoder error. Record is good. Station maintained by Denver Water Board and record developed by Lee Cunning.

RATING TABLE.--STD15FTPF USED FROM 01-OCT-2002 TO 13-DEC-2003

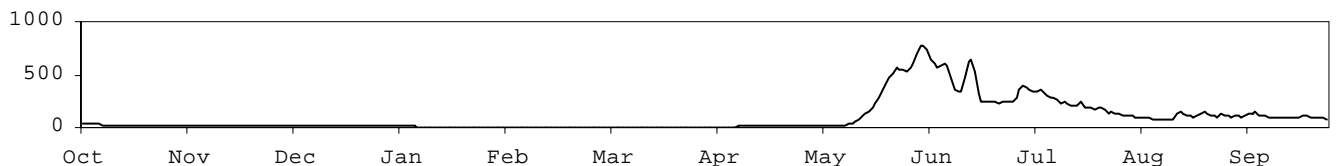
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	20	15	10	8.7	7.5	7.2	22	613	290	115	105
2	29	19	16	10	9	7.5	8	21	693	365	108	98
3	33	15	15	10	8.5	7.8	8.1	20	773	393	115	104
4	29	16	15	9.5	7.6	7.9	7.4	21	776	373	121	111
5	30	14	15	9.8	7.9	7.6	7.1	20	727	352	103	99
6	30	15	15	9.6	8.8	7.6	7	19	643	337	95	113
7	28	16	14	9.2	8.4	7.5	6.9	19	607	346	93	135
8	28	18	14	9.2	8.2	7.5	6.9	20	563	353	97	125
9	26	18	14	8.5	8.5	7.5	7.5	19	578	334	87	158
10	26	17	14	8.6	8.4	7.5	9.2	21	608	299	84	112
11	24	16	13	9.4	8.2	7.2	11	19	591	291	78	117
12	24	14	11	9.1	8.1	7.3	9.8	23	468	275	76	107
13	20	15	11	8.9	8.1	7.5	12	35	355	261	73	101
14	19	16	11	9.1	8.1	7.9	18	47	337	232	70	94
15	18	16	11	9.3	8.3	8.1	19	59	342	236	67	96
16	20	15	11	9.1	8.3	8.4	16	80	480	230	80	101
17	18	15	11	9.4	8.4	8.3	14	121	618	215	132	97
18	18	15	11	9	8.4	6	15	132	637	214	152	102
19	18	15	10	9.2	8.3	4.7	14	148	524	213	131	98
20	17	16	10	9.2	7.8	6.8	13	182	327	251	114	93
21	18	17	11	9.2	7.9	8.2	14	226	244	196	107	88
22	17	16	11	9.1	8.5	7.9	14	290	242	190	103	95
23	22	16	10	9.1	8.9	7.9	13	367	243	180	106	107
24	22	16	10	9	8.8	7.7	11	430	242	161	128	104
25	19	15	10	8.9	8.4	6	16	476	239	180	145	101
26	18	13	9.9	8.9	8.4	5.4	21	507	231	185	130	98
27	21	13	9.8	8.9	8.4	5.1	24	574	237	163	110	96
28	19	14	9.6	8.8	7.5	5.1	23	554	248	138	105	94
29	17	15	10	8.5	---	5.5	24	556	246	147	98	92
30	15	15	9.9	8.7	---	6.2	23	536	243	134	127	67
31	19	---	10	8.7	---	6.4	---	571	---	124	122	---
TOTAL	698	471	368.2	283.9	232.8	219.5	400.1	6135	13675	7658	3272	3108
MEAN	23	16	11.9	9.2	8.3	7.1	13.3	198	456	247	106	104
AC-FT	1380	934	730	563	462	435	794	12170	27120	15190	6490	6160
MAX	36	20	16	10	9	8.4	24	574	776	393	152	158
MIN	15	13	9.6	8.5	7.5	4.7	6.9	19	231	124	67	67

WTR YR 2003 TOTAL 36521.5 MEAN 100 MAX 776 MIN 4.7 AC-FT 72440

MAX DISCH: 821 CFS AT 18:15 ON Jun. 3, 2003 GH 5.25 FT. SHIFT 0 FT.
MAX GH: 5.25 FT. AT 18:15 ON Jun. 3, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

09013000 ALVA B. ADAMS TUNNEL AT EAST PORTAL
NEAR ESTES PARK, COLORADO

LOCATION.--Lat 40°19'40", long 105°34'39", in NW¼ sec. 9, T.3 N., R.75 W.

GAGE.--Water-stage recorder with satellite telemetry in a concrete shelter and well at a 15-foot Parshall flume. DCP is primary record with chart as backup.

REMARKS.--Primary record is hourly data, taken from satellite monitoring with chart back up. The record is complete and reliable. In the winter months a bubble device is used to keep the well open. Record is good. In the past, ADATUNCO (Adams Tunnel plus Wind River diversion) has been published with a remark as to the total amount of Wind River (East slope) water included. Beginning in the 2000 water year, ADANETCO (West slope delivery only) has been published to provide the west slope delivery on a daily basis. Also published are the records for Wind River above Adams Tunnel (WINDESCO) and Wind River below Adams Tunnel (WINBYPCO). Small differences will exist (due to rounding) between ADANETCO and the sum of ADATUNCO minus (WINDESCO - WINBYCO). Station maintained and record developed by Merlin Friedrichsen.

RATING TABLE.--

ADAMS TUNNEL AT EAST PORTAL-COMPUTED FLOW

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

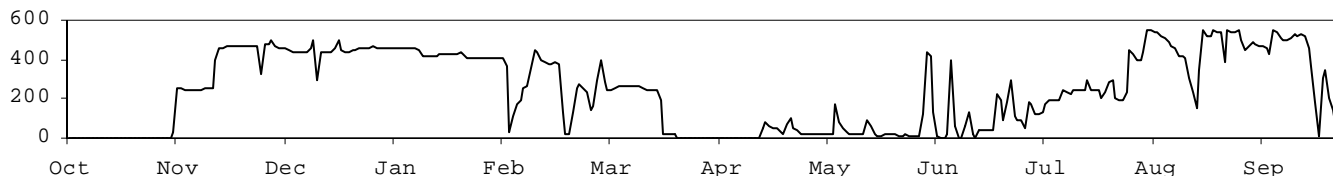
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	252	455	462	403	295	0	22	15	54	430	496
2	0	252	453	461	403	401	0	21	120	185	399	446
3	0	246	448	459	369	282	0	22	441	170	401	470
4	0	247	434	459	35	249	0	22	412	123	434	491
5	0	247	435	459	112	249	0	21	130	124	550	476
6	0	246	435	455	169	256	0	22	6.2	128	546	472
7	0	246	437	454	192	268	0	22	.11	170	542	467
8	0	248	437	454	258	268	0	175	0	194	540	454
9	0	252	453	446	260	266	0	86	20	195	522	432
10	0	255	499	422	352	267	0	48	400	194	512	549
11	0	252	294	413	447	267	0	33	60	193	487	536
12	0	395	441	413	435	267	0	22	.9	240	469	504
13	0	453	441	413	397	266	0	21	1	230	455	496
14	0	458	442	421	382	254	0	21	56	225	421	500
15	0	464	442	432	381	243	0	21	128	244	415	508
16	0	468	459	428	381	246	3.9	21	22	244	410	528
17	0	469	494	428	382	248	55	95	4.9	243	307	523
18	0	469	445	429	374	248	85	63	44	243	230	527
19	0	469	436	430	136	197	63	17	43	292	155	515
20	0	467	435	429	21	22	47	14	43	246	344	453
21	0	467	451	434	20	23	46	14	43	243	553	367
22	0	467	451	419	134	23	39	19	44	242	515	187
23	0	467	456	403	251	23	23	18	228	208	516	7.8
24	0	468	460	409	270	3.4	73	19	196	238	546	309
25	0	326	458	411	254	0	103	19	88	287	544	346
26	0	473	462	411	235	0	54	15	181	297	540	203
27	0	480	463	408	145	0	36	15	293	207	386	147
28	0	495	462	404	159	0	22	16	110	197	547	6.7
29	0	472	461	403	---	0	22	15	93	197	544	6.7
30	0	454	462	404	---	0	22	15	93	233	544	6.6
31	29	---	462	404	---	0	---	15	---	443	548	---
TOTAL	29.37	11424	13863	13277	7357	5131.4	693.9	969	3316.11	6729	14352	11429.8
MEAN	.95	381	447	428	263	166	23.1	31	111	217	463	381
AC-FT	58	22660	27500	26330	14590	10180	1380	1920	6580	13350	28470	22670
MAX	29	495	499	462	447	401	103	175	441	443	553	549
MIN	0	246	294	403	20	0	0	14	0	54	155	6.6

WTR YR 2003 TOTAL 88571.58 MEAN 243 MAX 553 MIN 0 AC-FT 175700

MAX DISCH: Not Determined

MAX GH: Not Determined

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

09010000 GRAND RIVER DITCH AT LA POUVRE PASS, CO

LOCATION.--Lat 40°28'22", long 105°49'17", in NW¼ sec. 21, T.6 N., R.75 W., in Platte River Basin, to La Poudre Pass Creek, tributary to Cache La Poudre River.

GAGE.--F-type water stage recorder with satellite telemetry. The wooden station is located at a 10 foot Parshall flume. A drop tape is the primary reference.

REMARKS.--The primary record is hourly data, taken from satellite monitoring with chart backup. The station remained open in October of 2002 because of the severe drought conditions. The station was closed early in the morning October 15. The ditch had run itself almost dry. Water was run in October of 2002 because of the dry conditions, and the station was closed for the winter on October 15, 2002. May 14-27 was estimated. May 28-31 chart values were used, as the satellite data was not reliable. Unusually high temperatures in late May caused an unexpected amount of runoff. As a result the ditch washed out. A much lower portion of the water available was diverted. Diversion was lower than in any previous year. The record is good except for the estimated days of May 14-27. The record is prepared by George Sievers, with the help from the district water commissioners.

RATING TABLE.--STD10FTPF USED FROM 01-OCT-2002 TO 01-OCT-2003

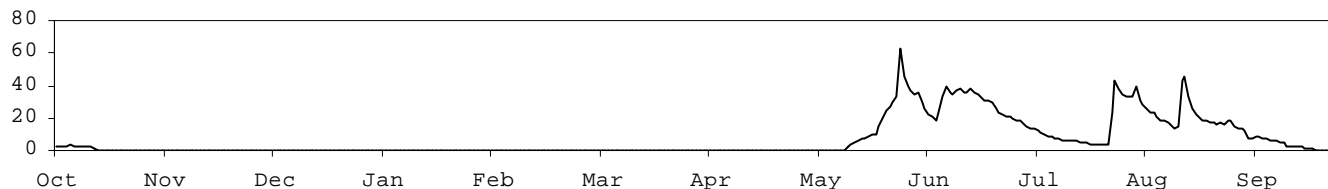
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	0	0	0	0	0	0	0	37	18	33	15
2	2.2	0	0	0	0	0	0	0	34	18	33	14
3	2.6	0	0	0	0	0	0	0	36	16	33	13
4	3	0	0	0	0	0	0	0	30	15	39	12
5	3.1	0	0	0	0	0	0	0	26	14	31	8
6	3	0	0	0	0	0	0	0	22	13	28	7.7
7	2.9	0	0	0	0	0	0	0	21	12	26	8.7
8	2.9	0	0	0	0	0	0	0	19	11	24	8.2
9	2.6	0	0	0	0	0	0	0	23	10	24	7.6
10	2.1	0	0	0	0	0	0	0	33	9.2	21	7.1
11	2	0	0	0	0	0	0	0	39	8.3	19	6.7
12	1	0	0	0	0	0	0	0	36	7.8	18	5.6
13	.59	0	0	0	0	0	0	0	34	7.1	17	6.1
14	.61	0	0	0	0	0	0	3	37	6.5	16	5.3
15	0	0	0	0	0	0	0	4	38	6.1	14	4.7
16	0	0	0	0	0	0	0	5	36	5.6	15	2.2
17	0	0	0	0	0	0	0	6	36	6.5	43	2
18	0	0	0	0	0	0	0	7	38	6	45	2.6
19	0	0	0	0	0	0	0	8	36	5.3	33	2.3
20	0	0	0	0	0	0	0	9	34	5.5	26	2
21	0	0	0	0	0	0	0	10	33	4.8	22	1.8
22	0	0	0	0	0	0	0	10	31	4.3	20	1.6
23	0	0	0	0	0	0	0	15	31	4	19	.68
24	0	0	0	0	0	0	0	20	29	3.8	18	0
25	0	0	0	0	0	0	0	25	26	3.5	17	0
26	0	0	0	0	0	0	0	27	23	3.4	17	0
27	0	0	0	0	0	0	0	30	22	3.1	16	0
28	0	0	0	0	0	0	0	33	21	2.4	17	0
29	0	0	0	0	---	0	0	63	21	4.3	16	0
30	0	0	0	0	---	0	0	45	20	3.8	18	0
31	0	---	0	0	---	0	---	39	---	3.5	19	---
TOTAL	30.5	0	0	0	0	0	0	359	902	367.8	737	144.88
MEAN	.98	0	0	0	0	0	0	11.6	30	11.9	24	4.83
AC-FT	60	0	0	0	0	0	0	712	1790	730	1460	287
MAX	3.1	0	0	0	0	0	0	63	39	4.3	45	15
MIN	0	0	0	0	0	0	0	0	19	3.1	14	0

WTR YR 2003 TOTAL 2541.18 MEAN 6.96 MAX 63 MIN 0 AC-FT 5040

MAX DISCH: 108 CFS AT 20:45 ON May. 29, 2003 GH 1.88 FT. SHIFT 0 FT.
MAX GH: 1.88 FT. AT 20:45 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

06745500 CAMERON PASS DITCH AT CAMERON PASS, CO

LOCATION.--Lat 40°31'14", long 105°53'32"; Diverts water from Michigan River and tributaries, to Joe Wright Creek (tributary to Cache La Poudre River) in sec. 2, T.6 N., R.76 W.

GAGE.--F-type graphic water-stage recorder at a 2 foot Parshall flume with staff gage inside the stilling well in a wooden shelter.

REMARKS.--Primary record is mean daily chart values. These charts are worked by the District 3 deputy water commissioner Mark Simpson and checked by me. Record is good. Water was run from June 10 until July 15, 2003. Station maintained and record developed by George Sievers and Mark Simpson.

RATING TABLE.--CAPDCPC001 USED FROM 10-JUN-2003 TO 15-JUL-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

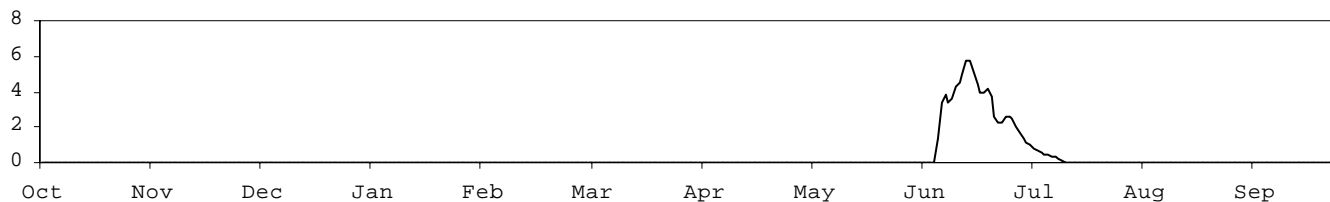
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	2.5	0	0
2	0	0	0	0	0	0	0	0	0	2	0	0
3	0	0	0	0	0	0	0	0	0	1.7	0	0
4	0	0	0	0	0	0	0	0	0	1.3	0	0
5	0	0	0	0	0	0	0	0	0	1.1	0	0
6	0	0	0	0	0	0	0	0	0	.99	0	0
7	0	0	0	0	0	0	0	0	0	.82	0	0
8	0	0	0	0	0	0	0	0	0	.66	0	0
9	0	0	0	0	0	0	0	0	0	.56	0	0
10	0	0	0	0	0	0	0	0	1.3	.47	0	0
11	0	0	0	0	0	0	0	0	3.4	.42	0	0
12	0	0	0	0	0	0	0	0	3.8	.34	0	0
13	0	0	0	0	0	0	0	0	3.4	.3	0	0
14	0	0	0	0	0	0	0	0	3.6	.26	0	0
15	0	0	0	0	0	0	0	0	4.3	.11	0	0
16	0	0	0	0	0	0	0	0	4.5	0	0	0
17	0	0	0	0	0	0	0	0	5	0	0	0
18	0	0	0	0	0	0	0	0	5.8	0	0	0
19	0	0	0	0	0	0	0	0	5.8	0	0	0
20	0	0	0	0	0	0	0	0	5.1	0	0	0
21	0	0	0	0	0	0	0	0	4.4	0	0	0
22	0	0	0	0	0	0	0	0	4	0	0	0
23	0	0	0	0	0	0	0	0	4	0	0	0
24	0	0	0	0	0	0	0	0	4.2	0	0	0
25	0	0	0	0	0	0	0	0	3.7	0	0	0
26	0	0	0	0	0	0	0	0	2.6	0	0	0
27	0	0	0	0	0	0	0	0	2.2	0	0	0
28	0	0	0	0	0	0	0	0	2.2	0	0	0
29	0	0	0	0	---	0	0	0	2.6	0	0	0
30	0	0	0	0	---	0	0	0	2.6	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	78.5	13.53	0	0
MEAN	0	0	0	0	0	0	0	0	2.62	.44	0	0
AC-FT	0	0	0	0	0	0	0	0	156	27	0	0
MAX	0	0	0	0	0	0	0	0	5.8	2.5	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 2003 TOTAL 92.03 MEAN .25 MAX 5.8 MIN 0 AC-FT 183

MAX DISCH: 6.8 CFS AT 14:15 ON Jun. 18, 2003 GH 0.92 FT. SHIFT -0.02 FT.

MAX GH: 0.92 FT. AT 14:15 ON Jun. 18, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

06746000 MICHIGAN DITCH AT CAMERON PASS, CO

LOCATION.--Lat 40°31'14", long 105°53'30"; Diverts water from Michigan River and tributaries, to Joe Wright Creek (tributary to Cache la Poudre River) in sec. 2, T.6 N., R. 76 W.

GAGE.--Weekly graphic water-stage recorder in a fiberglass shelter with a concrete well at 8 foot Parshall flume. The staff in the stilling well is the only reference point. This site was used from October 1, 2002 until June 24, 2003 when the new station upstream across Highway 14 was activated. Winter record is based on data from the Floware unit that the City of Fort Collins installed. This unit is in a heated shelter that is constructed over the flume. A wooden form that greatly reduces the cross section is installed in the flume. This allows all the water to pass through a very small known area.

REMARKS.--The record is mean daily gage heights taken from the chart, and the daily averages taken from the Floware unit: November 6, 2002 to May 26, 2003 is Floware data. May 27 to September 30, 2003 is chart values. May 27, 28 the record was hard to compute because the chart clock was set for 16 days. For May 27 the record is considered poor. All other days are zero flow: October 1-31, November 1-5, 2002. The float bottoms out on the well floor at a gage height of about 0.04 ft. (Old site). The record is considered good, except for the winter period taken from the Floware unit--November 6, 2002 to May 27, 2003--which is poor due to lack of calibration information. Station maintained and record developed by George Sievers and George Varra.

RATING TABLE.--MICDCPC002 USED FROM 27-MAY-2003 TO 01-OCT-2003

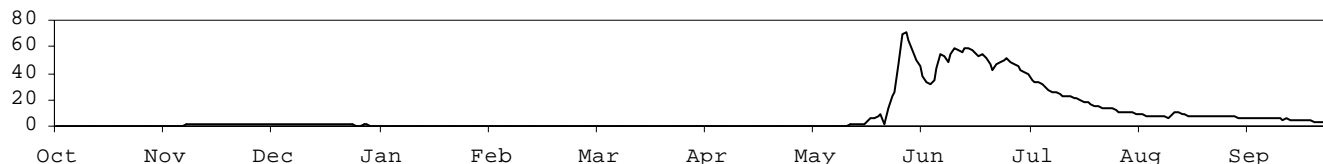
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.1	.65	.44	.33	.27	.19	71	49	11	7
2	0	0	.99	.65	.41	.34	.28	.19	65	47	11	6.8
3	0	0	.97	.66	.46	.36	.26	.2	58	46	11	6.8
4	0	0	.93	.67	.51	.38	.23	.19	50	43	11	6.5
5	0	0	.93	.68	.42	.37	.21	.17	45	41	10	6.2
6	0	.73	.96	.67	.34	.32	.18	.17	38	39	9.5	5.9
7	0	2	.92	.64	.27	.29	.17	.18	33	35	8.9	6.2
8	0	2	.87	.65	.2	.26	.19	.16	32	33	8.6	6.2
9	0	1.8	.84	.67	.22	.26	.22	.15	34	33	8.2	5.9
10	0	1.2	.86	.65	.23	.27	.22	.13	44	31	7.9	6.2
11	0	1.5	.83	.65	.22	.28	.22	.13	54	29	7.6	6.2
12	0	1.6	.79	.62	.22	.27	.23	.16	53	27	7.3	5.9
13	0	1.5	.79	.58	.24	.26	.24	.19	49	26	7.3	5.9
14	0	1.5	.82	.56	.32	.26	.26	.27	54	25	6.8	5.4
15	0	1.3	.84	.58	.32	.27	.25	.39	59	24	6.5	5.4
16	0	1.3	.92	.49	.34	.31	.25	.88	58	22	6.8	5.4
17	0	1.3	.85	.49	.34	.33	.24	1.2	56	22	10	5.1
18	0	1.3	.87	.5	.33	.21	.19	1.2	59	22	11	5.4
19	0	1.2	.83	.48	.32	.17	.19	1.5	59	21	9.2	4.9
20	0	1.2	.88	.45	.32	.15	.2	1.9	57	21	8.6	4.6
21	0	1.1	.85	.44	.32	.15	.2	2.9	54	20	7.9	4.4
22	0	1.1	.83	.41	.32	.14	.21	5.9	53	18	7.9	4.1
23	0	1.2	.81	.36	.31	.17	.18	6	54	18	8.2	4.1
24	0	1.1	.78	.35	.3	.22	.18	7.1	52	16	7.9	4.1
25	0	1.1	.76	.36	.28	.2	.2	8.8	47	15	7.9	3.9
26	0	1.1	.72	.36	.28	.23	.21	2.1	43	15	7.9	3.7
27	0	1.1	.75	.35	.28	.25	.21	13	47	14	7.6	3.7
28	0	1.1	.8	.38	.32	.22	.22	22	48	13	7.3	3.5
29	0	1.1	.79	.39	---	.22	.22	25	50	14	7	3.5
30	0	1.1	.71	.4	---	.21	.2	47	51	13	7.3	3.5
31	0	---	.71	.4	---	.21	---	70	---	12	7.3	---
TOTAL	0	32.53	26.2	16.19	8.88	7.91	6.53	219.35	1527	804	262.4	156.4
MEAN	0	1.08	.85	.52	.32	.26	.22	7.08	51	26	8.5	5.2
AC-FT	0	65	52	32	18	16	13	435	3030	1590	520	310
MAX	0	2	1	.68	.51	.38	.28	70	71	49	11	7
MIN	0	0	.71	.35	.2	.14	.17	.13	32	12	6.5	3.5

WTR YR 2003 TOTAL 3067.39 MEAN 8.4 MAX 71 MIN 0 AC-FT 6080

MAX DISCH: 81 CFS AT 17:30 ON May 31, 2003 GH 1.74 FT. Datum +04 FT.
MAX GH: 1.78 FT. AT 17:30 ON May 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

06746500 SKYLINE DITCH NEAR CHAMBERS LAKE, CO

LOCATION.--Lat 40°39'50", long 105°53'10"; Diverts water from West Branch Laramie River, to Chambers Lake (tributary to Cache la Poudre River) in sec. 31, T.8 N., R.75 W.

GAGE.--F-type graphic water-stage recorder at 10' Parshall flume.

REMARKS.--No water run this water year. Station maintained and record developed by George Sievers.

RATING TABLE.--

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 2003 TOTAL 0 MEAN 0 MAX 0 MIN 0 AC-FT 0

MAX DISCH: 0 CFS

MAX GH: 0 FT.

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

06747000 LARAMIE-POUDRE TUNNEL NEAR CHAMBERS LAKE, CO

LOCATION.--Lat 40°40'34", long 105°50'49"; Laramie-Poudre tunnel diverts water from Laramie River and tributaries to Cache la Poudre River in sec 9, T.8 N., R.75 W.

GAGE.--F-type, graphic water-stage recorder with satellite telemetry at 10' Parshall flume.

REMARKS.--Primary record is hourly GH's, taken from satellite monitoring with chart back up. The record is complete and reliable. The DCP was installed on May 1 because we anticipated the tunnel turning on early. However, the Tunnel wasn't needed until it was started May 25 and shut off the next day on May 26. However, there is no chart for these two days. The demand exceeded the supply on June 4 and the tunnel was turned back on for about 50 cfs. Again, it was shut off on June 7. It came back on June 9, and by June 13 run for what it could produce. It is very difficult to balance the supply with the demand with weather being a huge variable. Record is good. Station maintained and record developed by George Sievers and George Varra.

RATING TABLE.--STD10FTPF USED FROM 01-OCT-2002 TO 18-OCT-2002
 STD10FTPF USED FROM 25-MAY-2003 TO 01-SEP-2003

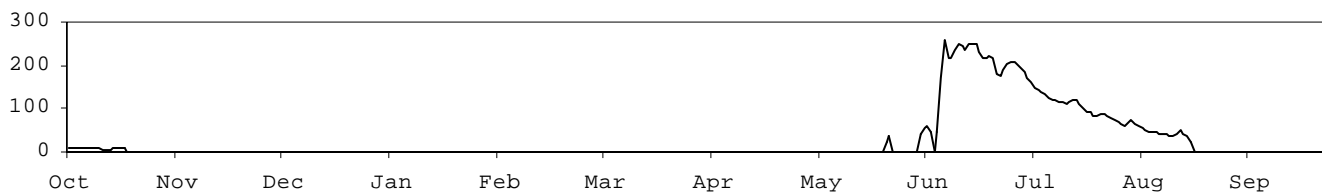
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	0	0	0	0	0	0	0	0	208	63	0
2	9.7	0	0	0	0	0	0	0	0	203	60	0
3	10	0	0	0	0	0	0	0	0	195	68	0
4	11	0	0	0	0	0	0	0	42	184	74	0
5	11	0	0	0	0	0	0	0	55	172	65	0
6	11	0	0	0	0	0	0	0	60	161	58	0
7	11	0	0	0	0	0	0	0	48	146	54	0
8	11	0	0	0	0	0	0	0	0	141	50	0
9	9.5	0	0	0	0	0	0	0	44	140	48	0
10	7.2	0	0	0	0	0	0	0	171	132	46	0
11	5.5	0	0	0	0	0	0	0	257	125	44	0
12	5	0	0	0	0	0	0	0	215	121	43	0
13	6.4	0	0	0	0	0	0	0	218	120	43	0
14	7.2	0	0	0	0	0	0	0	236	116	40	0
15	7.3	0	0	0	0	0	0	0	248	114	37	0
16	7.1	0	0	0	0	0	0	0	245	113	37	0
17	7.3	0	0	0	0	0	0	0	236	117	42	0
18	1.7	0	0	0	0	0	0	0	247	118	50	0
19	0	0	0	0	0	0	0	0	248	122	40	0
20	0	0	0	0	0	0	0	0	248	111	35	0
21	0	0	0	0	0	0	0	0	230	102	23	0
22	0	0	0	0	0	0	0	0	215	94	0	0
23	0	0	0	0	0	0	0	0	218	91	0	0
24	0	0	0	0	0	0	0	0	223	85	0	0
25	0	0	0	0	0	0	0	21	217	85	0	0
26	0	0	0	0	0	0	0	38	180	87	0	0
27	0	0	0	0	0	0	0	0	174	88	0	0
28	0	0	0	0	0	0	0	0	188	81	0	0
29	0	0	0	0	---	0	0	0	202	78	0	0
30	0	0	0	0	---	0	0	0	210	73	0	0
31	0	---	0	0	---	0	---	0	---	68	0	---
TOTAL	147.6	0	0	0	0	0	0	59	4875	3791	1020	0
MEAN	4.76	0	0	0	0	0	0	1.9	163	122	32.9	0
AC-FT	293	0	0	0	0	0	0	117	9670	7520	2020	0
MAX	11	0	0	0	0	0	0	38	257	208	74	0
MIN	0	0	0	0	0	0	0	0	0	68	0	0

WTR YR 2003 TOTAL 9892.6 MEAN 27.1 MAX 257 MIN 0 AC-FT 19620

MAX DISCH: 318 CFS AT 20:30 ON Jun. 11, 2003 GH 3.69 FT. SHIFT 0 FT.
 MAX GH: 3.69 FT. AT 20:30 ON Jun. 11, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

BOB CREEK DITCH NEAR GLENDEVEY, CO

LOCATION.--Lat 40°31'50", long 105°45'40" NESWNW, sec. 11, 9 N., 75 W.

GAGE.--Stevens F-type graphic water-stage recorder in a metal shelter with stilling well at a 3-foot Parshall flume. The staff in the flume is the only reference point.

REMARKS.--Primary record was taken from mean daily chart gage heights. Access to this gage is very difficult and the recorder was set on a 16-day cycle. This makes working the charts difficult. Water diverted from May 15 until July 2, 2003. This record should be considered poor since a compressed chart was used, and the chart calibration was not consistent. Water commissioner George Varra and the City of Greeley employees who set the chart worked the record. Hydrographic staff checked only the peak flow. Record developed by George Sievers.

RATING TABLE.--STD03FTPF USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

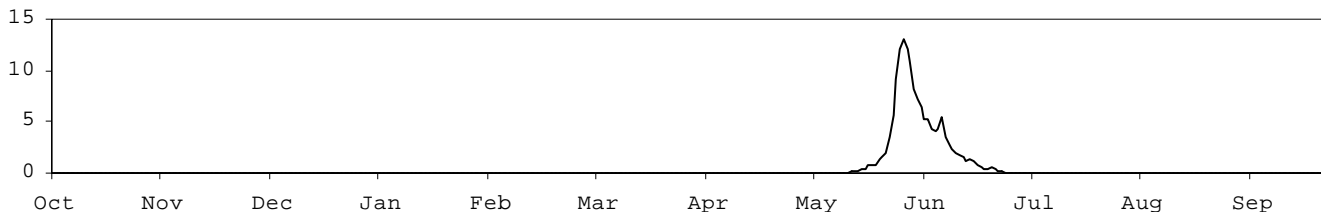
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	12	.04	0	0
2	0	0	0	0	0	0	0	0	11	.02	0	0
3	0	0	0	0	0	0	0	0	8.2	0	0	0
4	0	0	0	0	0	0	0	0	7.3	0	0	0
5	0	0	0	0	0	0	0	0	6.4	0	0	0
6	0	0	0	0	0	0	0	0	5.3	0	0	0
7	0	0	0	0	0	0	0	0	5.2	0	0	0
8	0	0	0	0	0	0	0	0	4.2	0	0	0
9	0	0	0	0	0	0	0	0	4	0	0	0
10	0	0	0	0	0	0	0	0	4.3	0	0	0
11	0	0	0	0	0	0	0	0	5.5	0	0	0
12	0	0	0	0	0	0	0	0	3.6	0	0	0
13	0	0	0	0	0	0	0	0	2.8	0	0	0
14	0	0	0	0	0	0	0	0	2.4	0	0	0
15	0	0	0	0	0	0	0	0	1.9	0	0	0
16	0	0	0	0	0	0	0	.16	1.7	0	0	0
17	0	0	0	0	0	0	0	.24	1.5	0	0	0
18	0	0	0	0	0	0	0	.24	1.2	0	0	0
19	0	0	0	0	0	0	0	.46	1.3	0	0	0
20	0	0	0	0	0	0	0	.46	1.2	0	0	0
21	0	0	0	0	0	0	0	.72	.78	0	0	0
22	0	0	0	0	0	0	0	.72	.57	0	0	0
23	0	0	0	0	0	0	0	.87	.47	0	0	0
24	0	0	0	0	0	0	0	1.3	.44	0	0	0
25	0	0	0	0	0	0	0	1.5	.62	0	0	0
26	0	0	0	0	0	0	0	2	.34	0	0	0
27	0	0	0	0	0	0	0	3.6	.21	0	0	0
28	0	0	0	0	0	0	0	5.7	.12	0	0	0
29	0	0	0	0	---	0	0	9.1	.07	0	0	0
30	0	0	0	0	---	0	0	12	.07	0	0	0
31	0	---	0	0	---	0	---	13	---	0	0	---
TOTAL	0	0	0	0	0	0	0	52.07	94.69	.06	0	0
MEAN	0	0	0	0	0	0	0	1.68	3.16	0	0	0
AC-FT	0	0	0	0	0	0	0	103	188	.1	0	0
MAX	0	0	0	0	0	0	0	13	12	.04	0	0
MIN	0	0	0	0	0	0	0	0	.07	0	0	0

WTR YR 2003 TOTAL 146.82 MEAN .4 MAX 13 MIN 0 AC-FT 291

MAX DISCH: 17.4 CFS AT 15:30 ON May 31, 2003 GH 1.22 FT. SHIFT .05 (1.06%)

MAX GH: 1.26 FT. AT 15:30 ON May 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

DEADMAN DITCH NEAR DEADMAN PARK, CO

LOCATION.--Lat 40°50'04", long 105°48'05", sec. 9, T. 10 N., R. 75 W., Diverts water from Laramie River and tributaries, to Sheep Creek (tributary to Cache La Poudre River) via Sand Creek.

GAGE.--F-type graphic water-stage recorder at a 6 foot Parshall flume. The recorder is in a steel shelter and the gage is referenced with an outside staff gage in the flume.

REMARKS.--The primary record is mean daily gage heights from the chart. The record is complete and reliable. The gage height record is worked by the district 3 water commissioner, George Varra, and checked by me. Record is good. Water was run from June 18, until June 29, 2003. Station maintained and record developed by George Sievers.

RATING TABLE.--DEADDP001 USED FROM 18-JUN-2003 TO 29-JUN-2003

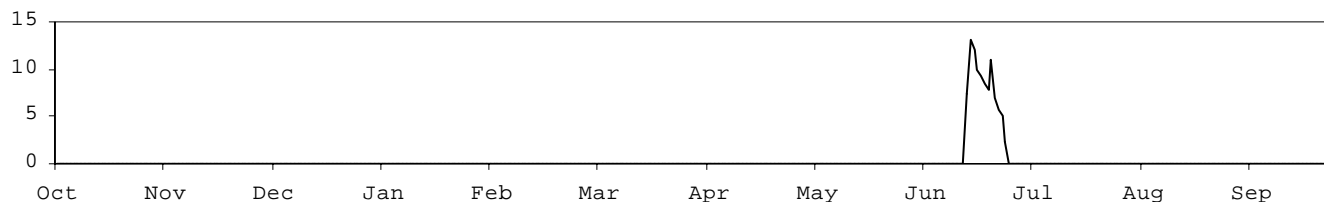
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	7.3	0	0	0
19	0	0	0	0	0	0	0	0	13	0	0	0
20	0	0	0	0	0	0	0	0	12	0	0	0
21	0	0	0	0	0	0	0	0	10	0	0	0
22	0	0	0	0	0	0	0	0	9.3	0	0	0
23	0	0	0	0	0	0	0	0	8.5	0	0	0
24	0	0	0	0	0	0	0	0	7.9	0	0	0
25	0	0	0	0	0	0	0	0	11	0	0	0
26	0	0	0	0	0	0	0	0	7	0	0	0
27	0	0	0	0	0	0	0	0	5.8	0	0	0
28	0	0	0	0	0	0	0	0	5.1	0	0	0
29	0	0	0	0	---	0	0	0	2.3	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	99.2	0	0	0
MEAN	0	0	0	0	0	0	0	0	3.31	0	0	0
AC-FT	0	0	0	0	0	0	0	0	197	0	0	0
MAX	0	0	0	0	0	0	0	0	13	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 2003 TOTAL 99.2 MEAN .27 MAX 13 MIN 0 AC-FT 197

MAX DISCH: 14.2 CFS AT 00:30 ON Jun. 19, 2003 GH 0.72 FT. SHIFT 0 FT.
MAX GH: 0.72 FT. AT 00:30 ON Jun. 19, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

PLATTE RIVER BASIN

06750500 WILSON SUPPLY DITCH NEAR EATON RESERVOIR, CO

LOCATION.--Lat 40°54'31", long 105°46'43"; Diverts water from Sand Creek and Deadman Creek in Laramie River basin to Sheep Creek (tributary to North Fork Cache la Poudre River) in sec. 23, T.11 N., R.75 W., in the Cache la Poudre River basin.

GAGE.--F-type, graphic water-stage recorder at 10' Parshall flume. Satellite telemetry was added in the spring of 1994. Gage is referenced with an IG drop tape.

REMARKS.--Primary record is the hourly data taken from satellite monitoring, with the chart as a back up. The data is complete and reliable. The recorder was the only source of record for May 18, 19, and 20. The satellite equipment was installed on May 21, but the transmissions were set for 15minute data, and the decoding was set for hourly data. The decoding was fixed to decode properly the next day on May 22. Water Commissioner George Varra works the chart record, and his figures are used as a check for the published figures developed from the DCP data. Record is good. Chart values were used May 18-20, and there was no chart for June 30. Water was run from May 18 until June 30 when the ditch was shut off. Station maintained and record developed by George Sievers.

RATING TABLE.--WSDEARCO02 USED FROM 01-MAY-2003 TO 01-JUL-2003

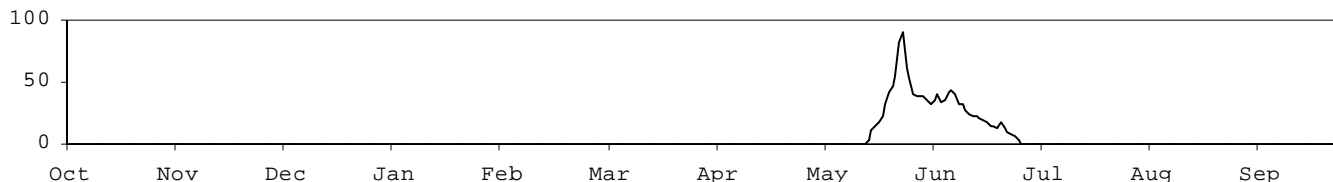
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	38	0	0	0
2	0	0	0	0	0	0	0	0	38	0	0	0
3	0	0	0	0	0	0	0	0	38	0	0	0
4	0	0	0	0	0	0	0	0	35	0	0	0
5	0	0	0	0	0	0	0	0	33	0	0	0
6	0	0	0	0	0	0	0	0	35	0	0	0
7	0	0	0	0	0	0	0	0	40	0	0	0
8	0	0	0	0	0	0	0	0	34	0	0	0
9	0	0	0	0	0	0	0	0	36	0	0	0
10	0	0	0	0	0	0	0	0	42	0	0	0
11	0	0	0	0	0	0	0	0	43	0	0	0
12	0	0	0	0	0	0	0	0	41	0	0	0
13	0	0	0	0	0	0	0	0	33	0	0	0
14	0	0	0	0	0	0	0	0	32	0	0	0
15	0	0	0	0	0	0	0	0	28	0	0	0
16	0	0	0	0	0	0	0	0	25	0	0	0
17	0	0	0	0	0	0	0	0	22	0	0	0
18	0	0	0	0	0	0	0	3.8	23	0	0	0
19	0	0	0	0	0	0	0	12	21	0	0	0
20	0	0	0	0	0	0	0	14	20	0	0	0
21	0	0	0	0	0	0	0	17	18	0	0	0
22	0	0	0	0	0	0	0	23	15	0	0	0
23	0	0	0	0	0	0	0	32	14	0	0	0
24	0	0	0	0	0	0	0	42	13	0	0	0
25	0	0	0	0	0	0	0	46	18	0	0	0
26	0	0	0	0	0	0	0	55	13	0	0	0
27	0	0	0	0	0	0	0	82	9.8	0	0	0
28	0	0	0	0	0	0	0	91	8.3	0	0	0
29	0	0	0	0	---	0	0	61	7.2	0	0	0
30	0	0	0	0	---	0	0	54	3.7	0	0	0
31	0	---	0	0	---	0	---	41	---	0	0	---
TOTAL	0	0	0	0	0	0	0	573.8	777	0	0	0
MEAN	0	0	0	0	0	0	0	18.5	25.9	0	0	0
AC-FT	0	0	0	0	0	0	0	1140	1540	0	0	0
MAX	0	0	0	0	0	0	0	91	43	0	0	0
MIN	0	0	0	0	0	0	0	0	3.7	0	0	0

WTR YR 2003 TOTAL 1350.8 MEAN 3.7 MAX 91 MIN 0 AC-FT 2680

MAX DISCH: 163 CFS AT 15:35 ON May. 28, 2003 GH 2.43 FT. SHIFT 0 FT.
MAX GH: 2.43 FT. AT 15:35 ON May. 28, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



REPUBLICAN RIVER BASIN

PIONEER DITCH AT HEADGATE NEAR LAIRD, CO

LOCATION.--Lat 40°05'05", long 102°08'30", SW¼NE¼ sec. 2, T.1 N., R.43 W., Yuma County, 4 mi east of Wray, Co., 1000 ft south of U.S. Highway 34.

DRAINAGE AREA.--N/A

GAGE.--Type-F weekly graphic recorder and a high data rate Satellite Monitoring DCP, in metal box enclosure and well section at a 5-foot Parshall flume. The flume is installed in concrete canal section and is referenced with an outside staff.

REMARKS.--The record is taken from hourly satellite readings, with chart back up. The record is complete and reliable. The canal was off from November 1, 2002, to April 13, 2003. The record is supported by daily calibration visits recorded on visit sheets. Nine encoder adjustments of 0.02 ft. or less were applied to the record--each datum correction only needed to apply back a day or two. In general the satellite record by itself was 99% complete and there was no significant loss of chart recorder record. The record is good. Record developed by Robert Cooper.

RATING TABLE.--STD05FTPF USED FROM 01-OCT-2002 TO 01-NOV-2002
 STD05FTPF USED FROM 14-APR-2003 TO 30-SEP-2003

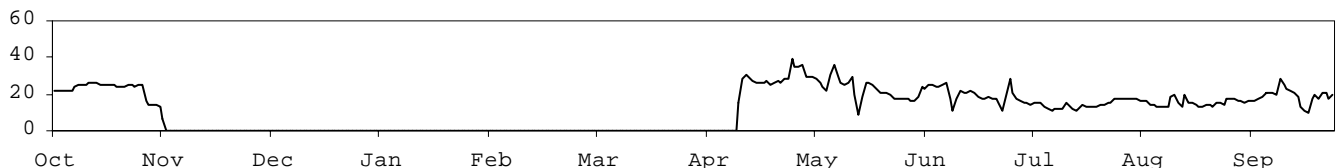
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	6.2	0	0	0	0	0	35	17	21	18	17
2	22	0	0	0	0	0	0	36	16	17	17	17
3	22	0	0	0	0	0	0	30	16	16	17	16
4	22	0	0	0	0	0	0	30	19	15	17	16
5	22	0	0	0	0	0	0	29	24	15	17	15
6	22	0	0	0	0	0	0	28	23	14	16	16
7	24	0	0	0	0	0	0	26	25	15	16	16
8	25	0	0	0	0	0	0	24	25	15	16	16
9	25	0	0	0	0	0	0	22	24	15	14	17
10	25	0	0	0	0	0	0	31	24	13	14	19
11	26	0	0	0	0	0	0	36	25	12	13	21
12	26	0	0	0	0	0	0	30	26	11	13	21
13	26	0	0	0	0	0	0	26	18	12	13	21
14	25	0	0	0	0	0	15	25	11	12	13	20
15	25	0	0	0	0	0	28	26	18	12	19	28
16	25	0	0	0	0	0	31	30	22	15	20	25
17	25	0	0	0	0	0	28	20	21	14	15	23
18	25	0	0	0	0	0	27	9.2	21	12	13	22
19	24	0	0	0	0	0	26	19	22	11	20	21
20	24	0	0	0	0	0	26	26	21	13	15	19
21	24	0	0	0	0	0	26	26	19	14	15	13
22	25	0	0	0	0	0	27	25	18	13	14	11
23	25	0	0	0	0	0	25	23	18	13	13	10
24	24	0	0	0	0	0	26	21	19	13	13	18
25	25	0	0	0	0	0	27	21	17	13	14	20
26	25	0	0	0	0	0	26	21	17	14	14	18
27	16	0	0	0	0	0	28	20	15	14	13	21
28	14	0	0	0	0	0	28	18	11	15	15	21
29	14	0	0	0	---	0	39	17	20	15	15	18
30	14	0	0	0	---	0	35	17	28	18	14	20
31	13	---	0	0	---	0	---	17	---	17	17	---
TOTAL	701	6.2	0	0	0	0	468	764.2	600	439	473	556
MEAN	23	.21	0	0	0	0	15.6	24.7	20	14	15	19
AC-FT	1390	12	0	0	0	0	928	1520	1190	871	938	1100
MAX	26	6.2	0	0	0	0	39	36	28	21	20	28
MIN	13	0	0	0	0	0	0	9.2	11	11	13	10

WTR YR 2003 TOTAL 4007.4 MEAN 11 MAX 39 MIN 0 AC-FT 7950

MAX DISCH: 47.7 CFS AT 18:15 ON Apr. 29, 2003 GH 1.82 FT. SHIFT -0.09 FT.
 MAX GH: 1.82 FT. AT 18:15 ON Apr. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



REPUBLICAN RIVER BASIN

PIONEER DITCH AT COLORADO-NEBRASKA STATE LINE

LOCATION.--Lat 40°03'25", long 102°03'10", SW¼SW¼ sec. 10, T.1 N., R.42 W., Yuma County; 1200 ft south of U.S. Highway 34 at Colorado/Nebraska State line.

DRAINAGE AREA.--N/A

GAGE.--Type-F graphic water-stage recorder and a Sutron High Data Rate DCP in metal box and well. The site is equipped with a 4-foot Parshall Flume with two outside vertical enameled steel staffs (Ha-Hb, with the Hb staff set with 4.0 ft = 0.0). The Ha staff is the primary reference. Station maintained by Pioneer Ditch Company.

REMARKS.--The record is hourly data taken from satellite monitoring, with the chart as back-up. The record is complete and reliable. The ditch did not run November 2, 2002 through April 13, 2003. During April 14-30, no chart was installed, but the DCP record was complete. A few small datum corrections were applied, using comparison with the chart and water commissioner visits to guide the proration. The largest correction (+0.04) was used for the period from April 21 to May 1 when the water commissioner was not yet visiting the gage and no chart had been installed. The encoder was assumed to have been set correctly by the ditchrider on April 21 when the ditch was started, and left alone until the water commissioner corrected it +0.04 when he began on May 1. Hourly chart data was used June 26-30 when the Encoder float tape slipped from the pulley and the encoder was not following the chart. The record is Good. Record developed by Robert Cooper.

RATING TABLE.--STD04FTPF USED FROM 01-OCT-2002 TO 01-NOV-2002
 STD04FTPF USED FROM 14-APR-2003 TO 30-SEP-2003

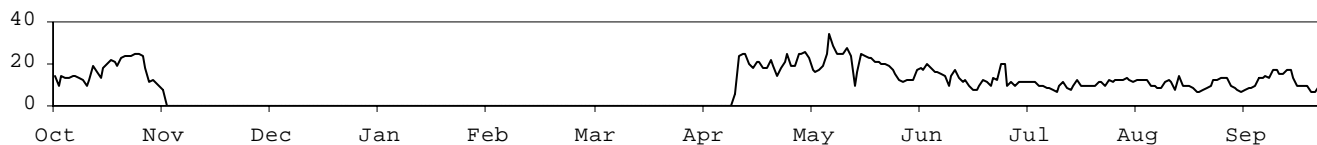
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	7.2	0	0	0	0	0	19	11	9.8	12	13
2	10	0	0	0	0	0	0	25	12	11	12	13
3	14	0	0	0	0	0	0	25	12	9.2	12	10
4	13	0	0	0	0	0	0	26	12	11	13	8.5
5	13	0	0	0	0	0	0	23	17	11	12	7.5
6	14	0	0	0	0	0	0	17	18	11	11	7.1
7	14	0	0	0	0	0	0	16	17	11	12	7.6
8	13	0	0	0	0	0	0	17	20	11	12	8.2
9	12	0	0	0	0	0	0	19	18	11	12	8.6
10	10	0	0	0	0	0	0	25	16	10	12	10
11	12	0	0	0	0	0	0	34	16	9.2	10	13
12	19	0	0	0	0	0	0	29	15	8.3	9.3	13
13	16	0	0	0	0	0	0	25	14	8.4	8.7	14
14	13	0	0	0	0	0	5.7	25	9.9	7.6	8.8	13
15	18	0	0	0	0	0	24	25	14	6.9	11	17
16	20	0	0	0	0	0	25	28	17	10	12	17
17	22	0	0	0	0	0	25	24	13	11	11	15
18	21	0	0	0	0	0	20	10	11	8.2	7.3	15
19	19	0	0	0	0	0	18	16	12	7.8	14	17
20	23	0	0	0	0	0	21	25	10	10	9.1	17
21	24	0	0	0	0	0	21	24	8	12	9.7	13
22	24	0	0	0	0	0	18	23	7.8	10	9.8	9.5
23	24	0	0	0	0	0	18	23	9.2	9.9	8.1	9.5
24	25	0	0	0	0	0	22	21	12	9.7	6.8	10
25	25	0	0	0	0	0	19	21	11	9.5	7.1	9.5
26	24	0	0	0	0	0	14	20	9.8	10	8	6.5
27	18	0	0	0	0	0	18	20	13	11	8.4	6.2
28	11	0	0	0	0	0	21	19	12	11	9.7	9.4
29	12	0	0	0	---	0	25	17	20	10	12	8.4
30	11	0	0	0	---	0	19	15	20	12	12	9.2
31	9.8	---	0	0	---	0	---	12	---	11	13	---
TOTAL	517.8	7.2	0	0	0	0	333.7	668	407.7	309.5	325.8	335.7
MEAN	16.7	.24	0	0	0	0	11.1	22	13.6	10	10.5	11.2
AC-FT	1030	14	0	0	0	0	662	1320	809	614	646	666
MAX	25	7.2	0	0	0	0	25	34	20	12	14	17
MIN	9.8	0	0	0	0	0	0	10	7.8	6.9	6.8	6.2

WTR YR 2003 TOTAL 2905.4 MEAN 7.96 MAX 34 MIN 0 AC-FT 5760

MAX DISCH: 33.9 CFS AT 01:15 ON May. 11, 2003 GH 1.53 FT. SHIFT 0.08 FT.
 MAX GH: 1.53 FT. AT 01:15 ON May. 11, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07082500 LAKE FORK CREEK BELOW SUGAR LOAF DAM NEAR LEADVILLE, CO

LOCATION.--Lat 39°15'05" long 106°22'28", Lake County, SE¼NW¼NW¼ sec. 19, T.9 S., R.80 W., on right bank 4.2 miles upstream from junction of Lake Fork Creek and Arkansas River.

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8004) and shaft encoder in 42-inch diameter corrugated metal pipe (CMP) shelter and concrete well. Shaft encoder and chart set to inside electric tape gage mounted on instrument shelf. Satellite data are primary record (graphic chart record is used for back-up purposes). Outside staff gage also used for reference purpose. Shelter is equipped with AC power for well heater. Control is a concrete weir with ogee lip, tapered lower from the left to right bank, located at the gage. A Sutron Satlink DCP with high data rate satellite transmitter was installed July 29, 2003. Elevation of gage datum 9,720 ft. from topographic map.

REMARKS.--Record is complete and reliable for the entire year. Record good. The control was refurbished on Oct. 9, 2003 by adding a 0.5 ft thick x 5 foot wide x 38 ft length concrete apron (for measuring section) and a 1 ft x 1ft x 38 ft concrete cutoff wall upstream of the existing concrete structure. Leakage below the old control has attenuated, and a much improved and more accurate measuring section has been facilitated. Station maintained and record developed by L.R. Schultz.

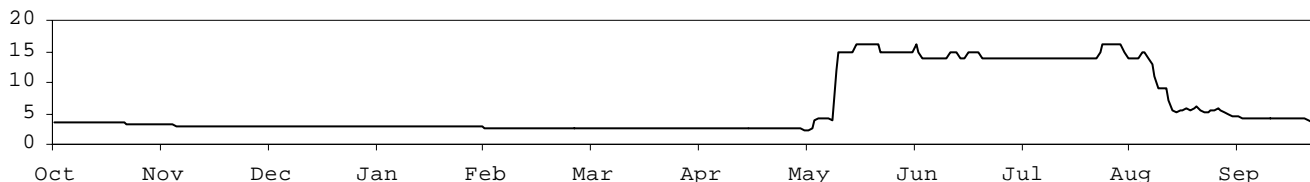
RATING TABLE.--LFCBSLC004 USED FROM 01-OCT-2002 TO 02-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.1	2.9	2.9	2.9	2.6	2.6	2.6	15	14	16	5.7
2	3.4	3.1	2.9	2.9	2.7	2.6	2.6	2.6	15	14	16	5.5
3	3.4	3.1	2.9	2.9	2.6	2.6	2.6	2.6	15	14	16	5.1
4	3.4	3.1	2.9	2.9	2.6	2.6	2.6	2.6	15	14	16	4.8
5	3.4	2.9	2.9	2.9	2.6	2.6	2.6	2.3	15	14	15	4.6
6	3.4	2.9	2.9	2.9	2.6	2.6	2.6	2.1	16	14	14	4.5
7	3.4	2.9	2.9	2.9	2.6	2.6	2.6	2.7	15	14	14	4.5
8	3.4	2.9	2.9	2.9	2.6	2.6	2.6	4	14	14	14	4.3
9	3.4	2.9	2.9	2.9	2.6	2.6	2.6	4.3	14	14	14	4.3
10	3.4	2.9	2.9	2.9	2.6	2.6	2.6	4.3	14	14	15	4.3
11	3.4	2.9	2.9	2.9	2.6	2.6	2.6	4.3	14	14	15	4.3
12	3.4	2.9	2.9	2.9	2.6	2.6	2.6	4.3	14	14	14	4.3
13	3.4	2.9	2.9	2.9	2.6	2.6	2.6	4	14	14	13	4.3
14	3.4	2.9	2.9	2.9	2.6	2.6	2.6	12	14	14	11	4.3
15	3.4	2.9	2.9	2.9	2.6	2.6	2.6	15	14	14	9	4.3
16	3.4	2.9	2.9	2.9	2.6	2.6	2.6	15	15	14	9	4.3
17	3.4	2.9	2.9	2.9	2.6	2.6	2.6	15	15	14	9	4.3
18	3.4	2.9	2.9	2.9	2.6	2.6	2.6	15	15	14	7	4.3
19	3.4	2.9	2.9	2.9	2.6	2.6	2.6	15	14	14	5.5	4.3
20	3.4	2.9	2.9	2.9	2.6	2.6	2.6	16	14	14	5.3	4.3
21	3.4	2.9	2.9	2.9	2.6	2.6	2.6	16	15	14	5.4	4.3
22	3.1	2.9	2.9	2.9	2.6	2.6	2.6	16	15	14	5.6	4.3
23	3.1	2.9	2.9	2.9	2.6	2.6	2.6	16	15	14	5.7	4.3
24	3.1	2.9	2.9	2.9	2.6	2.6	2.6	16	15	14	5.5	4.3
25	3.1	2.9	2.9	2.9	2.6	2.6	2.6	16	14	14	5.7	4.3
26	3.1	2.9	2.9	2.9	2.6	2.6	2.6	16	14	14	6	4.1
27	3.1	2.9	2.9	2.9	2.6	2.6	2.6	15	14	14	5.6	3.8
28	3.1	2.9	2.9	2.9	2.6	2.6	2.6	15	14	14	5.3	3.4
29	3.1	2.9	2.9	2.9	---	2.6	2.6	15	14	15	5.3	3.4
30	3.1	2.9	2.9	2.9	---	2.6	2.6	15	14	16	5.5	3.7
31	3.1	---	2.9	2.9	---	2.6	---	15	---	16	5.4	---
TOTAL	102.4	87.8	89.9	89.9	73.2	80.6	78	316.7	435	439	308.8	130.5
MEAN	3.3	2.9	2.9	2.9	2.6	2.6	2.6	10.2	15	14	10	4.4
AC-FT	203	174	178	178	145	160	155	628	863	871	613	259
MAX	3.4	3.1	2.9	2.9	2.9	2.6	2.6	16	16	16	16	5.7
MIN	3.1	2.9	2.9	2.9	2.6	2.6	2.6	2.1	14	14	5.3	3.4
CAL YR 2002	TOTAL	2208.2	MEAN	6.05	MAX	16	MIN	2.9	AC-FT	4380		
WTR YR 2003	TOTAL	2231.8	MEAN	6.11	MAX	16	MIN	2.1	AC-FT	4430		

MAX DISCH: 16.5 CFS AT 11:00 ON May. 24, 2003 GH 0.5 FT. SHIFT 0.02 FT. DATUM CORRECTION 0.02 FT.
MAX GH: 0.5 FT. AT 11:00 ON May. 24, 2003 DATUM CORRECTION 0.02 FT.

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07084500 LAKE CREEK ABOVE TWIN LAKES RESERVOIR, CO

LOCATION.--Lat 39°03'47", long 106°24'26", Lake County, Hydrologic Unit 11020001, on left bank 1.2 mi upstream from water line of Twin Lakes Reservoir at elevation 9,200 ft and 1.9 mi southwest of village of Twin Lakes.

DRAINAGE AREA AND PERIOD OF RECORD.--75 mi². April 1946 to Sept. 1962, Oct. 1963 to current year. Monthly data only for some periods.

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8004 DCP) and shaft encoder in 36-inch diameter corrugated metal pipe (CMP) shelter and well. Shaft encoder and chart set to inside drop tape gage with adjustable RP on instrument shelf. Satellite-monitored data are primary record (graphic chart record is used for back-up purposes). Cableway approximately 15 feet downstream from gage. Elevation of gage is 9,310 ft. Prior to May 20, 1950, at site 190 ft downstream, at different datum. May 20, 1950, to Apr. 7, 1953, at site 10 ft upstream, at present datum.

REMARKS.--Record is complete and reliable except for the following periods: Oct. 29-31; Nov. 1,2,2002, when ice affected the stage discharge relationship; Nov. 3, 2002 to April 14, 2003, when the station was closed for the winter. Record good, except during periods of no gage height record and ice effect, which is poor. Record developed and station maintained by L.R. Schultz.

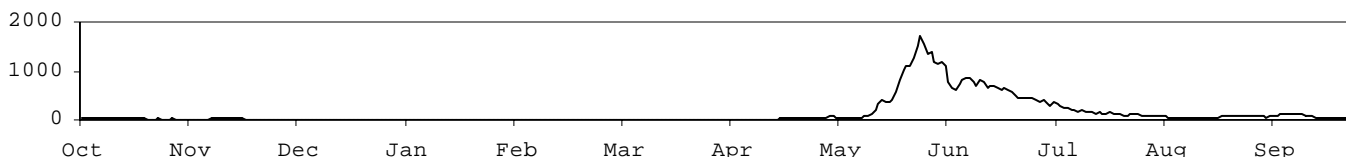
RATING TABLE.--LAKATLCO21 USED FROM 01-OCT-2002 TO 01-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	18	17	11	13	8	10	34	1370	397	93	68
2	29	17	16	11	12	7	10	35	1190	350	90	63
3	31	16	16	12	10	8	10	65	1140	419	82	65
4	28	15	15	12	9	8	10	64	1170	359	80	63
5	28	15	15	12	8	7	10	55	1120	286	69	59
6	26	16	14	11	7.5	8	10	50	763	372	73	69
7	30	23	14	10	7	8	10	47	647	307	66	84
8	39	24	12	10	7	8	11	47	611	279	47	97
9	40	24	11	10	7	8	12	46	715	231	44	111
10	42	23	11	10	7	8	14	45	803	255	43	128
11	35	22	11	9.5	8	9	15	32	870	199	43	119
12	32	21	11	9	9	9	16	41	855	198	43	112
13	30	22	12	10	9	10	17	80	793	177	46	137
14	31	22	12	11	9	10	18	95	713	186	42	113
15	30	21	13	11	9	10	19	130	814	162	39	103
16	27	21	13	10	9	10	18	188	791	153	39	98
17	28	17	12	10	9	9	18	319	668	150	47	87
18	27	13	11	11	9	9	19	418	703	142	49	66
19	21	13	10	11	9	9	21	355	712	144	51	57
20	19	13	11	12	9	9	22	375	660	130	48	53
21	19	14	11	12	9	9	48	428	630	123	54	51
22	19	15	10	12	9	10	42	569	637	143	54	49
23	21	15	10	12	8	10	22	806	623	124	63	47
24	20	17	10	12	8	9	21	1010	582	118	66	45
25	19	16	10	12	8	9	21	1120	504	114	74	43
26	19	15	10	13	8	9	25	1100	459	96	79	41
27	21	15	12	13	8	8	31	1250	468	83	63	40
28	19	16	12	13	8	8	58	1510	464	120	81	38
29	17	16	12	12	---	8	48	1710	453	119	74	36
30	19	16	11	12	---	9	35	1560	432	103	81	34
31	20	---	12	13	---	10	---	1340	---	95	78	---
TOTAL	813	531	377	349.5	242.5	271	641	14924	22360	6134	1901	2176
MEAN	26	18	12	11.3	8.7	8.7	21	481	745	198	61	73
AC-FT	1610	1050	748	693	481	538	1270	29600	44350	12170	3770	4320
MAX	42	24	17	13	13	10	58	1710	1370	419	93	137
MIN	17	13	10	9	7	7	10	32	432	83	39	34
CAL YR 2002	TOTAL	22680.8	MEAN	62.1	MAX	637	MIN	8	AC-FT	44990		
WTR YR 2003	TOTAL	50720	MEAN	139	MAX	1710	MIN	7	AC-FT	100600		

MAX DISCH: 2360 CFS AT 20:45 ON May. 29, 2003 GH 4.16 FT. SHIFT -0.65 FT.
MAX GH: 4.16 FT. AT 20:45 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

LAKE CREEK BELOW TWIN LAKES RESERVOIR, CO

LOCATION.--Lat 39°04'34", long 106°18'35", in NE¼SE¼, sec. 22, T.11 S., R. 80 W., Lake County, on right bank 1.2 miles upstream from confluence of Lake Creek and Arkansas River and 1500 ft downstream of Twin Lakes Dam.

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8004 DCP) and shaft encoder in a concrete shelter and well. Primary record is satellite-monitored data with the graphic chart recorder used for backup purposes. Shaft encoder and chart are set to an inside electric tape-down mounted on instrument shelf. Outside staff gage installed in flume but generally used as backup to primary reference tape-down gage. Control is a 30-foot concrete Parshall flume. A high data rate Sutron Satlink DCP was installed on Jul. 29, 2003. Datum of gage is 9,200 ft. above mean sea level.

REMARKS.--Record is complete and reliable the entire year. Record good. Station maintained and record developed by L.R. Schultz.

RATING TABLE.--LAKBTLCO07 USED FROM 01-OCT-2002 TO 28-OCT-2003

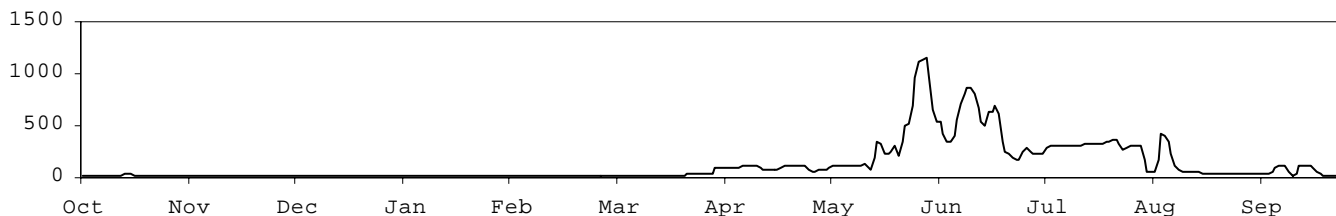
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	27	14	15	14	15	43	66	1140	284	309	45
2	13	27	14	19	14	14	87	83	1160	259	307	45
3	13	27	14	24	15	14	105	83	974	237	305	45
4	13	27	14	24	15	14	100	83	655	238	173	45
5	13	27	14	24	15	14	97	93	537	238	55	45
6	14	27	14	19	15	14	95	107	541	239	60	45
7	14	27	14	14	15	14	103	110	427	285	59	45
8	14	27	14	14	15	14	104	109	347	305	179	45
9	14	27	14	14	15	14	99	109	350	305	415	48
10	18	27	14	14	15	14	109	109	410	305	411	54
11	27	27	14	14	15	14	118	108	563	304	341	90
12	28	27	15	14	15	14	117	109	718	304	235	110
13	29	25	15	14	15	15	115	109	804	303	119	110
14	29	22	14	14	14	15	115	124	860	304	73	110
15	29	22	14	15	14	14	97	141	858	303	49	67
16	28	22	14	15	14	15	80	112	803	302	49	12
17	26	22	15	15	14	15	82	86	670	312	49	41
18	26	17	15	15	14	15	82	185	535	329	49	115
19	26	15	19	15	15	15	82	340	499	328	49	116
20	26	14	23	15	15	18	82	327	631	328	49	114
21	26	14	23	14	14	25	94	238	631	327	48	114
22	26	15	23	14	14	24	122	222	694	326	47	100
23	26	15	23	14	14	24	121	247	610	331	47	65
24	27	14	23	14	15	26	120	307	353	345	47	36
25	26	15	23	14	15	30	119	220	258	353	47	20
26	27	15	23	14	15	29	117	354	226	367	47	12
27	26	14	22	14	15	30	115	504	188	366	47	12
28	26	14	22	14	15	30	114	519	173	321	47	12
29	26	14	23	15	---	30	85	690	174	270	47	12
30	27	14	19	14	---	30	54	959	244	295	46	12
31	27	---	15	14	---	29	---	1120	---	310	46	---
TOTAL	703	627	537	482	410	598	2973	7973	17033	9423	3851	1742
MEAN	23	21	17	16	15	19	99	257	568	304	124	58
AC-FT	1390	1240	1070	956	813	1190	5900	15810	33780	18690	7640	3460
MAX	29	27	23	24	15	30	122	1120	1160	367	415	116
MIN	13	14	14	14	14	14	43	66	173	237	46	12

CAL YR	2002	TOTAL	23756	MEAN	65.1	MAX	241	MIN	12	AC-FT	47120
WTR YR	2003	TOTAL	46352	MEAN	127	MAX	1160	MIN	12	AC-FT	91940

MAX DISCH: 1160 CFS AT 21:45 ON Jun. 2, 2003 GH 4.25 FT. SHIFT 0.03 FT.
MAX GH: 4.25 FT. AT 21:45 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07086000 ARKANSAS RIVER AT GRANITE, CO

LOCATION.--Lat 39°02'34", long 106°15'55", in SE¼SW¼ sec. 31, T.11 S., R.79 W., Chaffee County, Hydrologic Unit 11020001, on right bank at Granite, 100 ft east of U.S. Highway 24, 100 ft downstream from county bridge, and 200 ft upstream from Cache Creek.

DRAINAGE AREA AND PERIOD OF RECORD.--427 mi². Sporadic data from April 1895 to May 1901. Complete data from April 1910 to current year. Monthly data for some periods only.

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8200 DCP) and shaft encoder in 42-inch diameter corrugated metal pipe (CMP) shelter and well. Shaft encoder and chart set to inside electric tape gage. DCP data are primary record (A-35 chart record is used for back-up purposes). Cableway approximately 100 feet downstream from gage. Datum of gage is 8,914.86 ft above National Geodetic Vertical Datum of 1929, supplementary adjustment of 1960.

REMARKS.--Record is complete and reliable except for the following periods: Nov. 12-15, 17-25, 30; Dec. 2, 5, 12, 13, 17, 21, 27, 28, 30, 31, 2002; Jan. 1-4, 6-15, 17, 19-31; Feb. 1, 2, 5, 13-15, 17, 18, 22-25, 27, 28; Mar. 4, 5, 7-15, 18-20, 22, 26, 27, 30, 31, 2003 when stage-discharge relationship was affected by ice. Nov. 16, 26-29; Dec. 1, 3, 4, 6-11, 14-16, 18-20, 22-26, 29, 2002; Jan. 5, 16, 18; Feb. 3, 4, 6-12, 16, 19-21, 26; Mar. 1-3, 6, 28, 29, 2003, when intakes may have been frozen and/ or clock stopped. Record good, except during periods of no gage height record and ice effect, which is poor. Station maintained and record developed by L.R. Schultz.

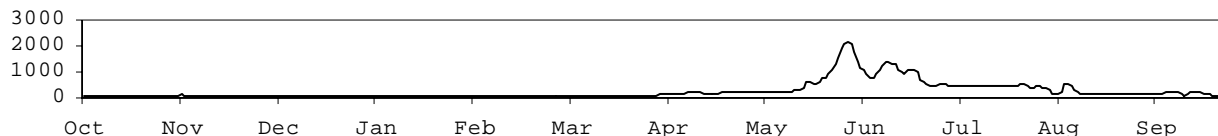
RATING TABLE.--ARKGRNC011A USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	116	67	69	57	48	106	201	2150	544	431	152
2	90	114	68	70	58	45	157	210	2080	511	415	141
3	108	107	66	80	52	42	180	207	1770	478	408	139
4	109	107	64	90	48	43	167	210	1350	461	299	137
5	100	110	60	90	45	46	160	214	1160	454	169	130
6	91	106	60	80	45	47	157	217	1100	445	171	151
7	90	103	58	50	42	48	161	213	943	478	169	175
8	90	107	60	53	40	47	165	214	797	496	260	177
9	88	114	59	56	41	47	165	215	787	490	519	182
10	89	104	58	53	42	47	183	216	902	486	518	205
11	102	111	57	53	48	60	206	209	1060	476	445	234
12	102	109	58	50	50	80	211	203	1200	464	340	240
13	95	105	59	51	60	82	206	220	1380	457	232	231
14	97	99	60	52	68	78	220	249	1350	455	191	227
15	99	90	62	55	58	69	205	300	1320	454	146	183
16	102	85	60	53	45	67	169	290	1280	453	138	105
17	103	92	61	53	50	66	179	289	1110	465	149	121
18	103	82	59	52	51	66	178	423	983	484	162	208
19	102	80	60	55	50	60	171	633	924	483	171	209
20	97	82	66	58	49	60	167	615	1080	482	155	206
21	96	79	70	59	51	77	180	512	1040	487	142	204
22	99	76	70	60	53	69	223	536	1080	476	137	191
23	109	72	69	62	50	79	213	632	997	471	146	154
24	114	73	70	60	49	86	205	769	715	488	158	120
25	108	71	69	58	50	88	219	782	580	493	170	98
26	105	67	70	56	49	82	226	885	533	510	166	89
27	107	67	70	58	49	80	233	1100	476	528	158	87
28	105	68	73	58	49	75	241	1270	451	491	157	83
29	107	68	78	53	---	77	225	1530	447	407	148	84
30	102	69	74	58	---	76	205	1930	508	420	152	85
31	115	---	67	60	---	82	---	2070	---	432	164	---
TOTAL	3108	2733	2002	1865	1399	2019	5683	17564	31553	14719	7186	4748
MEAN	100	91	65	60	50	65	189	567	1052	475	232	158
AC-FT	6160	5420	3970	3700	2770	4000	11270	34840	62590	29200	14250	9420
MAX	115	116	78	90	68	88	241	2070	2150	544	519	240
MIN	84	67	57	50	40	42	106	201	447	407	137	83
CAL YR 2002	TOTAL	52644	MEAN	144	MAX	393	MIN	57	AC-FT	104400		
WTR YR 2003	TOTAL	94579	MEAN	259	MAX	2150	MIN	40	AC-FT	187600		

MAX DISCH: 2220 CFS AT 19:00 ON Jun. 1, 2003 GH 5.26 FT. SHIFT 0.14 FT.
MAX GH: 5.26 FT. AT 19:00 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07086500 CLEAR CREEK ABOVE CLEAR CREEK RESERVOIR, CO

LOCATION.--Lat 39°01'05", long 106°16'38", in SE¼ sec. 12, T,12 S., R.80 W., Chaffee County, Hydrologic Unit 11020001, on right bank 0.5 mi upstream from water line of Clear Creek Reservoir at elevation 8,875 ft, 1.5 mi downstream from unnamed tributary, and 1.9 mi southwest of Granite.

DRAINAGE AREA.--67.1 mi².

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8004 DCP) and shaft encoder in a 42-inch diameter corrugated metal pipe (CMP) shelter and well. Shaft encoder and chart set to inside drop tape gage with adjustable RP on instrument shelf. DCP data are primary record (graphic chart record is used for back-up purposes). Control is a concrete dam tapered lower towards the center, located approximately 15 feet downstream. An outside staff gage was installed on April 19, 2000 as a supplemental reference gage. However, since its installation, it does not agree with the inside tape, most likely due to draw-down. A high data-rate, Sutron SatLink DCP was installed on July 30, 2003.

REMARKS.--Record is complete and reliable except for the following periods: Nov.3-7,10,11, 2002; Mar. 27-31, Apr. 4,7,8, 2003, when the stage-discharge relationship was affected by ice. Nov. 12, 2002 to March 25, 2003, when the station was closed for the winter. Record good, except during periods of no gage height record and ice effect, which is poor. Station maintained and record developed by L.R. Schultz.

RATING TABLE.--CCACCRC014 USED FROM 01-OCT-2002 TO 01-OCT-2003

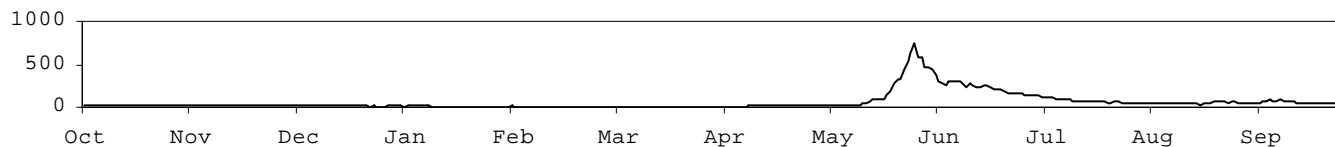
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	16	13	12	11	7	9.6	23	574	150	52	55
2	23	16	13	11	12	7	10	19	476	151	48	50
3	26	14	13	12	11	7.5	9.5	22	459	148	55	51
4	24	15	13	13	9	7.5	9	24	434	141	50	53
5	22	16	13	13	8	7	8.6	24	375	131	44	47
6	21	16	13	13	8	7	8.3	22	307	123	41	50
7	21	16	12	12	7	7.5	8	22	268	114	39	56
8	20	15	13	13	6	7.5	7.5	23	260	111	38	59
9	20	16	13	12	6	7.5	8.7	22	291	108	37	65
10	20	16	13	11	6	8	9.2	22	296	100	38	87
11	19	15	13	11	6	8	9.7	21	303	94	37	78
12	19	13	13	11	6.5	8.5	12	22	296	89	40	73
13	19	14	12	10	7	8.5	13	26	281	85	41	83
14	18	15	13	9	7.5	8.5	14	29	230	82	37	77
15	18	14	14	10	7	9	16	41	275	79	35	70
16	18	14	13	9	6.5	8.5	15	47	258	81	35	65
17	18	15	13	10	6.5	8.5	15	77	224	76	39	61
18	17	15	12	9	7	8	14	100	225	77	41	57
19	17	16	12	10	6.5	7.5	14	84	259	74	43	54
20	17	17	12	11	6	8	14	83	246	70	37	52
21	17	17	12	10	6.5	8.5	15	98	225	68	34	49
22	16	17	12	10	7	8.5	16	134	219	63	35	46
23	17	17	11	11	6.5	9	16	193	216	59	41	44
24	17	17	12	10	6.5	8.5	15	269	198	65	41	43
25	17	16	11	10	6.5	8.5	16	326	176	58	71	41
26	16	15	11	9	6.5	8.6	17	325	162	57	77	39
27	16	14	11	10	7	8.4	19	437	164	60	63	37
28	16	13	12	10	7.5	8.1	21	532	167	63	62	36
29	16	13	13	9	---	8.5	24	626	167	56	57	35
30	15	13	13	10	---	8.7	25	750	152	50	66	35
31	16	---	12	10	---	8.2	---	590	---	48	62	---
TOTAL	578	456	386	331	204.5	250	409.1	5033	8183	2731	1436	1648
MEAN	19	15	13	10.7	7.3	8.1	13.6	162	273	88	46	55
AC-FT	1150	904	766	657	406	496	811	9980	16230	5420	2850	3270
MAX	26	17	14	13	12	9	25	750	574	151	77	87
MIN	15	13	11	9	6	7	7.5	19	152	48	34	35

CAL YR 2002 TOTAL 9564.4 MEAN 26.2 MAX 172 MIN 8 AC-FT 18970
WTR YR 2003 TOTAL 21645.6 MEAN 59.3 MAX 750 MIN 6 AC-FT 42930

MAX DISCH: 1010 CFS AT 00:45 ON May. 30, 2003 GH 4.96 FT. SHIFT 0.11 FT.
MAX GH: 4.96 FT. AT 00:45 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

CLEAR CREEK BELOW CLEAR CREEK RESERVOIR, NEAR GRANITE, CO

LOCATION.--Lat 39°01'20", long 106°14'07", Lake County, on left bank 200 ft. upstream from junction Clear Creek and Arkansas River.

DRAINAGE AREA.--N/A

GAGE.--Float activated graphic water-stage recorder and shaft encoder in a metal-sided wood frame shelter and concrete well. Shaft encoder connected by data cable to satellite-monitored data collection platform (Sutron 8200) on Clear Creek Dam. Shaft encoder and chart set to inside drop tape gage with adjustable RP on instrument shelf. Outside gage used as supplemental reference. Control is a 20-ft. wide, compound, broad-crested weir located at the gage.

REMARKS.--Record is complete and reliable. Record good. Station maintained and record developed by L. R. Schultz.

RATING TABLE.--CCBCCRCO04 USED FROM 01-OCT-2002 TO 04-DEC-2003

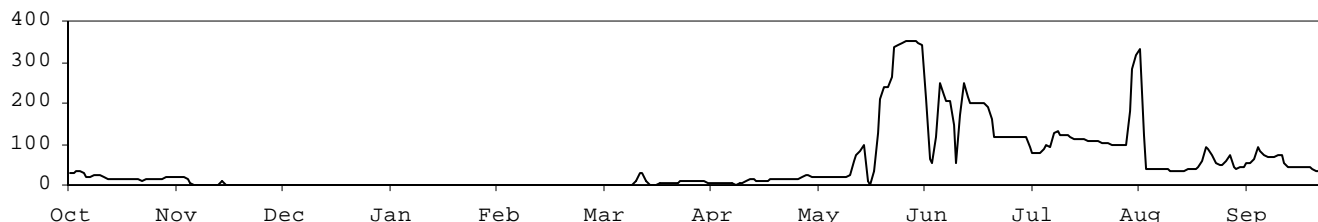
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	21	1.2	1.2	1.3	1.3	10	19	350	118	98	57
2	28	21	1.2	1.1	1.3	1.3	8.8	24	349	117	98	75
3	32	21	1.2	1.2	1.3	1.3	8.8	23	349	118	98	46
4	34	16	1.1	1.2	1.3	1.3	4	20	348	117	179	38
5	31	6.8	1.1	1.2	1.3	1.4	3.2	20	342	117	281	43
6	21	1.3	1.1	1.2	1.3	1.4	6.1	20	212	93	318	46
7	21	1.2	1.1	1.1	1.2	1.4	6.2	20	62	78	331	52
8	25	1.2	1.1	1.2	1.3	1.4	6.2	20	54	78	122	55
9	25	1.2	1.1	1.2	1.3	1.4	6.2	20	117	78	41	64
10	25	1.1	1.1	1.1	1.3	1.4	6.2	20	250	89	41	94
11	21	1.1	1.1	1.1	1.3	1.4	3.7	20	218	97	41	84
12	16	1.1	1.1	1.1	1.3	1.4	2.1	20	204	92	41	71
13	16	1.1	1.1	1.2	1.3	1.4	4.6	20	204	129	41	68
14	16	8.3	1.1	1.2	1.3	10	6.1	20	145	131	41	68
15	16	1.3	1.1	1.2	1.3	27	8.5	25	54	122	38	70
16	16	1.2	1.2	1.2	1.3	27	14	58	172	121	34	75
17	16	1.2	1.2	1.2	1.3	11	14	71	250	121	34	71
18	16	1.2	1.1	1.2	1.3	1.9	11	83	217	116	34	52
19	16	1.2	1.1	1.2	1.2	1.9	11	100	201	111	34	45
20	16	1.2	1.2	1.2	1.3	1.9	11	10	201	111	34	45
21	15	1.2	1.2	1.2	1.3	2.8	11	1.5	201	111	37	45
22	12	1.2	1.1	1.2	1.3	4.4	13	33	201	111	41	46
23	13	1.2	1.1	1.2	1.3	4.4	17	126	201	107	41	45
24	16	1.2	1.1	1.2	1.3	4.4	17	209	192	106	42	45
25	16	1.2	1.1	1.2	1.3	4.2	17	237	160	106	60	45
26	16	1.2	1.1	1.2	1.3	5.9	17	238	118	105	95	38
27	16	1.2	1.2	1.3	1.3	8.8	17	261	118	103	86	34
28	16	1.2	1.2	1.3	1.3	11	17	335	118	101	74	34
29	19	1.2	1.2	1.2	---	12	17	342	118	101	54	34
30	21	1.2	1.2	1.3	---	12	17	347	118	100	51	34
31	21	---	1.2	1.3	---	12	---	349	---	99	51	---
TOTAL	615	122.7	35.3	37.1	36.2	180.4	311.7	3111.5	5844	3304	2611	1619
MEAN	20	4.1	1.1	1.2	1.3	5.8	10.4	100	195	107	84	54
AC-FT	1220	243	70	74	72	358	618	6170	11590	6550	5180	3210
MAX	34	21	1.2	1.3	1.3	27	17	349	350	131	331	94
MIN	12	1.1	1.1	1.1	1.2	1.3	2.1	1.5	54	78	34	34

CAL YR 2002 TOTAL 7918.56 MEAN 21.7 MAX 166 MIN 0.66 AC-FT 15710
WTR YR 2003 TOTAL 17827.9 MEAN 48.8 MAX 350 MIN 1.1 AC-FT 35360

MAX DISCH: 353 CFS AT 09:00 ON Jun. 1, 2003 GH 3.09 FT. SHIFT -0.02 FT.
MAX GH: 3.09 FT. AT 09:00 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07089520 COTTONWOOD CREEK AT BUENA VISTA, CO

LOCATION.--Lat 38°50'04", long 106°07'20", in NW¼NW¼NW¼, sec. 16, T.14 S., R. 78 W., in Chaffee County, on left bank, about 1500 ft. upstream from Arkansas River, and 1200 ft. upstream from bridge at Buena Vista High School.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8004 DCP) and shaft encoder in a 42-inch corrugated metal pipe shelter and well. Shaft encoder and chart set to inside drop tape gage with adjustable RP on instrument shelf. Outside staff gage used for supplemental reference. Satellite-monitored data are the primary record (graphic chart record is used for back-up purposes). A High Data-Rate, Sutron Sat-Link was installed on July 30, 2003. Datum of gage 7930 ft. from topographic map.

REMARKS.--Record is complete and reliable except for the following periods: Nov.5, 12, 16-17, 19, 26-28; Dec. 4-14, 16, 18-31, 2002; Jan.1-3, 7-14, 16-20, 22, 26, 29; Feb. 3-12, 16, 19-27; Mar.1-6, 20, 28-31, 2003, when ice affected the stage-discharge relationship. Aug. 28-31; Sept. 1-2, 2003 when a close proximity lightning strike knocked the Sutron Sat-Link off-line. Record good, except that for periods of ice effect, which is poor. Record good, except that for periods of ice effect and missing record, which is poor. Station maintained and record developed by L.R.Schultz.

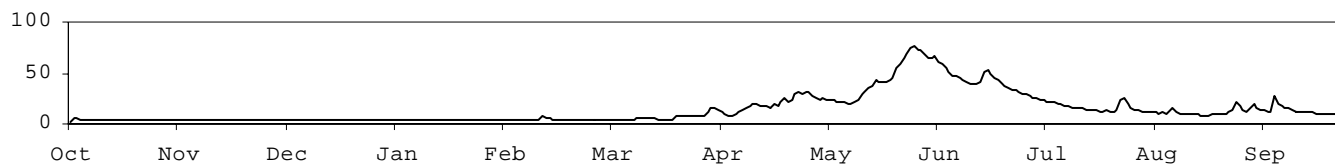
RATING TABLE.--COCRBVCO04 USED FROM 01-OCT-2002 TO 29-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	14	18	14	12	11	4.1	1.6	231	25	3.3	2.9
2	16	11	19	13	12	12	5	1.1	206	24	2.4	6
3	20	11	18	14	12	11	3.6	.36	176	23	1.8	6.6
4	19	12	17	16	9	12	3.7	.35	137	21	1.6	11
5	18	11	18	16	10	12	3.6	.33	129	19	1.3	8.2
6	17	8.9	17	15	11	12	3.6	.32	112	17	1.9	8.1
7	18	8.7	17	13	7	13	3.4	.32	95	16	2.4	11
8	18	9.1	17	13	8	13	3.4	.33	81	14	1.4	18
9	18	11	16	13	8	13	3.4	.33	81	8.9	1.4	13
10	14	10	16	11	8	13	3.3	.32	95	5.3	1.4	25
11	11	9.2	16	13	10	13	3.2	.33	99	4.3	3.7	13
12	4.8	9	16	12	11	13	3.1	.34	94	3.7	7.8	4
13	5.5	9.4	16	12	14	11	2.4	.36	86	3.1	7.3	7.2
14	4.9	9.3	17	12	13	9.3	2.2	.4	79	2.9	3.7	4.3
15	4.8	7.9	17	13	11	9.4	1.8	7.6	81	2.1	1.5	1.8
16	3.4	7	17	9	11	9.9	1.5	6.1	76	1.7	1.7	1
17	3.4	7.5	17	11	11	10	1	12	66	1.8	2.8	.64
18	3.2	7.8	15	10	11	12	1	13	69	1.7	3.6	6.8
19	2.8	7	10	13	10	10	.99	2.9	77	1.6	6.3	6.4
20	1.7	13	10	13	9	9	.87	3.1	75	1.6	3.7	2.1
21	1.4	16	12	13	11	9.6	.83	5.4	68	1.6	3.2	3.8
22	1.8	16	11	12	12	9.5	1.1	39	64	1.6	3.3	14
23	8.1	16	12	13	10	9.9	1.2	62	61	2.5	5.4	7.2
24	13	16	11	13	10	9.4	.62	86	55	2.7	6.2	1.3
25	12	17	11	13	11	7.5	.22	128	49	2.7	6.3	1
26	12	13	11	11	12	6	.23	90	39	2.3	6.5	.73
27	15	15	11	12	12	4.6	.24	89	35	7.7	2.9	.62
28	14	17	12	12	13	3	.25	227	34	9.1	2.9	.59
29	14	18	13	12	---	3	.38	247	31	4.8	2.9	.54
30	14	18	13	12	---	3.2	1.2	312	28	3	2.9	.5
31	16	---	13	12	---	3.8	---	252	---	2.2	2.9	---
TOTAL	339.8	355.8	454	391	299	298.1	61.43	1588.89	2609	237.9	106.4	187.32
MEAN	11	11.9	15	12.6	10.7	9.6	2.05	51.3	87	7.7	3.4	6.24
AC-FT	674	706	901	776	593	591	122	3150	5170	472	211	372
MAX	20	18	19	16	14	13	5	312	231	25	7.8	25
MIN	1.4	7	10	9	7	3	.22	.32	28	1.6	1.3	.5
CAL YR 2002	TOTAL	3609.33	MEAN	9.89	MAX	23	MIN	.54	AC-FT	7160		
WTR YR 2003	TOTAL	6928.64	MEAN	19	MAX	312	MIN	.22	AC-FT	13740		

MAX DISCH: 405 CFS AT 02:30 ON May. 30, 2003 GH 4.09 FT. SHIFT 0.09 FT. DATUM CORR. 0.01 FT.
MAX GH: 4.09 FT. (DATUM CORR. 0.01 FT) AT 02:30 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07091000 CHALK CREEK AT NATHROP, CO

LOCATION.--Lat 38°44'30", long 106°04'57", in SW¼SE¼NE¼SW¼ sec. 14, T.15 S., R.78 W., Chaffee County, on left bank, 640' north of the Junction of Co. Hwy. 162 and U.S. 285 on the frontage rd. parallel to U.S. 285, ¼ mi. south of Nathrop, Co., and 1 mi. west of the confluence of Chalk Creek and the Arkansas River.

DRAINAGE AREA.--N\A

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (DCP) and shaft encoder in 32-inch diameter corrugated metal pipe (CMP) shelter and well. Shaft encoder and chart set to inside drop tape gage with adjustable RP on instrument shelf. DCP data are primary record (graphic chart record is used for back-up purposes). Outside staff gage also used for reference purpose. Control is a concrete dam, tapered lower towards the center, located approximately 5 feet downstream. Recorder float replaced June 2, 2003. Sutron SatLink HDR DCP installed July 30, 2003. Elevation of gage 7660' from topographic map.

REMARKS.--Record is complete and reliable except for the following periods: Dec.26, 2002; Feb.7, 8, 10, 2003, when ice affected the stage-discharge relationship. Record good, except during periods of ice effect and flows below 3-5 cfs, which are poor. Station maintained and record developed by L. R. Schultz.

RATING TABLE.--CHCRNACO06 USED FROM 01-OCT-2002 TO 29-OCT-2003

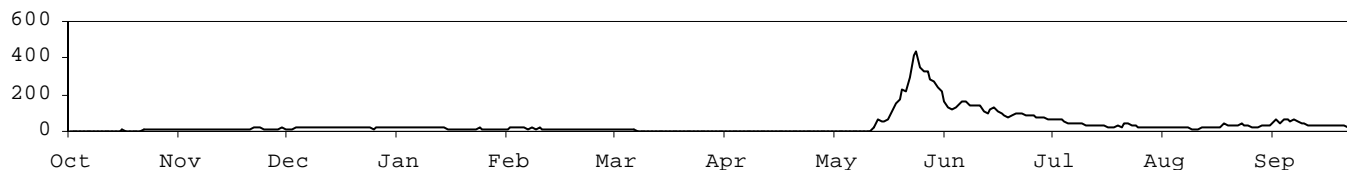
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	8.1	16	19	13	15	.95	1.9	322	84	25	25
2	4	7.5	16	18	16	16	1.1	1.7	280	81	25	22
3	4.3	7.5	16	18	18	16	1.2	1.8	273	75	23	25
4	4.2	7.5	17	18	18	16	1.2	1.9	243	71	21	33
5	4.6	9.2	17	17	18	16	1.1	1.9	223	66	20	28
6	5.3	8.7	17	18	18	14	1.2	1.9	160	66	19	33
7	4.9	8.1	17	18	17	12	1.3	1.9	134	68	18	53
8	4.7	8.7	17	18	16	8.9	1.4	1.9	118	64	18	64
9	4.6	14	17	17	17	8.6	1.6	1.9	134	62	18	47
10	4.3	16	18	17	16	5.9	1.9	1.9	154	51	18	67
11	4.2	16	19	20	17	4.7	2.4	1.9	163	48	17	62
12	4.2	15	21	21	16	4	2.7	1.9	162	46	19	54
13	3.8	16	20	21	16	1.6	3.1	1.9	147	45	18	61
14	3.8	16	19	19	16	.77	3.4	2	138	45	17	55
15	3.9	16	20	17	16	.81	3.7	2.3	144	39	16	48
16	6.5	15	20	16	16	.9	4.1	4.2	140	37	15	43
17	4.8	15	20	16	15	.93	4.4	22	109	37	16	38
18	3.6	16	19	16	14	.96	4.6	62	100	34	17	35
19	3.8	16	18	15	15	1	4.6	55	124	30	23	35
20	3.7	16	18	16	16	1	4.8	57	136	30	20	33
21	3.8	16	18	15	16	1	4.6	68	111	29	19	33
22	6	18	17	14	16	1.1	4.6	110	99	27	20	33
23	7.9	17	18	14	16	1.3	4.2	152	92	25	22	31
24	8.1	17	17	15	16	1.1	3	173	79	26	39	31
25	8.1	16	17	17	16	1	2.6	231	87	28	34	30
26	7.8	16	16	16	16	1	2.4	215	100	24	34	29
27	8.1	16	17	16	16	.98	2.2	298	96	39	28	28
28	8.1	16	17	14	16	1	1.9	413	96	45	34	26
29	8.7	16	17	13	---	1	1.9	435	92	33	39	24
30	8.7	17	17	13	---	1	1.9	352	87	28	34	23
31	8.2	---	17	13	---	1	---	325	---	24	30	---
TOTAL	171.1	417.3	550	515	452	156.55	80.05	3000.9	4343	1407	716	1149
MEAN	5.5	13.9	18	17	16	5.05	2.67	96.8	145	45	23	38
AC-FT	339	828	1090	1020	897	311	159	5950	8610	2790	1420	2280
MAX	8.7	18	21	21	18	16	4.8	435	322	84	39	67
MIN	3.6	7.5	16	13	13	.77	.95	1.7	79	24	15	22

CAL YR 2002 TOTAL 3662.7 MEAN 10.0 MAX 29 MIN 1.2 AC-FT 7260
WTR YR 2003 TOTAL 12957.9 MEAN 35.5 MAX 435 MIN .77 AC-FT 25700

MAX DISCH: 654 CFS AT 04:00 ON May. 29, 2003 GH 5.23 FT. SHIFT 0 FT. DATUM CORR. +0.34 FT.
MAX GH: 5.23 FT. (DATUM CORR. +0.34 FT) AT 04:00 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07091500 ARKANSAS RIVER AT SALIDA, CO

LOCATION.--Lat 38°32'45", long 106°00'36", in NE¼ sec. 31, T.50 N., R.9 E., Chaffee County on right bank at Salida, 450 ft. upstream from bridge on State Highway 291, and 2.7 mi. upstream from South Arkansas River.

DRAINAGE AREA.--1,218 mi².

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron Model 8210 DCP with high data rate transmitter) and shaft encoder in a 4'x 4' steel shelter placed over a stilling well. Shaft encoder and chart set to inside drop tape gage with adjustable RP on instrument shelf (augmented by an outside staff gage). Outside gage set 0.01 ft low. DCP log data are primary record (satellite data and A-35 chart used for back-up purposes). Cableway approximately 35 feet downstream from gage. Datum of gage is 7,050.45 ft.

REMARKS.--Record is complete and reliable except for the following periods: Nov. 16, 26-28; Dec. 6, 9-14, 18-28, 31, 2002; Jan. 2-5, 7-10, 15-16, 18-19, 26-27, 29; Feb. 4-12, 16, 19-27; March 28-30, 2003, when gage height was affected by ice on the control; Sept. 17-26, 2003, when the intakes were plugged by moving sand. Record good, except for those periods of no-gage-height and ice affected record, which are poor. Station maintained and record developed by L.R. Schultz.

RATING TABLE.--ARKSALCO28 USED FROM 01-OCT-2002 TO 13-OCT-2003

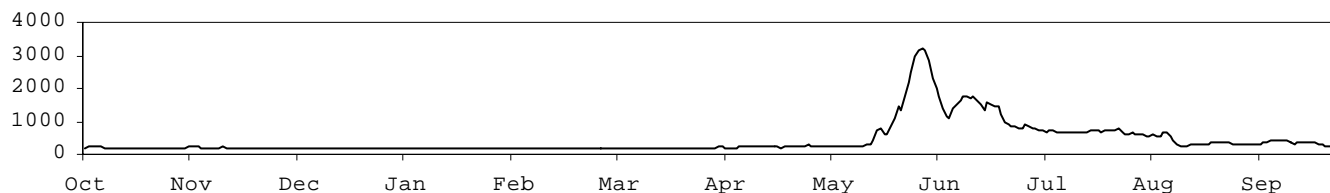
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	220	196	182	183	166	180	224	3190	883	640	303
2	218	217	195	172	184	170	196	226	3150	861	630	293
3	235	214	196	182	183	161	225	228	2860	794	614	293
4	238	207	189	195	170	167	227	224	2330	776	608	299
5	228	206	196	196	169	171	211	224	1990	747	526	289
6	222	199	190	192	183	166	207	228	1750	721	541	298
7	208	196	188	178	168	166	207	221	1390	689	580	324
8	209	194	190	170	165	167	212	220	1150	724	528	374
9	210	211	182	170	169	168	213	221	1090	714	536	351
10	205	213	183	168	174	169	213	220	1370	690	647	394
11	190	205	181	177	175	169	229	220	1510	695	638	434
12	185	202	178	177	176	175	235	216	1650	665	550	413
13	177	198	184	172	188	176	236	215	1780	668	404	408
14	174	207	191	172	193	169	243	226	1780	695	302	407
15	176	208	188	168	187	173	252	255	1690	673	268	405
16	178	195	188	160	180	172	233	312	1780	669	248	362
17	177	191	187	163	178	171	225	327	1660	672	256	322
18	183	198	185	160	177	178	231	407	1500	688	276	343
19	185	190	175	168	171	169	231	730	1320	689	321	369
20	183	190	177	175	168	163	224	773	1550	702	322	365
21	180	201	187	177	168	165	209	589	1510	708	318	357
22	190	202	179	177	173	170	223	617	1470	701	316	360
23	196	200	178	175	167	172	237	841	1480	687	322	338
24	205	200	174	176	162	178	232	1100	1240	697	340	302
25	207	201	168	176	173	178	233	1460	974	700	360	274
26	203	190	170	172	172	177	236	1350	924	721	361	258
27	207	182	174	172	165	178	239	1760	847	751	367	238
28	208	191	190	179	172	175	246	2200	819	794	355	233
29	205	198	201	174	---	173	277	2460	816	655	347	226
30	210	198	199	172	---	172	245	2940	808	629	324	224
31	213	---	180	178	---	174	---	3150	---	633	320	---
TOTAL	6217	6024	5739	5425	4893	5298	6807	24384	47378	22091	13165	9856
MEAN	201	201	185	175	175	171	227	787	1579	713	425	329
AC-FT	12330	11950	11380	10760	9710	10510	13500	48370	93970	43820	26110	19550
MAX	238	220	201	196	193	178	277	3150	3190	883	647	434
MIN	174	182	168	160	162	161	180	215	808	629	248	224

CAL YR	2002	TOTAL	93317	MEAN	256	MAX	558	MIN	160	AC-FT	185100
WTR YR	2003	TOTAL	157277	MEAN	431	MAX	3190	MIN	160	AC-FT	312000

MAX DISCH: 3300 CFS AT 02:00 ON Jun. 2, 2003 GH 4.02 FT. SHIFT -0.13 FT. DATUM CORRECTION = +0.05
MAX GH: 4.02 FT. (DATUM CORRECTION = +0.05) AT 02:00 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07093700 ARKANSAS RIVER NEAR WELLSVILLE, CO

LOCATION.--Lat 38°30'10", long 105°56'21", in SW¼NE¼ sec. 14, T.49 N., R.9 E., Chaffee County, Hydrologic Unit 11020001, on right bank 50 ft upstream from Chaffee-Fremont County line, 2.0 mi northwest of Wellsville, 2.8 mi downstream from South Arkansas River, and 3.5 mi southeast of Salida.

DRAINAGE AREA AND PERIOD OF RECORD.--1,485 mi². April 1961 to current year.

GAGE.--Station is equipped with a satellite-monitored data collection platform (Sutron 8210 DCP) with a Sutron Accububbler. The 8210 DCP log is the primary record, the satellite-monitored data are used as back-up. Accububbler set to outside horizontal chain weight gage. DCP upgraded to high data rate (hourly) transmissions on June 18, 2002. Concrete flood block with provisions for high and low stage orifice lines installed September 2002. The new orifice lines were installed Aug. 28, 2003. Cableway located 400 feet downstream from gage. Datum of gage is 6,883.4 ft above National Geodetic Vertical Datum of 1929 (river-profile survey).

REMARKS.--Record is complete and reliable except for the following periods: Dec. 21-27, 2002; Jan. 7, 8; Feb. 7, 8, 2003, when the orifice line was temporarily frozen; Jan 10-13 and June 19-20, 2003, when the battery malfunctioned. Record good, except during periods of orifice freezing, which is poor. Station maintained and record developed by L.R. Schultz.

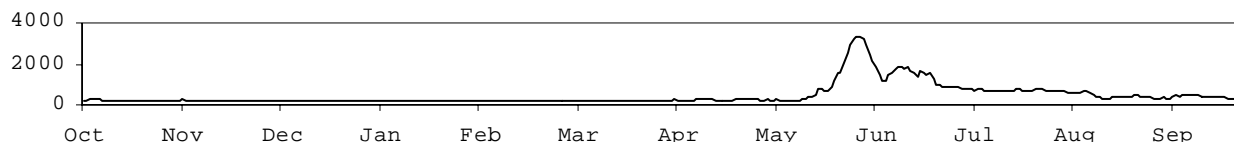
RATING TABLE.--ARKWELCO06A USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	245	223	214	221	207	190	237	3320	903	679	341
2	240	240	222	206	221	209	205	239	3240	884	668	330
3	265	237	224	217	221	198	243	247	2960	822	649	332
4	267	227	216	237	205	205	250	242	2440	802	644	344
5	255	224	217	239	200	210	230	239	2120	779	579	328
6	246	217	216	239	213	202	221	244	1860	755	578	336
7	229	211	212	220	202	203	221	236	1490	720	616	377
8	230	209	212	210	198	202	227	232	1210	755	585	441
9	232	237	205	215	195	197	225	235	1150	744	554	402
10	228	238	205	213	196	189	224	233	1430	721	665	475
11	205	224	203	218	217	188	245	234	1580	723	662	528
12	196	221	197	218	212	194	256	228	1710	695	589	499
13	184	225	207	214	226	193	257	228	1840	696	479	489
14	181	238	214	213	233	188	263	246	1830	721	390	482
15	182	238	210	215	225	194	274	300	1750	700	345	459
16	186	222	209	201	217	196	252	374	1810	700	313	393
17	184	221	212	200	212	192	234	402	1700	706	314	347
18	197	228	209	198	214	206	238	495	1560	716	326	368
19	207	220	189	213	212	190	237	733	1380	717	389	394
20	207	219	188	213	205	178	235	805	1610	740	390	390
21	206	228	212	217	207	185	216	651	1580	742	366	382
22	218	230	210	213	217	191	233	665	1510	731	367	385
23	226	228	210	215	207	192	255	878	1520	711	382	363
24	238	228	207	218	197	201	245	1170	1250	723	413	327
25	239	231	202	217	217	199	246	1580	990	719	439	299
26	234	216	200	212	219	192	254	1600	944	737	466	283
27	230	206	202	212	210	196	262	2010	865	778	461	262
28	231	213	230	218	214	193	269	2550	844	819	430	256
29	228	221	229	213	---	188	308	2920	844	706	416	251
30	234	228	229	208	---	185	273	3180	830	670	392	249
31	236	---	218	216	---	185	---	3310	---	677	366	---
TOTAL	6869	6770	6539	6672	5933	6048	7288	26943	49167	23012	14912	11112
MEAN	222	226	211	215	212	195	243	869	1639	742	481	370
AC-FT	13620	13430	12970	13230	11770	12000	14460	53440	97520	45640	29580	22040
MAX	267	245	230	239	233	210	308	3310	3320	903	679	528
MIN	181	206	188	198	195	178	190	228	830	670	313	249
CAL YR 2002	TOTAL	104743	MEAN	287	MAX	564	MIN	179	AC-FT	207800		
WTR YR 2003	TOTAL	171265	MEAN	469	MAX	3320	MIN	178	AC-FT	339700		

MAX DISCH: 3540 CFS AT 07:45 ON May 31, 2003 GH 6.95 FT. SHIFT 0.00 FT.
MAX GH: 6.95 FT. AT 07:45 ON May 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07095000 GRAPE CREEK NEAR WESTCLIFFE, CO

LOCATION.--Lat 38°11'10", long 105°28'59", in NW¼NW¼ sec. 31, T.21 S., R.72 W., Custer County, Hydrologic Unit 110200001, on left bank 0.5 mi upstream from water line of De Weese Reservoir at elevation 7,665 ft, 0.5 mi downstream from Swift Creek, and 3.6 mi northwest of Westcliffe.

DRAINAGE AREA.--320 mi².

GAGE.--Graphic water stage recorder, satellite monitored data collection platform (Sutron Model 8210 DCP) and shaft encoder in a 48-inch diameter metal pipe (CMP) shelter and well. Primary record is DCP log data with the graphic chart recorder and satellite data used for backup purposes. Primary reference gage is electric drop tape inside well. No outside staff gage. The control is a compound, broad-crested weir located 17 ft. downstream from the gage. Elevation of gage is 7,690 ft, from topographic map. Prior to Mar, 17. 1939, at site 30 ft upstream at present datum.

REMARKS.--Record is complete and reliable except for the following periods: November 11-13, 16-20, 26-30, December 1-12, 2002; Jan 31, Feb 1-5, and March 5-6, 18-20, 2003 when the stage-discharge relationship was affected by shore ice and ice on the control. December 13-31, 2002; January 1-30, February 6-28, and March 1-4, 2003 when chart and shaft encoder floats were frozen in ice in the well, and/or the well was frozen. Record good, except for periods of ice effect and no gage height record, which are poor. Station maintained and record developed by Thomas W. Ley.

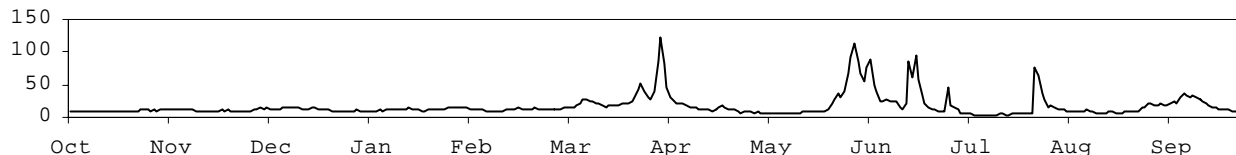
RATING TABLE.--GRAWESCO8 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	11	15	10	14	13	85	7.5	114	19	18	20
2	9.3	12	13	9	13	13	121	7.8	85	14	15	17
3	9.7	12	12	9	13	14	83	6.3	66	11	13	17
4	8.8	12	11	10	13	14	45	5.4	56	7.1	12	21
5	8.6	11	12	11	12	15	32	5.3	77	5	11	17
6	8.6	12	15	10	11	15	26	5.9	89	5.1	10	19
7	8.7	11	14	11	10	17	21	5.6	48	4.6	8.6	22
8	8.6	11	15	12	9	21	20	5.3	39	4	8.6	23
9	8.6	9.6	16	11	8	28	20	5.1	24	4.1	9.5	22
10	8.6	8.8	14	12	9	29	18	4.7	24	3.9	8.9	30
11	8.6	9.3	15	13	10	26	16	4.6	27	3.9	10	38
12	8.1	9	13	12	10	23	16	5.3	25	3.9	11	34
13	8	9.5	12	13	11	21	14	5.3	25	4	10	31
14	9.1	9	13	14	12	20	12	5.3	23	4	8.3	35
15	8.9	9.3	14	13	13	19	11	6	16	4.3	7.3	32
16	9.1	10	14	12	13	16	11	8.9	13	4.6	6.9	27
17	9.1	11	13	11	14	17	11	7.7	21	4.6	6.2	23
18	9.1	10	12	10	13	17	10	8.7	86	4.5	6.8	21
19	9.1	11	12	10	13	18	11	9.2	62	4.4	9.9	17
20	10	10	11	11	12	18	16	8.9	95	4.7	8.1	16
21	10	9.9	10	12	13	20	17	10	59	4.9	6.9	15
22	10	9.7	10	11	14	20	15	7.7	35	4.7	7.1	13
23	11	9.4	9	12	13	21	13	8	22	4.8	7	13
24	11	9.7	10	13	12	25	12	12	15	5	7.9	12
25	11	9.3	9	13	12	32	12	21	11	4.6	9.8	11
26	10	10	10	14	12	44	9.6	28	11	6.4	9.5	10
27	11	11	9	15	13	51	7.2	36	8.6	76	9.1	10
28	10	12	10	15	13	39	8.2	31	9.2	64	10	9.1
29	11	14	11	15	---	31	8.3	40	10	37	14	8.9
30	11	13	10	15	---	29	7.7	66	45	28	14	8.6
31	11	---	10	14	---	39	---	92	---	16	20	---
TOTAL	293.3	316.5	374	373	335	725	709	480.5	1240.8	372.1	314.4	592.6
MEAN	9.5	10.6	12.1	12	12	23	23.6	15.5	41.4	12	10.1	19.8
AC-FT	582	628	742	740	664	1440	1410	953	2460	738	624	1180
MAX	11	14	16	15	14	51	121	92	114	76	20	38
MIN	7.7	8.8	9	9	8	13	7.2	4.6	8.6	3.9	6.2	8.6
CAL YR 2002	TOTAL	3626.7	MEAN	9.94	MAX	25	MIN	2.9	AC-FT	7190		
WTR YR 2003	TOTAL	6126.2	MEAN	16.8	MAX	121	MIN	3.9	AC-FT	12150		

MAX DISCH: 401 CFS AT 22:00 ON Jul. 27, 2003 GH 2.57 FT. SHIFT 0.02 FT.
MAX GH: 2.57 FT. AT 22:00 ON Jul. 27, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07096000 ARKANSAS RIVER AT CANON CITY, CO

LOCATION.--Lat 38°26'02", long 105°15'24", in SE¼SE¼ sec. 31, T.18 S., R.70 W., Fremont County, Hydrologic Unit 11020002, on right bank 800 ft upstream from Sand Creek, 0.7 mi downstream from Grape Creek, and 0.7 mi upstream from First Street Bridge in Canon City.

DRAINAGE AREA AND PERIOD OF RECORD.--3,117 mi². January 1888 to current year. Monthly data only for some periods. Published as near Canyon 1900-1906.

GAGE.--Graphic water-stage recorder, with high data rate DCP (Sutron 8210) and SDI shaft encoder installed July 25, 2002, in 42-inch diameter CMP shelter and well. Primary reference gage is electric drop tape inside well. Control is man-made concrete diversion dam located approximately 200 feet downstream. Cableway 15-20 feet downstream from gage. USGS Hydrolab is co-located at gage. Datum of gage is 5,342.13 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except for the following days when ice on the control affected the gage height: Dec. 12-16, 18-31, 2002; January 1-7, 9-23, Feb 7-10, 25-27, 2003. Record good, except for days on which ice affected the stage-discharge relationship, which should be considered poor. Station maintained and record developed by Thomas W. Ley.

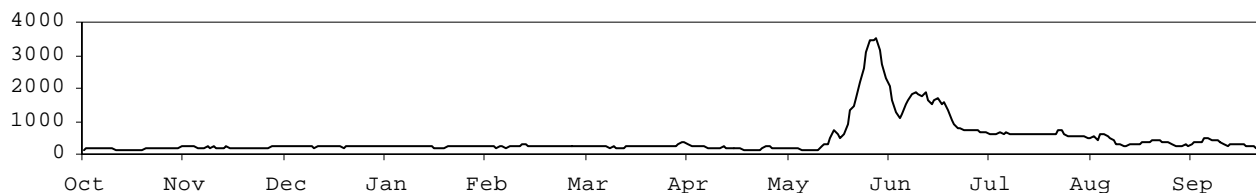
RATING TABLE.--ARKCANCO23 USED FROM 01-OCT-2002 TO 09-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	221	222	220	223	236	231	196	3460	755	569	299
2	156	226	224	220	228	231	273	173	3540	751	559	255
3	163	221	224	215	231	223	359	166	3180	709	542	264
4	177	214	226	215	223	217	348	165	2720	668	525	271
5	175	205	219	220	209	224	324	164	2330	644	519	276
6	166	199	223	220	216	225	272	166	2050	640	464	264
7	161	210	222	215	215	216	264	165	1650	608	492	292
8	157	226	223	223	210	218	264	159	1280	604	522	367
9	157	210	234	225	220	223	268	153	1100	632	439	373
10	154	221	232	225	240	218	250	151	1240	639	577	367
11	138	199	211	230	260	213	205	132	1520	633	580	470
12	117	190	214	220	263	208	205	123	1660	646	557	460
13	111	190	218	220	274	215	198	119	1790	620	484	436
14	98	215	220	215	287	200	194	126	1900	632	396	442
15	102	204	220	220	266	192	212	131	1790	609	331	415
16	128	191	225	220	243	209	245	220	1780	595	288	393
17	132	176	232	210	231	228	198	279	1860	611	262	295
18	136	169	230	210	233	248	159	328	1630	602	268	271
19	143	175	215	210	236	248	160	489	1510	587	285	316
20	154	170	210	210	221	220	166	706	1640	612	329	326
21	157	162	215	220	219	236	160	636	1680	614	312	307
22	156	174	220	225	223	233	139	510	1540	616	283	292
23	162	184	230	220	234	237	131	595	1550	602	337	294
24	165	186	230	224	219	245	149	906	1350	592	361	263
25	176	190	225	225	230	254	151	1320	1020	584	375	236
26	172	190	225	221	230	250	143	1430	894	603	404	214
27	180	205	230	215	240	256	144	1680	800	620	424	209
28	169	220	230	219	235	242	172	2190	768	704	396	205
29	165	217	235	223	---	227	232	2610	750	709	390	206
30	189	220	230	218	---	218	257	3080	748	623	351	204
31	216	---	225	219	---	215	---	3450	---	546	334	---
TOTAL	4769	5980	6939	6792	6559	7025	6473	22718	50730	19610	12955	9282
MEAN	154	199	224	219	234	227	216	733	1691	633	418	309
AC-FT	9460	11860	13760	13470	13010	13930	12840	45060	100600	38900	25700	18410
MAX	216	226	235	230	287	256	359	3450	3540	755	580	470
MIN	98	162	210	210	209	192	131	119	748	546	262	204
CAL YR 2002	TOTAL	89669	MEAN	246	MAX	472	MIN	98	AC-FT	177900		
WTR YR 2003	TOTAL	159832	MEAN	438	MAX	3540	MIN	98	AC-FT	317000		

MAX DISCH: 3680 CFS AT 12:45 ON May. 31, 2003 GH 9.00 FT. DATUM CORR. -0.01 FT., SHIFT -0.01 FT.
MAX GH: 9.00 FT. (DATUM CORR. -0.01 FT) AT 12:45 ON May. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07097000 ARKANSAS RIVER AT PORTLAND, CO

LOCATION.--Lat 38°23'18", long 105°00'56", in NE¼NE¼ sec. 20, T.19 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on right bank at bridge on State Highway 120 at Portland and 1 mi downstream from Hardscrabble Creek.

DRAINAGE AREA.--4,024 mi².

GAGE.--Sutron 8210 satellite-monitored data collection platform (DCP) and high data rate transmitter (HDR) with shaft encoder and a graphic water-stage recorder in 36-inch diameter CMP shelter and well. Primary record is 8210 data logger with the graphic chart recorder used for backup purposes. Primary reference gage is a drop tape referenced to an adjustable RP mounted on the instrument shelf inside the shelter. A cablecar is suspended from a monorail attached to upstream side of Highway 120 bridge 10-15 feet downstream from gage. USGS Hydrolab monitored by DCP for water temperature and specific conductance.

REMARKS.--Record is complete and reliable except for: December 20 - 27, 2002 and February 7 - 11, 24 - 27, 2003 when ice affected the stage - discharge relationship. Record good, except during periods of estimated flows, which is poor. Station maintained and record developed by Anthony D. Gutierrez.

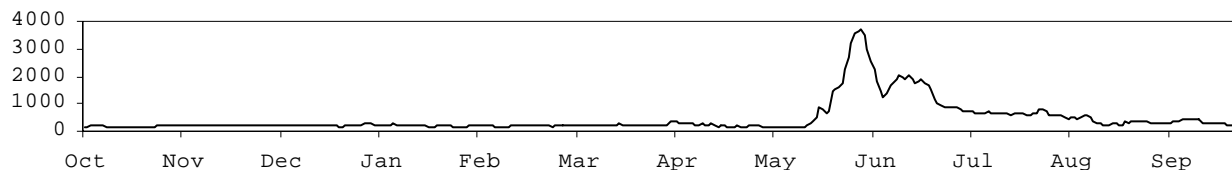
RATING TABLE.--ARKPORCO06 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	221	237	242	184	217	205	198	3660	850	590	296
2	169	240	232	227	188	211	244	170	3740	862	596	255
3	205	232	232	224	193	208	366	156	3460	806	569	256
4	221	226	234	237	200	191	356	165	2980	747	548	273
5	222	218	226	250	186	200	373	159	2560	720	536	269
6	198	217	228	258	186	198	323	155	2280	719	464	285
7	187	213	229	252	165	197	311	157	1850	695	478	279
8	171	228	215	228	161	197	314	157	1450	656	523	339
9	173	227	232	212	150	206	310	142	1220	667	467	372
10	171	227	231	200	173	193	304	150	1360	680	540	354
11	154	228	204	203	177	194	254	154	1650	661	581	466
12	135	212	205	209	197	188	251	151	1770	695	594	470
13	139	207	198	208	209	186	264	144	1900	669	496	442
14	130	221	214	206	230	189	237	150	2060	670	372	456
15	119	239	220	203	222	182	221	162	1930	681	281	421
16	118	227	220	196	206	183	266	245	1900	655	258	403
17	123	209	214	174	196	211	215	317	2060	658	236	323
18	134	201	215	169	195	264	179	359	1870	629	250	277
19	128	208	205	176	213	252	186	526	1770	610	249	298
20	140	209	168	183	200	207	189	855	1790	638	283	325
21	149	204	177	192	198	213	171	818	1880	641	276	302
22	149	209	198	200	198	212	168	648	1710	656	250	296
23	168	216	225	192	207	209	164	751	1680	635	248	298
24	184	224	230	191	188	223	190	1420	1510	601	351	268
25	199	227	220	177	170	237	180	1540	1180	600	320	238
26	191	230	225	173	198	221	171	1630	1000	624	392	223
27	202	216	215	165	203	230	171	1740	918	675	390	210
28	191	206	256	169	210	222	187	2230	882	810	378	211
29	192	226	279	178	---	209	195	2690	857	772	367	213
30	206	227	268	184	---	199	254	3190	855	724	345	200
31	217	---	234	186	---	195	---	3600	---	582	331	---
TOTAL	5220	6595	6886	6264	5403	6444	7219	24929	55732	21288	12559	9318
MEAN	168	220	222	202	193	208	241	804	1858	687	405	311
AC-FT	10350	13080	13660	12420	10720	12780	14320	49450	110500	42220	24910	18480
MAX	222	240	279	258	230	264	373	3600	3740	862	596	470
MIN	118	201	168	165	150	182	164	142	855	582	236	200
CAL YR 2002	TOTAL	85141	MEAN	233	MAX	673	MIN	91	AC-FT	168900		
WTR YR 2003	TOTAL	167857	MEAN	460	MAX	3740	MIN	118	AC-FT	332900		

MAX DISCH: 3820 CFS AT 13:15 ON Jun. 2, 2003 GH 5.93 FT. SHIFT 0 FT.
MAX GH: 5.93 FT. AT 13:15 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO

LOCATION.--Lat 38°16'18", long 104°43'03", in SE¼NE¼ sec. 36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on left bank of Arkansas River, 200' downstream from NE corner of Arkansas River bridge, approx. 0.4 mi. downstream from Pueblo Dam, and 7 mi. West of Pueblo.

DRAINAGE AREA AND PERIOD OF RECORD.--4,670 mi². October 1965 to current year. Periodic water quality and sediment data available Oct. 1965 to current year.

GAGE.--Satellite-monitored data collection platform (high data rate Sutron 8210 DCP), Sutron Accububble, shaft encoder and chart recorder in a 4 ft x 4 ft concrete block shelter over a stilling well. Primary record is the DCP log of accububble data with the graphic chart recorder and shaft encoder used for backup purposes when the stilling well is not isolated (gage height 1.80 ft and below). Primary reference gage is outside staff gage for lower flows (maximum gage height of 2.69 feet), and an electric drop tape referenced to a fixed index mounted on the instrument shelf inside the shelter when well has contact to the river (gage height 1.80 feet and above). Cableway approximately 20 feet upstream from gage. USGS Hydrolab monitored by DCP. Elevation of gage is 4740 ft above NGV Datum of 1929 (from topographic map).

REMARKS.--Record is complete and reliable except for the following periods: October 1- 3, 2002 due to a fitting leak in the accububble and well was isolated. October 29-30, 2002 due to DCP malfunction and well was isolated. March 31-April 1, 2003 due to battery failure and well was isolated. August 23-26, 2003 when accububble malfunctioned. Record good. Reservoir operations data were used when DCP and/or accububble problems were experienced and backup record from the chart or shaft encoder was not available. Station maintained and record developed by Anthony D. Gutierrez.

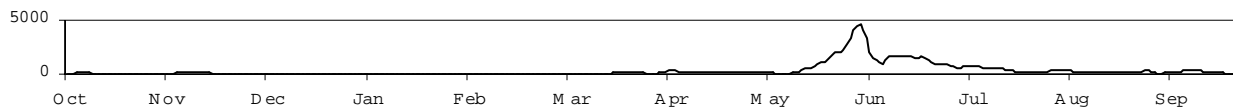
RATING TABLE.--ARKPUECO17 USED FROM 01-OCT-2002 TO 16-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	82	.46	1.3	20	27	91	181	4020	816	280	223
2	.55	82	.45	1.3	21	27	211	144	4530	759	400	165
3	25	82	.57	1.2	21	27	239	142	4690	607	376	91
4	103	93	.57	1.3	22	28	256	142	4160	581	367	84
5	103	102	.57	1.3	22	27	290	156	3400	690	368	105
6	104	102	.61	1.4	23	27	309	165	2100	693	383	117
7	103	103	.64	1.4	22	27	310	165	1570	692	387	133
8	95	103	.59	1.5	23	27	261	69	1260	689	197	167
9	53	103	.63	1.7	23	27	237	37	1020	689	141	214
10	32	103	.66	1.7	23	27	237	60	953	685	141	255
11	26	103	.75	1.6	26	27	233	55	1360	567	138	285
12	8.7	103	.82	1.7	27	27	224	55	1590	502	138	328
13	1.3	103	.71	1.7	27	28	224	178	1630	499	136	342
14	1.3	93	.68	1.8	27	27	213	252	1710	523	145	332
15	4.6	1.5	.67	1.6	27	27	196	269	1710	556	149	331
16	9	.84	.73	8.3	27	27	196	357	1700	516	135	297
17	1	.62	.65	20	26	27	196	559	1650	488	135	220
18	1	.6	.76	20	27	58	178	589	1590	428	136	137
19	1.1	.47	.79	20	27	108	232	639	1600	393	136	113
20	1.1	.53	.77	20	27	160	232	758	1450	303	136	146
21	1.1	.52	.77	20	27	180	210	952	1520	262	135	151
22	1.1	.45	.81	20	27	180	211	1030	1620	264	135	126
23	8.5	.5	.96	20	28	180	229	1080	1390	264	135	113
24	15	.52	1	20	28	147	230	1260	1210	243	135	88
25	15	.56	1.1	20	27	126	210	1580	1110	217	160	66
26	16	.46	1	20	27	125	139	1990	973	186	185	48
27	16	.5	.92	20	27	126	140	2030	893	176	184	42
28	33	.54	1	20	27	104	141	2010	892	192	203	40
29	60	.5	1.1	20	---	89	142	2220	893	241	237	40
30	82	.5	1.2	20	---	69	175	2690	859	263	309	40
31	82	---	1.3	20	---	56	---	3290	---	247	278	---
TOTAL	1003.9	1366.61	24.24	330.8	706	2169	6392	25104	55053	14231	6520	4839
MEAN	32.4	45.6	.78	10.7	25	70	213	810	1835	459	210	161
AC-FT	1990	2710	48	656	1400	4300	12680	49790	109200	28230	12930	9600
MAX	104	103	1.3	20	28	180	310	3290	4690	816	400	342
MIN	.55	.45	.45	1.2	20	27	91	37	859	176	135	40

CAL YR 2002 TOTAL 51811.06 MEAN 142 MAX 870 MIN .45 AC-FT 102800
WTR YR 2003 TOTAL 117739.55 MEAN 323 MAX 4690 MIN .45 AC-FT 233500

MAX DISCH: 4760 CFS AT 05:15 ON Jun. 3, 2003 GH 7.2 FT. SHIFT 0.3 FT.
MAX GH: 7.2 FT. AT 05:15 ON Jun. 3, 2003
FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07111000 HUERFANO RIVER AT MANZANARES CROSSING NEAR REDWING, CO

LOCATION.--Lat 37°43'40", long 105°21'03", in sec 5, T.27 S., R.71 W., Huerfano County, on left bank at Manzanares crossing, 500 ft downstream from private bridge, .2 mi downstream from Manzanares Creek, and 3.5 mi southwest of Redwing.

DRAINAGE AREA.--73 mi².

GAGE.--Sutron model 8210 satellite-monitored data collection platform (DCP) with shaft encoder and graphic water-stage recorder, inside a 48-inch diameter corrugated metal pipe (CMP) shelter and well. Shaft encoder and chart set to inside electric tape gage. DCP logger is primary record with DCP data and A-35 chart record used for back-up purposes. A temperature sensor was installed November 5 and started on November 27, 2002.

REMARKS.--Record complete and reliable except for the following periods: November 10-12, 14-16, 18-28, 30; December 1-13 and 17-29, 2002, and January 1, 2, 5-9, 12, 13, 16-21, 26, 29; February 3-12, 18-28; March 1-11, 18-20, 22-24, 29-30; and April 4-8, 2003 when the stage-discharge relationship was affected by ice in the well and or the river. Record fair except for periods of ice effect, which should be considered poor. Station maintained and record developed by Anthony D. Gutierrez.

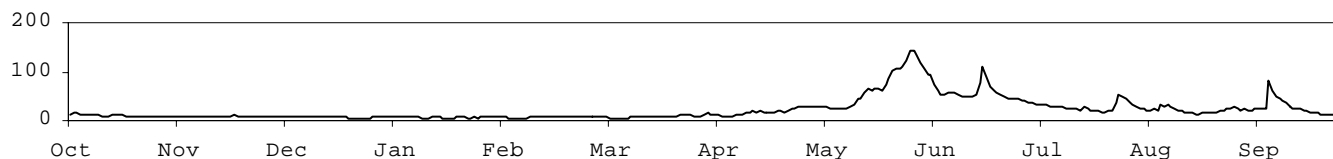
RATING TABLE.--HURREDCO23 USED FROM 01-OCT-2002 TO 16-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	9.2	7.2	7.6	6.3	6.8	12	29	134	41	37	24
2	17	9.4	7.2	7.4	6.3	6.8	15	29	118	39	33	20
3	15	8.4	7.2	7.1	6.2	6.6	14	29	106	38	29	23
4	14	8.7	7	7.9	6.1	6.4	12	29	95	36	26	21
5	13	9.2	7	8	6	6	11	27	92	34	23	19
6	12	8.4	7	7.7	6	6	9.8	27	74	33	21	24
7	12	8.6	7	7.5	6	6	9.3	26	60	32	19	24
8	11	9.2	7	7.1	6	6	9.5	26	53	31	23	24
9	11	9.8	7	7	6	6	9.6	25	54	30	21	25
10	10	8.4	7	5.8	6.2	6	12	26	56	29	33	80
11	10	8	7	5.9	6.4	6.4	14	25	57	27	29	62
12	10	8.6	7	6.1	7.2	8.2	13	26	56	27	32	51
13	11	10	6.6	6.4	9.4	8.8	15	30	52	27	28	46
14	11	9	6.2	6.3	8.7	9.3	17	32	50	26	24	42
15	11	9	6.3	6.3	9	9.4	21	43	51	25	22	36
16	11	9.3	6.6	6	9.7	9.1	18	43	51	24	20	30
17	10	11	6.4	5.9	9.7	8.5	19	56	48	24	18	26
18	10	9.8	6.4	6	9	8.7	18	66	54	22	17	25
19	9.8	9.6	6.4	6.1	8.5	9	18	62	79	30	16	23
20	9.5	9	6	6.3	8	9.1	17	64	109	24	14	21
21	9.4	8.6	6	6.5	8.4	9.2	17	66	88	21	14	19
22	9.5	8.6	6	6.7	8.4	9.5	20	63	71	19	15	18
23	9.9	8.4	6	6	8	10	20	75	62	19	17	16
24	9.6	8.4	6	6	8	10	18	84	56	18	15	15
25	9.2	8	6	6.2	7.8	11	21	103	52	18	16	14
26	9.4	8	6	6	7.8	11	25	105	49	20	18	13
27	9.6	7.6	6.2	6.2	7	12	26	105	46	20	22	13
28	9.2	7.2	6.2	6.3	7	11	27	110	45	37	22	13
29	9.4	7	6.6	6.5	---	10	29	121	44	55	25	13
30	8.4	7.2	7.7	7.6	---	9.5	29	142	43	50	26	13
31	9.1	---	7.8	6.3	---	9.3	---	144	---	44	28	---
TOTAL	334	261.6	206	204.7	209.1	261.6	516.2	1838	2005	920	703	793
MEAN	10.8	8.7	6.7	6.6	7.5	8.4	17.2	59	67	30	23	26
AC-FT	662	519	409	406	415	519	1020	3650	3980	1820	1390	1570
MAX	17	11	7.8	8	9.7	12	29	144	134	55	37	80
MIN	8.4	7	6	5.8	6	6	9.3	25	43	18	14	13
CAL YR 2002	TOTAL	3061.9	MEAN	8.39	MAX	19	MIN	2.1	AC-FT	6070		
WTR YR 2003	TOTAL	8252.2	MEAN	22.6	MAX	144	MIN	5.8	AC-FT	16370		

MAX DISCH: 156 CFS AT 01:15 ON May. 31, 2003 GH 3.42 FT. SHIFT -0.09 FT. DATUM CORR -0.01 FT.
MAX GH: 3.42 FT. (DATUM CORR. -0.01 FT.) AT 01:15 ON May. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07114000 CUCHARAS RIVER AT BOYD RANCH NEAR LA VETA, CO

LOCATION.--Lat 37°25'12", long 105°03'08", in SE¼NE¼SE¼ sec. 24, T.30 S., R.69 W., Huerfano County, on left bank at Boyd Ranch, 29 ft. downstream from private bridge, 1.4 mi downstream from Chaparral Creek, and 6.5 mi southwest of La Veta.

DRAINAGE AREA.--56 mi².

GAGE.--Sutron model 8210 satellite-monitored data collection platform (DCP) with a High Data Rate (HDR) radio transmitter, with shaft encoder and graphic water-stage recorder in a 42-inch diameter corrugated metal pipe (CMP) shelter over 48-inch corrugated pipe well. Shaft encoder and chart are set using a drop-tape from a reference mark on the front of the equipment shelf. DCP log is primary record with graphic chart record and satellite data used for back-up purposes. A temperature sensor was installed November 5, 2002 and was started in use on November 27, 2002. The outside staff gage is not currently being used and needs to be reset.

REMARKS.--Record is complete and reliable except for the following periods: November 10 - 13, 16 - 30; December 1 - 31, 2002; January 1 -12, 14, 16 - 22, 26, 29; February 4 - 12, 16 - 28; March 1 - 4, 6 - 10, 18 - 22, 27 - 30; and April 7 - 9, 2003 when the stage-discharge relationship was affected by ice in the well and river channel. Record considered good, except during periods of ice effect, which is poor. Station maintained and record developed by Anthony Gutierrez.

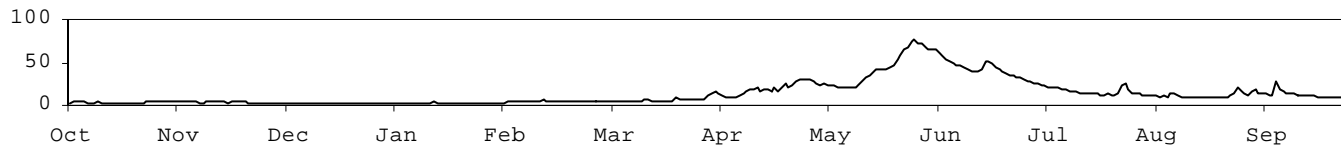
RATING TABLE.--CRBRLVCO14 USED FROM 01-OCT-2002 TO 16-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	4.6	3.4	3.2	3.2	3.8	11	28	72	29	14	13
2	5.7	4.3	3.4	3.3	3.4	3.6	15	25	68	28	13	11
3	5.1	4.2	3.2	3.3	3.7	3.6	16	24	65	26	12	16
4	4.5	4.1	3.2	3.3	3.6	3.6	13	25	64	25	11	19
5	3.6	3.9	3.2	3.3	3.6	3.7	11	23	66	24	11	15
6	3.4	3.5	3.2	3.4	3.6	3.7	10	23	61	23	11	14
7	3.4	3.3	3.2	3.4	3.7	3.7	8.5	23	58	22	11	13
8	3.4	3.1	3.3	3.4	3.7	3.8	8.2	22	54	21	10	11
9	3.6	4.1	3.3	3.4	3.7	3.8	9.1	21	51	21	11	11
10	3.4	4	3.3	3.4	3.7	4	12	21	48	20	10	28
11	3.2	3.8	3.3	3.3	3.7	4.9	14	20	47	19	13	19
12	3.2	3.7	3.3	3.3	4.3	5.2	16	20	46	18	15	17
13	3.4	3.7	3.3	3.5	7.8	5.4	18	22	44	17	12	15
14	3.4	3.8	3.3	3.3	5.4	5.9	19	24	42	16	10	15
15	3.4	3.3	3.3	3.1	5	6.1	20	29	39	16	10	13
16	3.4	3.5	3.3	3.1	4.6	5.7	17	32	39	15	9.6	12
17	3	3.7	3.3	3.1	4.5	5.1	18	35	39	15	9.2	12
18	3.1	3.7	3.3	3.1	4.2	4.2	18	37	41	13	9	12
19	3.1	3.7	3.3	3.1	4.2	4.2	16	43	51	13	9.1	12
20	3.2	3.6	3.3	3.1	4.2	4.5	20	42	52	14	8.5	11
21	3.3	3.4	3.3	3.1	4.2	4.5	17	41	49	13	8.4	11
22	3.4	3.2	3.1	3.1	4.2	4.5	21	41	45	12	8.7	10
23	3.8	3	3.1	3.1	4.2	8.2	25	44	43	12	9.7	10
24	3.9	3	3.1	3.1	4.2	7.3	22	46	40	14	9.2	10
25	3.5	3.1	3.1	3.1	4.2	7	24	54	38	12	8.9	10
26	3.5	3.4	3.2	3.2	4.1	8	29	59	36	12	9.7	10
27	4.1	3.4	3.2	3.3	4.1	7.8	31	64	34	13	9.4	10
28	3.8	3.4	3.2	3.3	4	7.6	30	68	33	23	11	10
29	4.1	3.4	3.2	3.1	---	7.5	31	75	32	25	13	10
30	4.2	3.4	3.2	3.2	---	7.5	31	77	30	19	22	10
31	4.6	---	3.2	3.2	---	7.6	---	73	---	15	17	---
TOTAL	113.4	108.3	100.6	100.2	117	166	550.8	1181	1427	565	346.4	390
MEAN	3.7	3.6	3.3	3.2	4.2	5.4	18.4	38	48	18	11.2	13
AC-FT	225	215	200	199	232	329	1090	2340	2830	1120	687	774
MAX	5.7	4.6	3.4	3.5	7.8	8.2	31	77	72	29	22	28
MIN	2.7	3	3.1	3.1	3.2	3.6	8.2	20	30	12	8.4	10
CAL YR 2002	TOTAL	1380.38	MEAN	3.78	MAX	14	MIN	.36	AC-FT	2740		
WTR YR 2003	TOTAL	5165.7	MEAN	14.2	MAX	77	MIN	2.7	AC-FT	10250		

MAX DISCH: 80.8 CFS AT 22:30 ON May. 29, 2003 GH 1.34 FT. SHIFT 0.04 FT. DATUM 0.01 FT.
MAX GH: 1.34 FT. (DATUM CORR. 0.01 FT) AT 22:30 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

CUCHARAS RIVER AT HARRISON BRIDGE NEAR LA VETA, CO (WY2001)

LOCATION.--Lat 37° 33' 02", Long 104° 56' 11", in the NE¼ SW¼ Sec.6, T29S, R67W Huerfano County, on right bank at the Valley Road Harrison Bridge crossing of Cucharas River approximately ¼ mile south of the intersection of Valley Road and Highway 160.

DRAINAGE AREA.-- N/A.

GAGE.--Sutron 8210 data collection platform (DCP) and shaft encoder. The DCP and shaft encoder are housed inside of a 20" x 30" metal shelter atop a stilling well attached to the center bridge pier. Primary reference gage is a drop tape from a reference mark on the bridge guardrail 20 feet to the right of the stilling well. DCP log is primary record with satellite data used for back-up purposes. Gage was installed October 12-13, 2000 and started in used on October 13, 2000. Elevation of gage is 6654 ft MSL from topographic map.

REMARKS.--Record is complete and reliable except for the following periods: October 1 - 13, 2000 when no recording equipment was installed at the gage site; November 15-21, 24-27; December 2-8, 18-29, 2000; January 5-14, February 6, 11-17, 25, 2001, when the stage-discharge relationship was affected by ice. December 30-31, 2000; January 1-4, 15-31, February 1-5, 2001, when ice in the well affected the float movement or the well was frozen. Record considered fair, except during periods of ice effect periods of missing record, and periods when flow was greater than 25 cfs, all of which are poor. Station maintained and record developed by Anthony D. Gutierrez.

RATING TABLE.--CRHBLVCO01 USED FROM 01-OCT-2000 TO 30-SEP-2001

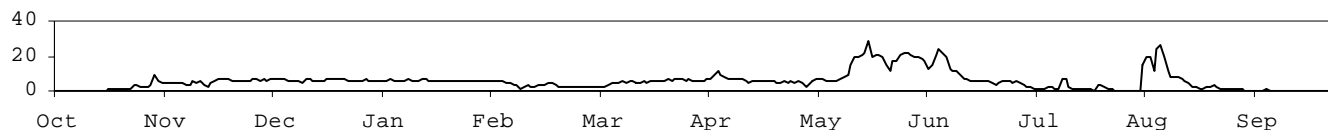
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.5	4.6	6.6	6.1	5.6	2.7	5.3	4.3	21	5.2	.53	1.7
2	.5	5	6.6	6.2	5.5	2.8	5.4	2.6	19	4.6	.45	1.3
3	.5	4.3	6.7	6.1	5.3	2.7	6.1	3.1	19	3.7	.28	.85
4	.5	4.9	6.5	6.3	5.4	2.7	7	5.8	18	2.2	.05	.56
5	.5	4.5	6.4	6	5.3	2.8	7	7.2	17	1.9	.06	.28
6	.5	4.1	6.1	6.1	5	2.3	9.4	6.6	13	1.3	15	.15
7	.5	3.1	6.1	6.2	4.4	3.2	11	6.8	15	.86	20	.08
8	.5	3.3	6	6.2	3.6	4.6	8.9	5.6	21	.74	19	.07
9	.5	5.7	6	6.3	2.9	4.6	7.5	5.7	24	.75	11	.49
10	.5	5.1	5.1	6.1	1.5	4.5	6.9	5.8	22	1.9	24	.6
11	.5	5.2	6.4	6.1	2	5.3	6.9	5.8	19	2.2	26	.23
12	.5	3.7	6.3	6.2	3	5.1	7	7.2	13	1.5	20	.08
13	.5	2.7	5.8	6.3	2.8	5.4	6.8	7.6	11	1	11	.07
14	.45	5	5.6	6.3	2.7	5.4	6.5	9.3	12	6.8	8.5	.09
15	.56	6	5.8	6.1	2.9	4.9	5.2	15	9.4	6.3	7.9	.08
16	.68	6.5	5.3	6	3	5	4.7	19	7.4	2.7	7.7	.07
17	.61	6.7	6.5	5.9	3.5	5.4	5.2	20	6.6	1.5	6.6	.07
18	.6	6.9	6.6	5.8	4.8	5.1	5.6	21	5.4	.77	5.8	.07
19	.6	6.5	6.7	5.7	4.1	5.5	5.4	22	5.4	.76	4.4	.07
20	1.3	6	6.8	5.8	3.2	5.3	5.2	29	5.7	.73	2.2	.07
21	.92	5.7	6.7	5.7	2.6	5.3	5.6	20	5.6	.69	1.8	.07
22	.97	5.4	6.5	5.5	2.4	6.1	5.5	21	5.5	.65	1.1	.07
23	3.1	5.6	6.2	5.6	2.5	5.7	5.5	21	5.6	.53	.79	.07
24	2.9	6	6.2	5.5	2.5	6.4	5	19	5	3.6	2	.06
25	2.7	6.2	6.1	5.4	2.6	6	4.9	15	3.7	3	2.2	.06
26	1.9	6.4	6.1	5.2	2.1	6.6	5.3	12	5	1.9	3.5	.06
27	1.8	6.3	6	5.3	2.5	7.1	5.1	17	5.5	1.2	2.1	.06
28	3.6	5.5	6.3	5.5	2.6	6.4	5.2	17	5.4	.77	1.4	.06
29	9.2	6.4	6.2	5.4	---	5.8	5.1	21	5.6	.52	1.3	.06
30	5.9	5.4	6	5.3	---	6.7	5.3	22	4.9	.44	1.2	.06
31	4.9	---	6.2	5.5	---	5.9	---	22	---	.45	1.4	---
TOTAL	49.19	158.7	192.4	181.7	96.3	153.3	185.5	416.4	335.7	61.16	209.26	7.61
MEAN	1.59	5.3	6.2	5.9	3.4	5	6.2	13.4	11.2	1.97	6.75	.25
AC-FT	98	315	382	360	191	304	368	826	666	121	415	15
MAX	9.2	6.9	6.8	6.3	5.6	7.1	11	29	24	6.8	26	1.7
MIN	.45	2.7	5.1	5.2	1.5	2.3	4.7	2.6	3.7	.44	.05	.06

CAL YR	2000	TOTAL	NA	MEAN	NA	MAX	NA	MIN	NA	AC-FT	NA
WTR YR	2001	TOTAL	2047.22	MEAN	5.61	MAX	29	MIN	.05	AC-FT	4060

MAX DISCH: 105 CFS AT 17:45 ON Aug. 10, 2001 GH 2.67 FT. SHIFT 0.41 FT.
MAX GH: 2.67 FT. AT 17:45 ON Aug. 10, 2001

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

CUCHARAS RIVER AT HARRISON BRIDGE NEAR LA VETA, CO (WY2002)

LOCATION.--Lat 37° 33' 02", Long 104° 56' 11", in the NE¼ SW¼ Sec.6, T29S, R67W Huerfano County, on right bank at the Valley Road Harrison Bridge crossing of Cucharas River approximately ¼ mile south of the intersection of Valley Road and Highway 160.

DRAINAGE AREA.-- N/A.

GAGE.--Sutron 8210 data collection platform (DCP) and shaft encoder. The DCP and shaft encoder are housed inside of a 20" x 30" metal shelter atop a stilling well attached to the center bridge pier. Primary reference gage is a drop tape from a reference mark on the bridge guardrail 20 feet to the right of the stilling well. DCP log is primary record with satellite data used for back-up purposes. A new 4' x 4' steel shelter was installed on high ground approximately 150 ft south of the right bank in June 2002. The DCP antenna, solar panel and battery were moved to the new shelter and a data cable to the shaft encoder installed on June 26, 2002. Elevation of gage is 6654 ft MSL from topographic map.

REMARKS.--Record is complete and reliable except for the following periods: November 24-26; December 2-30, 2001; January 8-18, 22-29; February 7-23; March 1, 6-11, 17, 2002, when the stage-discharge relationship was affected by ice in river channel; Dec 31, 2001; January 1-7, 19-21, 30-31; February 1-6; March 2-5, 2002 when the well was frozen and/or ice in the well affected float movement. Record considered fair, except during periods of ice effect, which is poor. Station maintained and record developed by Anthony D. Gutierrez.

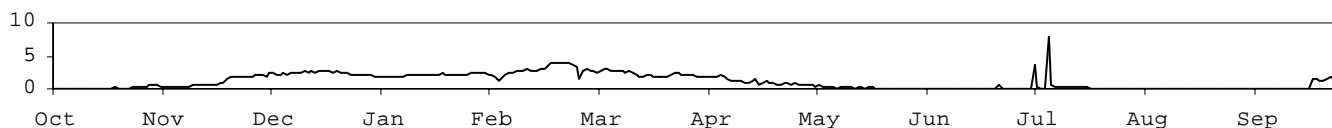
RATING TABLE.--CRHBLVCO01 USED FROM 01-OCT-2001 TO 30-SEP-2002

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.34	2.4	1.9	2.2	2.9	1.9	.62	.06	.05	.08	0
2	.06	.25	2.3	1.8	2.2	2.8	1.7	.53	.05	.05	.07	.01
3	.07	.32	2.2	1.8	1.8	2.7	1.8	.55	.06	.05	.07	.01
4	.06	.39	2.2	1.7	1.2	2.5	1.7	.49	.06	.06	.06	0
5	.07	.39	2.3	1.8	1.7	2.7	1.7	.45	.06	.06	.05	0
6	.07	.39	2.2	1.9	2.1	3.1	1.7	.46	.06	3.6	.04	0
7	.07	.36	2.3	1.8	2.3	2.9	1.7	.43	.05	.21	.04	0
8	.07	.44	2.3	1.9	2.4	2.8	2	.22	.05	.06	.04	0
9	.07	.47	2.4	2	2.6	2.7	1.9	.21	.05	.06	.03	.01
10	.07	.48	2.5	2	2.8	2.8	1.5	.19	.05	8	.03	.01
11	.07	.64	2.6	2.1	2.7	2.6	1.3	.14	.05	.47	.02	.01
12	.12	.64	2.5	2.2	2.9	2.5	1.2	.19	.05	.2	.02	.01
13	.09	.57	2.6	2.1	2.7	2.6	1.2	.28	.05	.2	.02	.01
14	.08	.61	2.5	2.2	2.6	2.3	1.1	.3	.06	.2	.02	.01
15	.08	.68	2.6	2.1	2.7	2.1	.97	.2	.05	.19	.02	.01
16	.08	.68	2.7	2	2.9	1.7	.92	.15	.05	.19	.02	.01
17	.11	.81	2.7	2.1	3.1	1.9	1.2	.17	.05	.18	.02	.01
18	.19	.98	2.6	2.2	3.5	2.2	1.5	.16	.05	.18	.02	.01
19	.11	1.5	2.5	2.3	4	2.1	.75	.15	.05	.17	.02	.01
20	.1	1.8	2.6	2.2	3.9	1.7	.8	.17	.05	.16	.01	.01
21	.09	1.7	2.5	2.2	4	1.8	1.2	.18	.05	.16	.01	.01
22	.12	1.9	2.4	2.1	3.9	1.9	.9	.11	.05	.15	.01	.01
23	.16	1.9	2.3	2.2	3.8	1.8	.78	.08	.05	.14	.01	1.5
24	.17	1.9	2.2	2.1	4	1.7	.72	.09	.05	.13	.01	1.5
25	.25	1.9	2.1	2.2	3.7	2.1	.73	.1	.05	.13	.01	1.1
26	.44	1.9	2	2.2	3.3	2.5	.77	.07	.51	.12	.01	1.1
27	.43	2	2.1	2.3	1.6	2.5	.85	.07	.09	.12	.01	1.5
28	.48	2	2.2	2.4	2.8	2.1	.56	.07	.05	.11	.01	1.8
29	.54	2	2.1	2.5	---	2	.78	.06	.05	.1	.01	1.5
30	.54	1.8	2	2.4	---	2.1	.73	.06	.05	.1	0	1.2
31	.43	---	1.9	2.3	---	2.2	---	.06	---	.09	.01	---
TOTAL	5.35	31.74	72.8	65	79.4	72.3	36.56	7.01	2.06	15.69	.8	11.36
MEAN	.17	1.06	2.4	2.1	2.8	2.3	1.22	.23	.07	.51	.03	.38
AC-FT	11	63	144	129	157	143	73	14	4.1	31	1.6	23
MAX	.54	2	2.7	2.5	4	3.1	2	.62	.51	8	.08	1.8
MIN	.06	.25	1.9	1.7	1.2	1.7	.56	.06	.05	.05	0	0
CAL YR 2001	TOTAL	1756.82	MEAN	4.81	MAX	29	MIN	0.05	AC-FT	3480		
WTR YR 2002	TOTAL	400.07	MEAN	1.1	MAX	8	MIN	0	AC-FT	794		

MAX DISCH: 306 CFS AT 19:15 ON Jul. 10, 2002 GH 3.35 FT. SHIFT 0.41 FT.
MAX GH: 3.35 FT. AT 19:15 ON Jul. 10, 2002

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

CUCHARAS RIVER AT HARRISON BRIDGE NEAR LA VETA, CO (WY2003)

LOCATION.--Lat 37° 33' 02", Long 104° 56' 11", in the NE¼ SW¼ Sec.6, T29S, R67W Huerfano County, on right bank at the Valley Road Harrison Bridge crossing of Cucharas River approximately ¾ mile south of the intersection of Valley Road and Highway 160.

DRAINAGE AREA.-- N/A.

GAGE.--Sutron 8210 data collection platform (DCP) and shaft encoder. The shaft encoder is housed inside of a 20" x 30" metal shelter atop an 18-inch stilling well attached to the center bridge pier. DCP is in a 4' x 4' steel shelter approximately 150 feet south of the right bank. Primary reference gage is a drop tape from a reference mark on the bridge guardrail 20 feet to the right of the stilling well. DCP log is primary record with satellite data used for back-up purposes. Elevation of gage is 6654 ft MSL from topographic map.

REMARKS.--Record is complete and reliable except for the following periods: November 5, 6, 12, 13, 16, 17, 19, 29, 30; December 1, 2, 5-10, 13-18, 31, 2002; January 1-2, 9-22; February 19-22; March 4, 7, 8, 27-29, 2003, when the stage-discharge relationship was affected by ice in river channel; Dec 19-30, 2002; February 1-13, 23-28; March 1-3, 5-6, 2003, when the well was frozen and/or ice in the well affected float movement. Record considered fair, except during periods of ice effect and periods when discharge was greater than 50 cfs, which should be considered poor. Station maintained and record developed by Anthony D. Gutierrez.

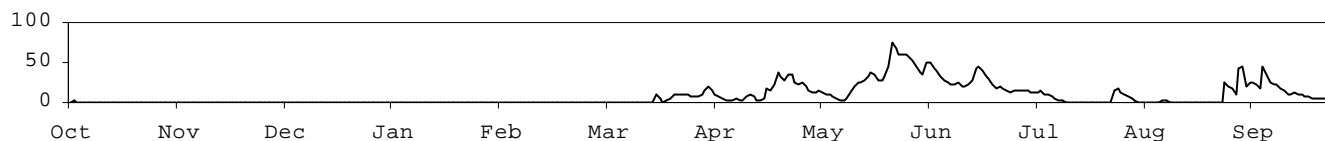
RATING TABLE.--CRHBLVCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	.04	.01	0	.02	.07	9	21	53	15	10	17
2	1.4	.05	.02	0	.02	.06	14	15	46	15	8.6	10
3	.77	.08	.02	0	.02	.04	21	13	38	15	4.2	42
4	.38	.06	.02	0	.02	.03	14	13	36	14	2.4	45
5	.22	.06	.02	0	.02	.02	9.2	15	49	13	1.1	21
6	.03	.03	.02	.1	.02	.02	7.8	13	51	13	.59	24
7	.01	.02	.02	.07	.02	.3	6.1	11	42	12	.39	24
8	0	.02	.02	.02	.02	.04	3.4	9.4	40	14	.31	23
9	0	.02	.02	.02	.02	.05	2.4	7.9	33	11	.35	17
10	.04	.02	.02	.02	.02	.04	2.8	4	27	9.7	.85	44
11	.03	.02	.02	.02	.02	.06	4.1	2.7	25	7.6	.59	36
12	.02	.02	.03	.02	.02	.08	3.2	2.3	23	5.3	1.8	26
13	.02	.02	.02	.02	.02	.07	2.9	6.2	23	3.4	1.4	23
14	.02	.02	.02	.02	.27	.05	6.5	12	24	1.8	.62	22
15	.02	.02	.02	.02	.59	.14	9.5	19	21	1.1	.2	17
16	.02	.02	.02	.02	.3	.35	7.8	24	19	.79	.05	14
17	.02	.02	.02	.02	.13	.31	3.1	24	22	.74	.02	11
18	.02	.02	.02	.02	.16	.54	2.2	27	28	.43	.03	11
19	.02	.02	.02	.02	.18	.9	5.2	33	43	.21	.02	13
20	.02	.02	.02	.02	.11	4.3	17	37	46	.2	.02	10
21	.02	.02	.02	.02	.15	.65	15	35	39	.13	.01	9.4
22	.02	.02	.02	.02	.2	1.5	23	28	33	.09	.01	7.4
23	.02	.02	.02	.02	.18	4.5	38	28	29	.09	.01	7.9
24	.04	.02	.02	.02	.12	9.7	32	32	22	.06	.01	5.6
25	.03	.02	.02	.02	.1	11	28	46	18	.05	.01	4.5
26	.02	.02	.02	.02	.08	9.9	34	75	19	.05	.02	4.4
27	.02	.02	.02	.02	.06	9.5	36	67	17	.06	.02	4.1
28	.03	.02	.02	.02	.07	.9	26	60	14	.23	.02	4.3
29	.04	.01	.02	.02	---	7.1	22	59	13	15	.04	4.3
30	.07	.01	.02	.02	---	6.3	26	59	15	17	24	4.1
31	.05	---	.02	.02	---	7.5	---	55	---	13	20	---
TOTAL	4.05	.78	.62	.65	2.96	92.22	431.2	853.5	908	199.03	77.69	506
MEAN	.13	.03	.02	.02	.11	2.97	14.4	27.5	30	6.42	2.51	16.9
AC-FT	8	1.5	1.2	1.3	5.9	183	855	1690	1800	395	154	1000
MAX	1.4	.08	.03	.1	.59	11	38	75	53	17	24	45
MIN	0	.01	.01	0	.02	.02	2.2	2.3	13	.05	.01	4.1
CAL YR 2002	TOTAL	295.63	MEAN	0.81	MAX	8	MIN	0	AC-FT	590		
WTR YR 2003	TOTAL	3076.7	MEAN	8.43	MAX	75	MIN	0	AC-FT	6100		

MAX DISCH: 257 CFS AT 20:30 ON Sep. 3, 2003 GH 3.38 FT. SHIFT 0.38 FT. DATUM CORRECTION = -0.12 FT.
MAX GH: 3.38 FT. (DATUM CORR. = -0.12 FT.) AT 20:30 ON Sep. 3, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

OXFORD FARMERS DITCH NEAR NEPESTA, CO

LOCATION.--Lat 38° 10' 34", Long 104° 8' 42", in the NE¼ NW¼ SW¼ Sec.32, T21S, R60W Pueblo County, Hydrologic Unit 11020005, approximately 0.33 mi upstream from Arkansas River at Nepesta Rd. Bridge river gage.

DRAINAGE AREA.-- N/A.

GAGE.--Float-activated graphic water-stage recorder and shaft encoder in wood frame shelter with well. Shaft encoder monitored by SDI Radio Bridge to Sutron 8210 DCP at Arkansas River at Nepesta Road Bridge near Nepesta CO gaging station until August 20, 2003. SatLink DCP/logger installed August 20, 2003. Primary record is satellite-monitored data with chart recorder data and DCP log used for backup purposes. Twelve-foot standard concrete Parshall flume is the control. Primary reference gage is outside staff gage installed in flume.

REMARKS.--Record is complete and reliable. Record fair. The Arkansas River near Nepesta CO gaging station was moved from above the Oxford Farmers Ditch diversion to the Nepesta Road Bridge below the Oxford diversion beginning October 1, 2000. For consistency and comparison with previously published historical record in this reach of the Arkansas River, the Oxford Ditch mean daily discharge is combined with the mean daily discharge measured at Arkansas River at Nepesta Road Bridge near Nepesta CO gaging station. Record developed by Div. II personnel.

RATING TABLE.--STD12FTPF USED FROM 01-OCT-2002 TO 30-SEP-2003

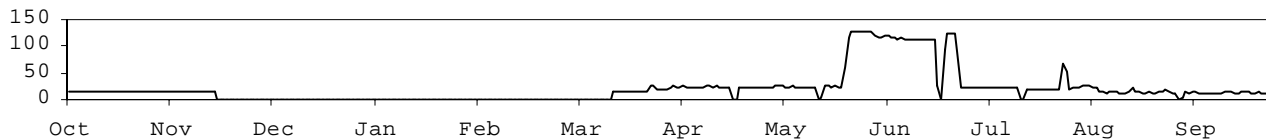
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	15	0	0	0	0	24	23	126	22	21	11
2	15	15	0	0	0	0	25	24	121	22	21	0
3	14	15	0	0	0	0	23	25	117	23	22	3.6
4	14	15	0	0	0	0	23	25	118	23	25	14
5	15	15	0	0	0	0	25	25	121	23	27	13
6	14	15	0	0	0	0	24	24	120	24	25	14
7	14	14	0	0	0	0	24	24	118	23	24	14
8	14	14	0	0	0	0	24	25	116	23	23	13
9	15	14	0	0	0	0	24	24	114	23	15	13
10	15	14	0	0	0	0	24	24	115	23	16	13
11	15	14	0	0	0	0	24	24	114	23	11	13
12	15	15	0	0	0	0	25	23	113	23	14	13
13	15	15	0	0	0	0	25	24	112	23	14	13
14	15	14	0	0	0	0	24	24	112	24	14	12
15	15	0	0	0	0	15	25	23	112	23	13	13
16	15	0	0	0	0	14	24	0	111	0	13	14
17	15	0	0	0	0	14	24	2.1	111	1.8	13	14
18	14	0	0	0	0	14	24	25	111	19	14	14
19	14	0	0	0	0	14	24	25	111	19	24	13
20	14	0	0	0	0	14	0	24	111	19	14	13
21	14	0	0	0	0	14	1.4	25	25	18	14	14
22	14	0	0	0	0	14	24	24	0	19	13	14
23	14	0	0	0	0	14	24	24	92	19	13	14
24	14	0	0	0	0	14	24	61	122	19	14	13
25	15	0	0	0	0	14	23	117	123	19	13	13
26	15	0	0	0	0	28	23	126	124	19	13	14
27	14	0	0	0	0	26	23	126	90	19	14	13
28	15	0	0	0	0	20	23	127	23	19	14	13
29	15	0	0	0	---	20	23	128	23	67	17	13
30	15	0	0	0	---	20	23	128	23	54	16	13
31	15	---	0	0	---	20	---	128	---	20	13	---
TOTAL	452	204	0	0	0	289	670.4	1451.1	2949	695.8	517	374.6
MEAN	15	6.8	0	0	0	9.32	22.3	46.8	98.3	22.4	17	12.5
AC-FT	897	405	0	0	0	573	1330	2880	5850	1380	1030	743
MAX	15	15	0	0	0	28	25	128	126	67	27	14
MIN	14	0	0	0	0	0	0	0	0	0	11	0

CAL YR 2002 TOTAL 4610.9 MEAN 12.6 MAX 66 MIN 0 AC-FT 9150
WTR YR 2003 TOTAL 7602.9 MEAN 20.8 MAX 128 MIN 0 AC-FT 15080

MAX DISCH: 130 CFS AT 02:00 ON May. 29, 2003 GH 1.9 FT. SHIFT -0.01 FT.
MAX GH: 1.9 FT. AT 02:00 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07117000 ARKANSAS RIVER AT NEPESTA ROAD BRIDGE NEAR NEPESTA, CO (RIVER ONLY)

LOCATION.--Lat 38° 10' 44", Long 104° 8' 20", in the NE¼ SE¼ NW¼ Sec.32, T21S, R60W Pueblo County, Hydrologic Unit 11020005, on the left bank downstream side of the Nepesta Road Bridge crossing the Arkansas River, 0.8 mi downstream of Kramer Creek, 9 mi downstream from Huerfano River, 1 mile NNW of the Nepesta Cemetery.

DRAINAGE AREA.--9,345 mi².

GAGE.--Sutron 8210 satellite-monitored data collection platform (DCP) with data logger attached to a Sutron Accububbler in a 4" x 4" steel shelter. The primary record is the DCP log data with satellite data used for backup. The primary gage is a wire weight gage attached to the bridge approximately 120 ft south of the shelter. The Accububble was replaced with a Sutron Accubar and constant nitrogen bubbling using a site feed assembly on April 21, 2003. A Water Log SDI radio bridge, which was controlled by the DCP for data collection and transmission of the Oxford Farmers Ditch gage height, was removed August 20, 2003. Elevation of gage is 4,355 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable, except for the periods: December 20 - 30, 2002; January 23 - 25, February 7 - 11, 22 - 26, 2003, when ice affected the stage-discharge relationship. October 30, 31, 2002 DCP problem; November 26, 2002 low battery; April 26 - 28, 2003 nitrogen leak; and July 17 - 18, 2003 DCP malfunction. Record is considered fair. Station maintained and record developed by Anthony D. Gutierrez.

RATING TABLE.--ARKNEPC015 USED FROM 01-OCT-2002 TO 12-NOV-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

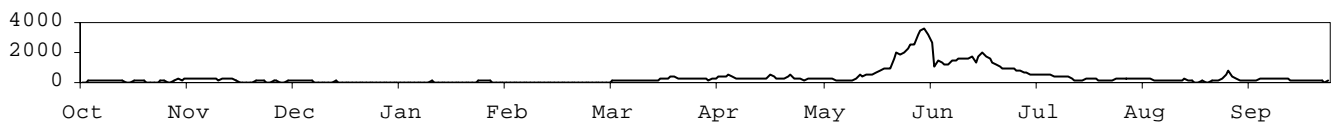
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	206	83	50	27	40	221	209	2550	840	262	815
2	40	223	69	44	28	41	190	268	3250	788	245	454
3	93	232	70	39	30	45	294	227	3460	717	295	272
4	126	227	76	32	35	52	322	216	3550	617	280	185
5	153	235	75	30	35	78	362	210	3140	575	290	162
6	137	272	73	27	32	88	389	214	2610	598	305	125
7	140	233	68	29	30	72	451	222	1070	582	315	144
8	124	234	63	31	30	71	473	210	1530	535	301	174
9	112	202	64	34	32	74	363	176	1400	545	203	186
10	105	198	66	64	32	76	324	104	1140	561	183	242
11	80	206	59	73	35	75	320	104	1230	543	146	268
12	79	219	63	65	37	80	283	104	1440	451	144	289
13	83	232	64	51	34	87	252	86	1470	401	137	289
14	64	225	68	40	37	84	248	140	1580	397	118	313
15	50	127	58	31	29	133	219	282	1590	372	95	329
16	71	53	56	31	34	139	225	516	1630	346	89	328
17	85	46	52	33	27	158	224	442	1580	290	81	310
18	92	42	49	36	17	157	216	516	1700	194	85	257
19	79	42	51	39	28	237	264	501	1330	135	230	195
20	64	61	58	49	41	303	539	535	1710	148	178	157
21	54	69	59	47	45	305	359	671	2020	324	101	192
22	47	70	56	61	40	355	301	820	1760	252	66	182
23	57	69	51	65	37	339	284	878	1650	219	59	168
24	78	63	50	65	36	301	330	880	1290	201	71	153
25	81	65	54	70	36	299	397	995	1240	168	49	135
26	66	70	56	82	37	323	475	1610	1030	139	61	115
27	64	72	57	87	38	283	325	1980	1000	115	110	85
28	112	65	57	72	48	273	230	1910	958	113	115	72
29	213	65	56	53	---	267	201	1940	952	140	133	57
30	190	76	55	38	---	263	189	2210	921	324	206	67
31	202	---	61	27	---	255	---	2560	---	328	478	---
TOTAL	2966	4199	1897	1495	947	5353	9270	21736	51781	11958	5431	6720
MEAN	96	140	61	48	34	173	309	701	1726	386	175	224
AC-FT	5880	8330	3760	2970	1880	10620	18390	43110	102700	23720	10770	13330
MAX	213	272	83	87	48	355	539	2560	3550	840	478	815
MIN	25	42	49	27	17	40	189	86	921	113	49	57

CAL YR 2002 TOTAL 51073.12 MEAN 140 MAX 748 MIN 0.42 AC-FT 101300
WTR YR 2003 TOTAL 123753 MEAN 339 MAX 3550 MIN 17 AC-FT 245500

MAX DISCH: 3920 CFS AT 21:00 ON Jun. 4, 2003 GH 14.53 FT. SHIFT -0.76 FT.

MAX GH: 14.53 FT. AT 21:00 ON Jun. 4, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07117000 ARKANSAS RIVER AT NEPESTA ROAD BRIDGE NEAR NEPESTA, CO (COMBINED)

LOCATION.--Lat 38° 10' 44", Long 104° 8' 20", in the NE¼ SE¼ NW¼ Sec.32, T21S, R60W Pueblo County, Hydrologic Unit 11020005, on the left bank downstream side of the Nepesta Road Bridge crossing the Arkansas River, 0.8 mi downstream of Kramer Creek, 9 mi downstream from Huerfano River, 1 mile NNW of the Nepesta Cemetery.

DRAINAGE AREA.--9,345 mi².

REMARKS.--Combined record is fair, except during periods of estimated flow, which should be considered poor. The Arkansas River near Nepesta CO gaging station was moved from above the Oxford Farmers Ditch diversion to the Nepesta Road bridge below the diversion beginning October 1, 2000. For consistency and comparison with previously published historical record in this reach of the Arkansas River, the total Arkansas River flow is computed by combining the Oxford Ditch mean daily discharge with the mean daily discharge measured at Arkansas River at Nepesta Road Bridge near Nepesta CO gaging station. The peak discharge for the year was 4040 cfs at 21:00 June 4, 2003.

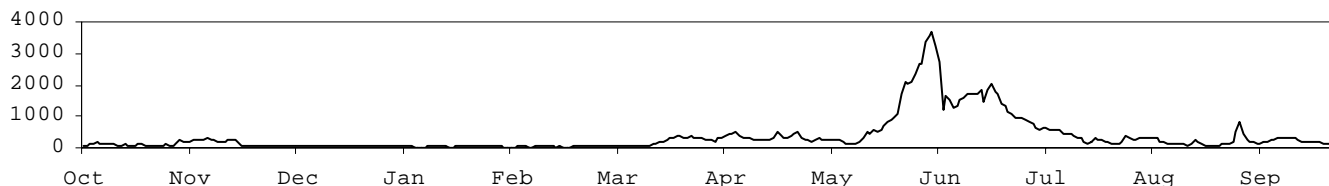
ARKANSAS RIVER AT NEPESTA BRIDGE AND OXFORD FARMERS DITCH (COMBINED)
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	221	83	50	27	40	245	232	2680	862	283	826
2	55	238	69	44	28	41	215	292	3370	810	266	454
3	107	247	70	39	30	45	317	252	3580	740	317	276
4	140	242	76	32	35	52	345	241	3670	640	305	199
5	168	250	75	30	35	78	387	235	3260	598	317	175
6	151	287	73	27	32	88	413	238	2730	622	330	139
7	154	247	68	29	30	72	475	246	1190	605	339	158
8	138	248	63	31	30	71	497	235	1650	558	324	187
9	127	216	64	34	32	74	387	200	1510	568	218	199
10	120	212	66	64	32	76	348	128	1260	584	199	255
11	95	220	59	73	35	75	344	128	1340	566	157	281
12	94	234	63	65	37	80	308	127	1550	474	158	302
13	98	247	64	51	34	87	277	110	1580	424	151	302
14	79	239	68	40	37	84	272	164	1690	421	132	325
15	65	127	58	31	29	148	244	305	1700	395	108	342
16	86	53	56	31	34	153	249	516	1740	346	102	342
17	100	46	52	33	27	172	248	444	1690	292	94	324
18	106	42	49	36	17	171	240	541	1810	213	99	271
19	93	42	51	39	28	251	288	526	1440	154	254	208
20	78	61	58	49	41	317	539	559	1820	167	192	170
21	68	69	59	47	45	319	360	696	2050	342	115	206
22	61	70	56	61	40	369	325	844	1760	271	79	196
23	71	69	51	65	37	353	308	902	1740	238	72	182
24	92	63	50	65	36	315	354	941	1410	220	85	166
25	96	65	54	70	36	313	420	1110	1360	187	62	148
26	81	70	56	82	37	351	498	1740	1150	158	74	129
27	78	72	57	87	38	309	348	2110	1090	134	124	98
28	127	65	57	72	48	293	253	2040	981	132	129	85
29	228	65	56	53	---	287	224	2070	975	207	150	70
30	205	76	55	38	---	283	212	2340	944	378	222	80
31	217	---	61	27	---	275	---	2690	---	348	491	---
TOTAL	3418	4403	1897	1495	947	5642	9940	23202	54720	12654	5948	7095
MEAN	110	147	61	48	34	182	331	748	1824	408	192	237
AC-FT	6780	8730	3760	2970	1880	11190	19720	46020	108500	25100	11800	14070
MAX	228	287	83	87	48	369	539	2690	3670	862	491	826
MIN	40	42	49	27	17	40	212	110	944	132	62	70

CAL YR 2002 TOTAL 55686 MEAN 153 MAX 767 MIN 13 AC-FT 110500
WTR YR 2003 TOTAL 131361 MEAN 360 MAX 3670 MIN 17 AC-FT 260600

MAX DISCH.: 4040 CFS AT 21:00 ON Jun. 4, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07119700 ARKANSAS RIVER BELOW CATLIN DAM, NEAR FOWLER, CO

LOCATION.--Lat 38°07'33", long 103°54'41", in NW¼NW¼ sec. 21, T.22 S., R.58 W., Otero County, Hydrologic Unit 11020005, at Catlin Canal gage, on right bank 2.2 mi downstream from diversion dam for Catlin Canal, 2.3 mi downstream from Apishapa River, and 6.0 mi east of Fowler.

DRAINAGE AREA AND PERIOD OF RECORD.--10,901 mi². October 1964 to current year.

GAGE.--Satellite-monitored data collection platform (Sutron Model 8210 DCP), and accubar in 8' by 8' shelter. Primary record is DCP data log. Satellite-monitored data used for backup purposes. Outside staff gage is primary reference gage. Cableway approximately 1 mile upstream. Catlin Canal flume gage height and USGS water quality monitor also monitored by this DCP.

REMARKS.--Record is complete and reliable except for the following periods: Oct. 7, 2002, due to DCP malfunction and missing satellite data. Dec 20 - 29, 2002; Jan 22 - 26, Feb 7 - 13, 23 - 28, 2003 due to ice affecting the stage-discharge relationship. Record good, except for periods of missing record and ice effect, which should be considered poor. Record developed and station maintained by Adam Adame.

RATING TABLE.--ARKCATC011 USED FROM 01-OCT-2002 TO 06-OCT-2003

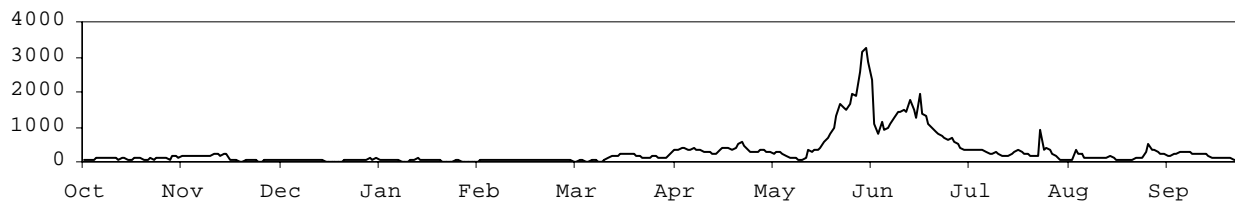
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	157	30	94	27	81	87	261	1910	682	319	512
2	41	184	39	74	28	73	101	334	2560	591	234	326
3	39	189	40	73	35	58	188	319	3150	522	150	318
4	65	171	50	73	30	26	265	281	3230	393	71	268
5	87	197	47	72	29	24	317	264	2870	329	75	217
6	110	188	46	67	32	33	370	255	2350	320	78	205
7	110	188	48	51	30	34	416	283	1110	350	71	192
8	115	190	46	29	30	27	396	282	813	343	71	187
9	107	180	42	23	40	27	365	246	1170	341	319	213
10	96	198	45	22	60	29	324	166	927	336	253	242
11	89	200	44	28	75	29	378	113	961	323	207	270
12	79	201	31	51	77	22	356	111	1090	292	139	304
13	88	198	30	66	75	15	328	93	1270	237	125	312
14	88	229	30	93	78	62	297	73	1410	254	112	313
15	77	231	32	74	74	97	276	77	1420	265	100	245
16	80	67	27	65	73	148	260	121	1480	238	95	246
17	88	36	25	68	74	152	231	320	1400	198	97	239
18	96	29	22	63	65	166	239	306	1760	167	96	247
19	92	14	23	64	30	218	315	368	1460	162	96	205
20	79	15	22	56	32	244	384	347	1240	214	175	154
21	75	34	20	30	29	248	390	389	1950	310	97	135
22	90	34	45	21	29	231	420	548	1370	338	69	134
23	83	32	60	22	32	218	363	709	1340	270	58	127
24	90	30	80	22	35	174	411	804	1100	241	46	119
25	101	25	62	26	40	159	531	979	966	230	49	106
26	105	26	56	31	50	142	597	1300	856	187	39	96
27	92	36	55	32	70	136	468	1650	787	165	59	88
28	81	37	75	27	75	120	356	1550	763	155	90	78
29	147	37	85	26	---	147	305	1510	688	888	95	68
30	156	29	98	26	---	143	278	1640	651	332	132	57
31	136	---	82	26	---	118	---	1970	---	400	310	---
TOTAL	2814	3382	1437	1495	1354	3401	10012	17669	44052	10073	3927	6223
MEAN	91	113	46	48	48	110	334	570	1468	325	127	207
AC-FT	5580	6710	2850	2970	2690	6750	19860	35050	87380	19980	7790	12340
MAX	156	231	98	94	78	248	597	1970	3230	888	319	512
MIN	32	14	20	21	27	15	87	73	651	155	39	57

CAL YR 2002 TOTAL 39188.47 MEAN 107 MAX 575 MIN 0 AC-FT 77730
WTR YR 2003 TOTAL 105839 MEAN 290 MAX 3230 MIN 14 AC-FT 209900

MAX DISCH: 3310 CFS AT 01:45 ON Jun. 4, 2003 GH 5.41 FT. SHIFT 0.16 FT.
MAX GH: 5.41 FT. AT 01:45 ON Jun. 4, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07119705 CATLIN CANAL, NEAR FOWLER, CO

LOCATION.--Lat 38°07'33", long 103°54'41", in NW¼NW¼ sec. 21, T.22 S., R.58 W., Otero County, Hydrologic Unit 11020005, at river gage.

DRAINAGE AREA.--N/A

GAGE.--Float-activated graphic water-stage recorder and shaft encoder in 8' x 8' shelter with well (with equipment for Arkansas River below Catlin Dam near Fowler CO river gage). Shaft encoder is connected to satellite-monitored data collection platform (DCP) used for river gage. Primary record is DCP log file with the graphic chart recorder used for backup purposes. Fifteen-foot standard concrete Parshall flume is the control. Primary reference gage is outside staff gage installed in flume. Elevation of canal gage is 4,257.87 ft. above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable. Record good. Records developed by Adam Adame.

RATING TABLE.--STD15FTPF USED FROM 01-OCT-2002 TO 01-OCT-2003

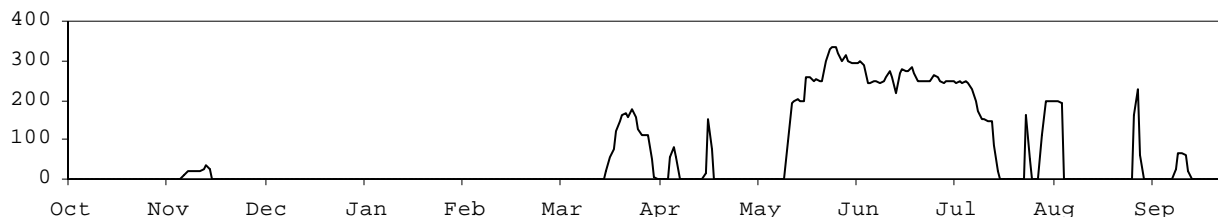
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	109	0	297	260	0	161
2	0	0	0	0	0	0	51	0	313	247	0	226
3	0	0	0	0	0	0	7	0	297	243	113	63
4	0	0	0	0	0	0	0	0	296	247	199	0
5	0	0	0	0	0	0	0	0	295	248	200	0
6	0	9.8	0	0	0	0	0	0	296	250	200	0
7	0	19	0	0	0	0	.03	0	297	245	199	0
8	0	19	0	0	0	0	57	0	290	246	200	0
9	0	19	0	0	0	0	83	0	245	245	192	0
10	0	20	0	0	0	0	58	0	245	248	2.1	0
11	0	20	0	0	0	0	.06	0	248	242	0	0
12	0	27	0	0	0	0	0	0	246	228	0	0
13	0	33	0	0	0	0	0	0	245	200	0	0
14	0	27	0	0	0	0	0	0	246	174	0	27
15	0	.2	0	0	0	0	0	95	259	152	0	68
16	0	0	0	0	0	0	0	190	271	152	0	66
17	0	0	0	0	0	0	0	196	258	148	0	59
18	0	0	0	0	0	0	0	201	219	148	0	21
19	0	0	0	0	0	19	15	199	266	86	0	0
20	0	0	0	0	0	54	151	199	278	20	0	0
21	0	0	0	0	0	78	76	258	272	0	0	0
22	0	0	0	0	0	120	0	260	274	0	0	0
23	0	0	0	0	0	145	0	247	286	0	0	0
24	0	0	0	0	0	160	0	254	266	0	0	0
25	0	0	0	0	0	166	0	246	246	0	0	0
26	0	0	0	0	0	155	0	247	246	0	0	0
27	0	0	0	0	0	179	0	299	248	0	0	0
28	0	0	0	0	0	158	0	330	248	0	0	0
29	0	0	0	0	---	126	0	334	247	160	0	0
30	0	0	0	0	---	109	0	335	263	49	0	0
31	0	---	0	0	---	109	---	318	---	0	0	---
TOTAL	0	194	0	0	0	1578	607.09	4208	8003	4238	1305.1	691
MEAN	0	6.47	0	0	0	50.9	20.2	136	267	137	42.1	23
AC-FT	0	385	0	0	0	3130	1200	8350	15870	8410	2590	1370
MAX	0	33	0	0	0	179	151	335	313	260	200	226
MIN	0	0	0	0	0	0	0	0	219	0	0	0

CAL YR 2002 TOTAL 13433.95 MEAN 36.8 MAX 252 MIN 0 AC-FT 26650
WTR YR 2003 TOTAL 20824.19 MEAN 57.1 MAX 335 MIN 0 AC-FT 41300

MAX DISCH: 357 CFS AT 13:15 ON May. 27, 2003 GH 3.12 FT. SHIFT 0 FT.
MAX GH: 3.12 FT. AT 13:15 ON May. 27, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07119700 ARKANSAS RIVER BELOW CATLIN DAM, NEAR FOWLER, CO (COMBINED)

LOCATION.--Lat 38°07'33", long 103°54'41", in NW¼NW¼ sec. 21, T.22 S., R.58 W., Otero County.

DRAINAGE AREA.--10,901 mi².

REMARKS.--The combined record of discharges was obtained by the addition of Catlin Canal daily flows to the corresponding daily flows in the Arkansas River below Catlin Dam. The peak discharge for the year was 3610 cfs at 0145 June 4, 2003. Combined record is good, except during periods of estimated flow, which should be considered poor. Record is a compilation of Catlin Dam and Catlin Canal records developed by Div. II Personnel.

ARKANSAS RIVER AND CATLIN CANAL (COMBINED)

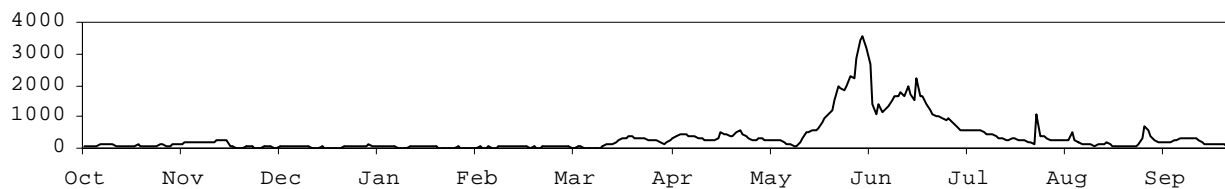
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	157	30	94	27	81	196	261	2210	942	319	673
2	41	184	39	74	28	73	152	334	2870	838	234	552
3	39	189	40	73	35	58	195	319	3450	765	263	381
4	65	171	50	73	30	26	265	281	3530	640	270	268
5	87	197	47	72	29	24	317	264	3170	577	275	217
6	110	198	46	67	32	33	370	255	2650	570	278	205
7	110	207	48	51	30	34	416	283	1410	595	270	192
8	115	209	46	29	30	27	453	282	1100	589	271	187
9	107	199	42	23	40	27	448	246	1420	586	511	213
10	96	218	45	22	60	29	382	166	1170	584	255	242
11	89	220	44	28	75	29	378	113	1210	565	207	270
12	79	228	31	51	77	22	356	111	1340	520	139	304
13	88	231	30	66	75	15	328	93	1520	437	125	312
14	88	256	30	93	78	62	297	73	1660	428	112	340
15	77	231	32	74	74	97	276	172	1680	417	100	313
16	80	67	27	65	73	148	260	311	1750	390	95	312
17	88	36	25	68	74	152	231	516	1660	346	97	298
18	96	29	22	63	65	166	239	507	1980	315	96	268
19	92	14	23	64	30	237	330	567	1730	248	96	205
20	79	15	22	56	32	298	535	546	1520	234	175	154
21	75	34	20	30	29	326	466	647	2220	310	97	135
22	90	34	45	21	29	351	420	808	1640	338	69	134
23	83	32	60	22	32	363	363	956	1630	270	58	127
24	90	30	80	22	35	334	411	1060	1370	241	46	119
25	101	25	62	26	40	325	531	1230	1210	230	49	106
26	105	26	56	31	50	297	597	1550	1100	187	39	96
27	92	36	55	32	70	315	468	1950	1040	165	59	88
28	81	37	75	27	75	278	356	1880	1010	155	90	78
29	147	37	85	26	---	273	305	1840	935	1050	95	68
30	156	29	98	26	---	252	278	1980	914	381	132	57
31	136	---	82	26	---	227	---	2290	---	400	310	---
TOTAL	2814	3576	1437	1495	1354	4979	10619	21891	52099	14313	5232	6914
MEAN	91	119	46	48	48	161	354	706	1737	462	169	230
AC-FT	5580	7090	2850	2970	2690	9880	21060	43420	103300	28390	10380	13710
MAX	156	256	98	94	78	363	597	2290	3530	1050	511	673
MIN	32	14	20	21	27	15	152	73	914	155	39	57

CAL YR	2002	TOTAL	52623.54	MEAN	144	MAX	686	MIN	0	AC-FT	104400
WTR YR	2003	TOTAL	126723	MEAN	347	MAX	3530	MIN	14	AC-FT	251400

MAX DISCH.: 3160 CFS AT 01:45 ON Jun. 4, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07120500 ARKANSAS RIVER near ROCKY FORD, CO

LOCATION.--Lat 38°03'52", Long 103°41'24" in SE ¼, NW ¼, Sec. 9, T23S, R56W, Hydrologic Unit 11020005, Otero County, on right bank of Arkansas River, approximately 250 feet upstream from State Highway 266, and approximately 1.6 miles NE of Rocky Ford, Colorado.

DRAINAGE AREA AND PERIOD OF RECORD.-- Undetermined. Gage established October 8, 1992.

GAGE.--High data rate Sutron 8210 DCP and Accububble in a 4' x 4' steel gage shelter. Outside staff gage near right bank approximately 150 ft upstream of shelter used as primary reference gage. Primary record is DCP log data with satellite-monitored data used for backup purposes. A wire weight gage was installed on west side of Hwy 266 bridge and set on April 3, 2003. Elevation of gage datum is 4130.46 ft MSL.

REMARKS.--Record is complete and reliable for the entire water year, except for the following period(s): July 2-7, Aug 5-18 and Sept 23, 24, 28, 29 2003 due to orifice line problems. Nov 26, 27, Dec 20-29,31, 2002; Jan 22-26, Feb 4-12, 23-27, and March 5, 2003 due to ice affecting the stage-discharge relationship. Record fair. Record developed and station maintained by Adam Adame.

RATING TABLE.--ARKROCCO01 USED FROM 01-OCT-2002 TO 03-OCT-2003

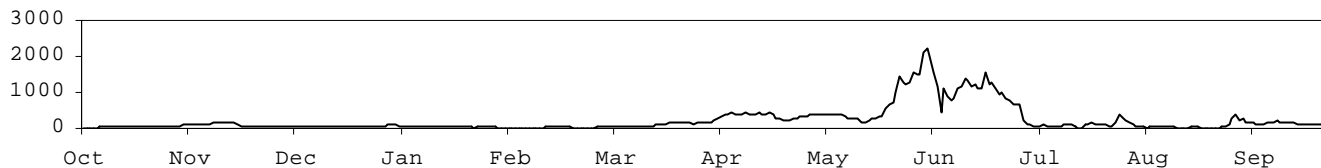
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	95	29	53	19	32	164	367	1500	670	244	265
2	15	107	28	47	17	31	176	375	1510	245	177	366
3	18	117	31	38	20	29	195	412	2100	90	124	246
4	19	115	34	33	18	30	271	404	2240	85	73	274
5	23	114	35	32	18	48	316	409	1990	83	54	191
6	28	132	32	33	17	43	379	414	1540	80	31	159
7	30	132	32	59	17	44	410	409	1160	80	27	146
8	31	141	32	44	17	44	417	393	445	87	30	138
9	35	150	31	41	18	42	388	403	1120	64	30	132
10	36	166	31	40	18	42	390	401	895	65	40	129
11	36	180	32	41	19	43	411	323	782	67	45	144
12	35	183	33	50	20	42	423	277	861	39	35	162
13	36	174	30	53	29	39	409	278	1110	80	30	183
14	37	171	30	39	30	35	404	261	1190	111	35	203
15	38	92	30	38	30	47	412	256	1390	120	45	189
16	38	40	31	39	30	65	432	154	1340	95	25	163
17	40	59	31	36	43	89	412	182	1180	28	18	168
18	44	50	30	37	43	104	385	212	1250	9.3	11	158
19	47	40	30	34	36	125	449	281	1120	17	10	160
20	51	34	30	32	28	134	389	292	1090	94	29	134
21	50	33	30	36	27	172	276	312	1530	127	71	112
22	51	38	30	35	25	163	293	347	1220	170	30	109
23	55	41	30	20	22	156	241	568	1300	125	18	105
24	56	38	35	35	18	156	195	685	1110	113	14	100
25	57	35	40	40	18	153	212	720	967	116	12	89
26	58	33	40	40	22	141	260	1010	975	95	12	85
27	61	33	50	43	25	149	291	1430	814	70	10	92
28	58	35	80	39	34	137	332	1280	790	61	16	74
29	60	43	90	33	---	160	328	1230	694	175	50	50
30	92	34	127	24	---	187	332	1290	657	385	66	52
31	91	---	87	22	---	171	---	1540	---	273	113	---
TOTAL	1337	2655	1261	1186	678	2853	9992	16915	35870	3919.3	1525	4578
MEAN	43	89	41	38	24	92	333	546	1196	126	49	153
AC-FT	2650	5270	2500	2350	1340	5660	19820	33550	71150	7770	3020	9080
MAX	92	183	127	59	43	187	449	1540	2240	670	244	366
MIN	11	33	28	20	17	29	164	154	445	9.3	10	50

CAL YR 2002 TOTAL 23710.81 MEAN 65.0 MAX 324 MIN 0.41 AC-FT 47030
WTR YR 2003 TOTAL 82769.3 MEAN 227 MAX 2240 MIN 9.3 AC-FT 164200

MAX DISCH: 2320 CFS AT 14:15 ON Jun. 3, 2003 GH 4.2 FT. SHIFT 0.25 FT.
MAX GH: 4.2 FT. AT 14:15 ON Jun. 3, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07122400 CROOKED ARROYO NEAR SWINK, CO

LOCATION.--Lat 37°58'56", long 103°35'52", in SW¼SW¼ sec. 5, T.24 S., R.55 W., Otero County, on right bank 54 ft. downstream from bridge on State Highway 10, 2.0 mi. upstream from mouth, and 2.8 mi. southeast of Swink.

DRAINAGE AREA.--108 mi².

GAGE.--High data rate Sutron 8210 DCP and Accububble installed in a 4' x 4' steel shelter. Primary record is DCP log file with satellite-monitored data used for backup. Primary reference gage is a tapedown to the water surface from an RP in the channel. Elevation of gage is 4,100 ft. above sea level.

REMARKS.--Record is complete and reliable, except for the following periods: Dec 20-28, 2002; January 22-27, and Feb 4-11, 23-28, 2003, when the stage-discharge relationship was affected by ice. Record fair. Station maintained and record developed by Adam Adame.

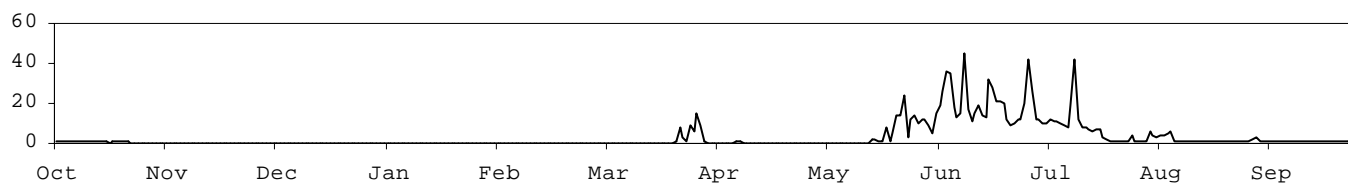
RATING TABLE.--CANSWKCO06 USED FROM 01-OCT-2002 TO 06-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	.32	.28	.28	.14	.1	1.1	.17	12	42	.97	.82
2	.89	.32	.25	.22	.13	.1	.32	.17	12	26	.93	2.2
3	.91	.31	.25	.22	.14	.12	.28	.16	9	12	.87	2.6
4	.83	.33	.25	.22	.13	.11	.25	.14	5.5	12	6.5	.98
5	.78	.32	.25	.21	.13	.13	.22	.13	15	10	4	.87
6	.68	.32	.24	.17	.13	.12	.24	.11	19	9.9	2.7	.84
7	.73	.32	.24	.17	.11	.11	.21	.12	26	12	4	.86
8	.75	.31	.2	.18	.11	.1	.21	.1	36	11	4.1	.88
9	.76	.31	.2	.17	.13	.11	.23	.08	35	11	4.9	.84
10	.71	.3	.22	.17	.13	.1	.87	.08	18	10	6.4	.81
11	.73	.33	.2	.15	.13	.1	.81	.08	13	9.5	1.2	.77
12	.58	.33	.18	.16	.13	.1	.26	.07	15	7.9	1.1	.75
13	.52	.34	.18	.15	.13	.09	.26	.06	45	19	.99	.75
14	.57	.32	.19	.15	.13	.09	.26	.06	17	42	.95	.77
15	.56	.3	.21	.16	.11	.09	.28	.06	11	12	.89	.72
16	.5	.3	.21	.13	.12	.08	.28	.07	15	8.5	.85	1.2
17	.52	.3	.22	.16	.12	.1	.23	.36	19	8.3	.83	.84
18	.52	.29	.21	.16	.11	.11	.22	1.6	14	6.7	.81	.79
19	.52	.28	.2	.16	.12	.2	.28	1.9	13	6.4	.88	.79
20	.52	.25	.2	.15	.12	.1	.26	1	32	7.5	.79	.79
21	.52	.24	.18	.15	.12	.09	.29	1.4	28	7.1	.74	.62
22	.34	.25	.17	.13	.11	.09	.24	8.5	21	2.9	.69	.65
23	.32	.26	.18	.13	.1	.09	.25	1.2	21	1.6	.67	.63
24	.31	.25	.2	.15	.09	1.2	.25	4.9	20	1.4	.65	.6
25	.32	.24	.22	.15	.09	7.7	.22	14	12	1.3	.63	.6
26	.31	.21	.22	.14	.11	2.7	.23	14	8.7	1.2	.63	.56
27	.36	.21	.24	.14	.11	1.3	.21	24	10	1.2	.61	.62
28	.36	.21	.27	.14	.09	8.6	.21	3.3	12	1.2	.64	.62
29	.33	.21	.29	.13	---	6.2	.21	12	12	1.1	.76	.62
30	.33	.23	.27	.13	---	15	.19	14	20	3.8	.8	.46
31	.32	---	.27	.14	---	9.3	---	10	---	1.2	.83	---
TOTAL	17.27	8.51	6.89	5.07	3.32	54.43	9.37	113.82	546.2	307.7	52.31	25.85
MEAN	.56	.28	.22	.16	.12	1.76	.31	3.67	18.2	9.9	1.69	.86
AC-FT	34	17	14	10	6.6	108	19	226	1080	610	104	51
MAX	.91	.34	.29	.28	.14	15	1.1	24	45	42	6.5	2.6
MIN	.31	.21	.17	.13	.09	.08	.19	.06	5.5	1.1	.61	.46
CAL YR 2002	TOTAL	798.87	MEAN	2.19	MAX	25	MIN	.17	AC-FT	1580		
WTR YR 2003	TOTAL	1150.74	MEAN	3.15	MAX	45	MIN	.06	AC-FT	2280		

MAX DISCH: 307 CFS AT 20:45 ON Jun. 13, 2003 GH 4.98 FT. SHIFT 0.02 FT.
MAX GH: 4.98 FT. AT 20:45 ON Jun. 13, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07123000 ARKANSAS RIVER AT LA JUNTA, CO

LOCATION.--Lat 37°59'26", long 103°31'55", in SE¼NE¼ sec. 2, T.24 S., R.55 W., Otero County, Hydrologic Unit 11020005, on right bank at upstream side of bridge on State Highway 109 in La Junta, 450 ft upstream from King Arroyo.

DRAINAGE AREA AND PERIOD OF RECORD.--12,210 mi². Staff gage originally established by USGS in 1889, with sporadic data and various locations. Water stage recorder in use since Oct. 1933 at several locations also. Gage site in continuous use since then.

GAGE.--Satellite-monitored data collection platform (Sutron 8210 DCP), and Accububble in 4' x 4' steel shelter. DCP log file is primary record with satellite data use for backup. Wire-weight gage on bridge serves as primary reference gage. High data rate Sutron 8210 DCP installed May 20, 2002. Datum of gage is 4,039.60 ft above National Geodetic Vertical Datum of 1929. See WSP 1711 or 1731 for history of changes prior to June 13, 1940. June 13, 1940, to June 6, 1967, water-stage recorder at site 300 ft upstream at present datum.

REMARKS.--Record is complete and reliable except for: December 20-31, 2002; January 1-3, 22-27; and February 7-11, 24-27, 2003 when ice affected the stage-discharge relationship. Record fair, except for periods of missing or estimated gage height, which should be considered poor. Station maintained and record developed by Adam Adame.

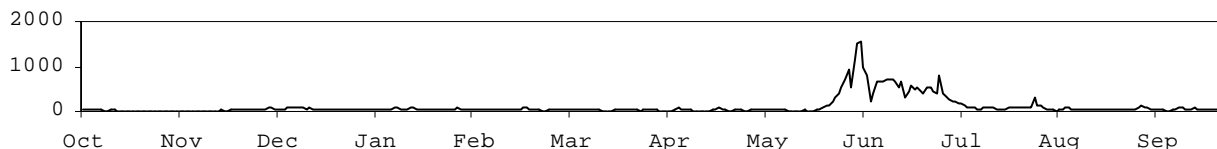
RATING TABLE.--ARKLAJCO41 USED FROM 01-OCT-2002 TO 06-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	8.3	57	57	43	42	23	42	937	403	135	69
2	25	8.2	53	56	42	39	19	41	555	339	101	128
3	34	7.1	52	55	48	39	18	40	1160	258	61	92
4	35	8.6	65	50	53	35	19	40	1500	203	34	86
5	42	14	77	47	52	30	19	42	1540	221	29	64
6	47	13	76	46	50	59	20	57	970	185	14	53
7	28	13	74	59	45	59	46	66	782	160	29	52
8	20	11	74	78	43	62	71	64	206	134	59	48
9	18	13	76	67	42	56	54	54	397	105	70	38
10	23	14	68	56	43	54	35	52	674	92	99	16
11	23	18	66	54	45	55	24	61	687	79	62	20
12	19	20	68	60	45	48	30	41	687	65	46	40
13	17	21	58	76	45	55	21	20	696	52	57	52
14	17	25	53	67	46	40	20	18	696	74	51	70
15	18	12	53	52	43	20	20	18	710	67	50	71
16	17	8.5	54	46	38	16	21	17	661	73	49	47
17	15	37	53	47	43	20	19	15	553	74	48	55
18	15	65	50	42	74	19	19	55	674	59	48	55
19	15	63	49	43	68	46	32	19	324	28	48	75
20	15	54	48	45	49	31	64	16	437	24	47	61
21	17	47	55	42	38	47	76	22	581	50	48	59
22	16	46	55	45	33	57	51	49	511	92	47	60
23	13	53	52	45	30	58	33	61	542	109	46	57
24	13	51	50	50	19	57	22	94	425	74	45	60
25	13	48	45	55	20	56	19	123	400	78	43	59
26	15	44	47	60	30	34	32	146	554	88	47	52
27	17	50	55	65	40	22	37	230	513	84	43	47
28	17	61	58	73	49	29	26	327	451	80	46	49
29	15	72	60	64	---	23	19	404	406	73	53	47
30	9.4	69	62	58	---	31	18	514	821	323	58	49
31	8.3	---	59	51	---	36	---	721	---	136	60	---
TOTAL	619.7	974.7	1822	1711	1216	1275	927	3469	20050	3882	1673	1731
MEAN	20	32.5	59	55	43	41	31	112	668	125	54	58
AC-FT	1230	1930	3610	3390	2410	2530	1840	6880	39770	7700	3320	3430
MAX	47	72	77	78	74	62	76	721	1540	403	135	128
MIN	8.3	7.1	45	42	19	16	18	15	206	24	14	16
CAL YR 2002	TOTAL	12632	MEAN	34.6	MAX	135	MIN	5.5	AC-FT	25060		
WTR YR 2003	TOTAL	39350.4	MEAN	108	MAX	1540	MIN	7.1	AC-FT	78050		

MAX DISCH: 1690 CFS AT 11:30 ON Jun. 5, 2003 GH 9.35 FT. SHIFT -0.89 FT.
MAX GH: 9.35 FT. AT 11:30 ON Jun. 5, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07123675 HORSE CREEK at HIGHWAY 194 nr LAS ANIMAS, CO

LOCATION.--Lat 38°05'06", long 103°21'12", in SE1/4,SW1/4, sec. 33, T.22S., R.53 W., Bent County, Hydrological Unit 11020008, on right bank 15 ft upstream from right end of box culverts on State Highway 194, 3.2 mi upstream from mouth, 3.4 mi downstream from Ft. Lyon Canal Aqueduct, and 7.5 mi west of Las Animas, Co.

DRAINAGE AREA AND PERIOD OF RECORD.--Drainage undetermined. Established and operated Oct. 19, 1979 to Sep. 30, 1993 by USGS. Operated and maintained by State of Colorado, Oct. 01, 1993 to present.

GAGE.--Accububble and satellite-monitored data collection platform (Sutron 8210 DCP) in a 4' x 4' steel shelter. Primary record is DCP data log with satellite-monitored data used for backup purposes. An outside staff gage installed on the right side of the channel approximately 30 ft. upstream of the box culverts under Highway 194 is the primary reference gage.

REMARKS.--Record is complete and reliable, except for the following period(s): Mar 31, Apr 1, Jun 11-12, and Jul 7-8, 23-29, 2003; when the DCP malfunctioned and there were no satellite data or DCP log data. Record fair, except during periods of missing gage height record, which should be considered poor. Station maintained and record developed by Adam Adame.

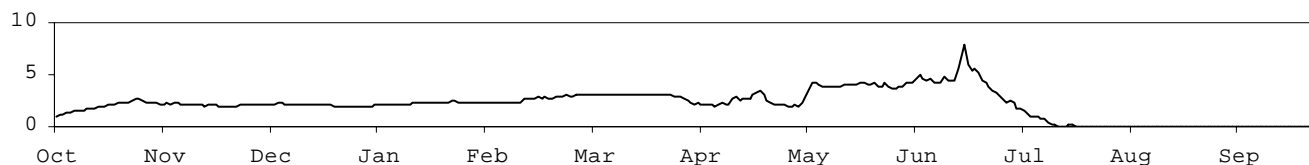
RATING TABLE.--HRC194CO06 USED FROM 01-OCT-2002 TO 06-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.9	2.2	2.1	2.1	2.4	3	2.5	2	3.8	2.7	0	.02
2	1.1	2.3	2.1	2.1	2.4	3	2.3	2.1	3.9	2.4	0	.01
3	1.1	2.2	2.1	2.1	2.4	3	2.2	2	4.2	2.5	0	0
4	1.4	2.3	2.3	2.1	2.4	3	2.3	2.4	4.3	2.3	0	.01
5	1.4	2.3	2.3	2.1	2.4	3.1	2.2	2.7	4.3	1.8	0	.01
6	1.5	2.2	2.2	2.1	2.4	3.1	2.2	3.5	4.7	1.8	0	.01
7	1.5	2.1	2.2	2.2	2.4	3.1	2.2	4.2	5	1.5	0	.04
8	1.6	2.1	2.2	2.2	2.4	3.1	2.1	4.2	4.6	1.3	0	.06
9	1.6	2.2	2.2	2.2	2.4	3.1	2	4.1	4.4	1	0	.04
10	1.7	2.2	2.2	2.2	2.4	3.1	2.1	3.9	4.6	1	0	.03
11	1.7	2.2	2.2	2.2	2.4	3.1	2.3	3.9	4.3	.87	0	.03
12	1.8	2.2	2.2	2.4	2.4	3.1	2.2	3.9	4.3	.79	0	.02
13	1.9	2	2.2	2.4	2.6	3.1	2.2	3.9	4.3	.68	0	.01
14	1.9	2.1	2.2	2.4	2.7	3.1	2.6	3.8	4.9	.39	0	.02
15	2	2.1	2.2	2.4	2.7	3.1	2.9	3.9	4.4	.24	0	.02
16	2.1	2.1	2.1	2.4	2.7	3.1	2.5	4	4.4	.18	0	.01
17	2.1	2	2.1	2.4	2.8	3.1	2.6	4	4.5	.06	0	.01
18	2.2	2	2.1	2.4	2.7	3.1	2.6	4	5.6	.09	0	.01
19	2.3	2	2.1	2.4	2.8	3.1	2.7	4	7.2	.08	.01	.02
20	2.3	2	1.9	2.4	2.7	3.1	3	4	7.8	.13	0	.02
21	2.4	2	1.9	2.4	2.7	3.1	3.3	4.2	5.9	.16	0	.01
22	2.4	2	2	2.4	2.8	3.1	3.5	4.3	5.3	0	0	.01
23	2.5	2.1	1.9	2.5	2.9	3	3.1	4	5.5	0	0	.02
24	2.6	2.2	1.9	2.5	2.8	3	2.5	4.1	5.2	0	0	.02
25	2.7	2.2	1.9	2.4	3	3	2.3	4.2	4.5	0	0	.01
26	2.5	2.2	1.9	2.4	2.9	3.1	2.2	3.9	4.2	0	0	.02
27	2.4	2.1	1.9	2.4	2.9	3.1	2.1	3.9	3.8	0	0	.02
28	2.4	2.1	1.9	2.4	3	2.9	2.2	4.3	3.4	0	0	.02
29	2.4	2.1	1.9	2.4	---	2.9	2.1	3.9	3.2	0	0	.02
30	2.3	2.1	1.9	2.4	---	2.9	2	3.7	2.9	0	.02	.02
31	2.2	---	1.9	2.4	---	2.7	---	3.7	---	0	.03	---
TOTAL	60.9	63.9	64.2	71.8	73.5	94.4	73	114.7	139.4	21.97	.06	.57
MEAN	1.96	2.1	2.1	2.3	2.6	3.1	2.4	3.7	4.7	.71	0	.02
AC-FT	121	127	127	142	146	187	145	228	276	44	.1	1.1
MAX	2.7	2.3	2.3	2.5	3	3.1	3.5	4.3	7.8	2.7	.03	.06
MIN	.9	2	1.9	2.1	2.4	2.7	2	2	2.9	0	0	0
CAL YR 2002	TOTAL	1089.3	MEAN	2.98	MAX	7.7	MIN	0	AC-FT	2160		
WTR YR 2003	TOTAL	778.4	MEAN	2.13	MAX	7.8	MIN	0	AC-FT	1540		

MAX DISCH: 9.79 CFS AT 22:30 ON Jun. 18, 2003 GH 1.99 FT. SHIFT -0.26 FT.
MAX GH: 1.99 FT. AT 22:30 ON Jun. 18, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07124500 PURGATOIRE RIVER AT TRINIDAD, CO

LOCATION.--Lat 37°10'15", long 104°30'31", in NW¼SE¼ sec. 13, T.33 S., R.64 W., Las Animas County, in city of Trinidad, on left bank.

DRAINAGE AREA.--795 mi².

GAGE.--Sutron 8210 High Data Rate DCP (satellite monitored data collection platform) controlling a Sutron Accububble system inside a 4' x 4' steel shelter on the left bank above the channel. Orifice line inside 1-½ inch galvanized pipe anchored to the bank extending down and into the channel. Primary record is the DCP log data with satellite-monitored data used for backup purposes. The primary reference is a staff gage set in the streambed near the orifice.

REMARKS.--Record is complete and reliable except for the following periods: November 26 - 30; December 1, 2, 6 -16, 18 - 28 and 31, 2002; January 3, 5 - 8, 10 - 23, 25, 26; February 4 -12, 24 - 28; March 1 -3, 5 and 6 2003, when ice at or near the gage affected the stage-discharge relationship. Record considered good, except for days of ice affected gage height record, which are poor. Station maintained and record developed Anthony Gutierrez.

RATING TABLE.--PURTRICO25 USED FROM 01-OCT-2002 TO 21-NOV-2003

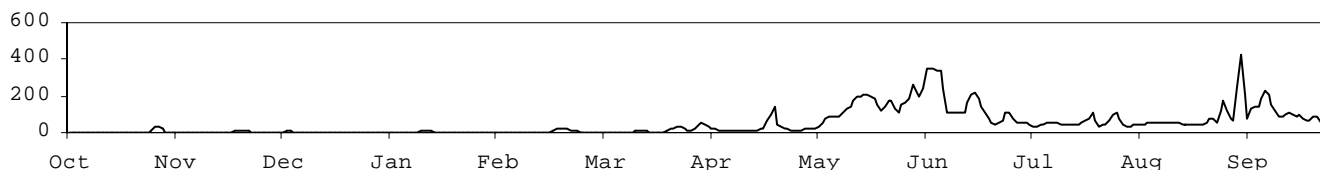
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	1	.6	.71	.81	1.4	45	15	186	75	73	124
2	.84	.73	.6	.73	.79	1.6	58	18	261	60	48	73
3	.82	.79	9.6	.68	1	1.7	48	21	238	59	38	69
4	.48	.48	10	.62	.8	1.4	30	22	201	58	35	250
5	.14	.54	1.4	.68	.7	1.4	21	18	239	58	39	421
6	.19	.75	1.2	.7	.7	1.3	18	30	354	49	39	206
7	.21	2	1.1	.65	.7	1.3	15	52	353	37	41	75
8	.19	1.9	1	.6	.7	1.4	11	78	345	36	49	128
9	.18	1.9	1	.54	.7	1.4	8.4	90	340	46	51	140
10	.1	1.8	1	5	.8	1.4	9.3	86	336	49	52	140
11	.01	1.5	1	7.9	.8	1.4	11	84	238	55	51	181
12	.09	.66	.9	7.9	.9	1.4	10	83	112	59	51	225
13	.1	.54	1	7.9	1.3	1.2	9.7	113	106	59	56	206
14	.26	.6	1.1	5.5	1.6	6.7	9.3	131	107	53	59	158
15	.27	.67	1.1	.9	1.6	14	12	139	107	49	56	118
16	.29	.54	.9	.8	1.2	14	15	171	106	49	58	91
17	.25	.54	.81	.8	1.1	9.7	10	192	106	48	58	87
18	.4	8	.75	.8	7.3	2	9.8	196	167	48	50	101
19	.43	10	.7	.8	18	2	17	203	206	48	43	106
20	.46	8.3	.6	.8	20	3.9	22	202	215	49	40	99
21	.54	8.2	.6	.7	18	3.9	66	192	190	54	39	90
22	.61	8.3	.6	.7	17	3.7	96	184	143	69	39	99
23	.81	1.4	.6	.8	9.8	9.3	145	151	110	79	41	80
24	.81	.81	.6	.96	6.5	17	46	118	78	113	47	63
25	.15	.79	.6	.85	6	22	29	144	55	69	49	70
26	.30	.55	.6	.85	3.8	31	22	172	48	34	57	85
27	.30	.55	.6	.9	2.3	34	19	176	55	39	71	91
28	.19	.55	.8	.84	1.5	18	16	126	70	48	73	59
29	5	.6	1.1	.87	---	11	14	113	109	64	53	39
30	1.5	.6	.78	.85	---	8.5	16	149	111	93	120	42
31	1.1	---	.7	.83	---	21	---	162	---	106	179	---
TOTAL	110.63	65.59	43.94	54.16	126.4	250	858.5	3631	5292	1812	1755	3716
MEAN	3.57	2.19	1.42	1.75	4.51	8.1	28.6	117	176	59	57	124
AC-FT	219	130	87	107	251	496	1700	7200	10500	3590	3480	7370
MAX	30	10	10	7.9	20	34	145	203	354	113	179	421
MIN	.01	.48	.6	.54	.7	1.2	8.4	15	48	34	35	39

CAL YR 2002 TOTAL 4075.68 MEAN 11.2 MAX 118 MIN .01 AC-FT 8080
WTR YR 2003 TOTAL 17715.22 MEAN 48.5 MAX 421 MIN .01 AC-FT 35140

MAX DISCH: 492 CFS AT 09:45 ON Sep. 5, 2003 GH 3.14 FT. SHIFT 0.09 FT.
MAX GH: 3.14 FT. AT 09:45 ON Sep. 5, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07126500 PURGATOIRE RIVER AT NINEMILE DAM, NEAR HIGBEE, CO (RIVER ONLY)

LOCATION.--Lat 37°42'53", long 103°30'38", in NW¼ sec. 7, T.27 S., R.54 W., Otero County, Hydrologic Unit 11020010, on left bank at Ninemile Dam, 4 mi southwest of Higbee, and 5.5 mi upstream from Smith Canyon. Prior to Apr. 21, 1978 gage located 850 ft, upstream.

DRAINAGE AREA.--2,752 mi².

GAGE.--Accubar water level sensor and satellite-monitored data collection platform (Sutron 8210 HDR DCP) in a 4 ft by 4 ft steel shelter. The primary gage is an outside drop tape from a reference point on a steel "I" beam on the wall face between Ninemile Dam and the Ninemile Canal headgate. Control is the Ninemile Dam. DCP data log file is the primary record with satellite-monitored gage height data providing backup. SDI radio bridge used to monitor Ninemile Canal gage height was removed on August 20, 2003 due to unreliable operation. A temporary orifice line was installed on June 2, 2003 after the original line had been vandalized several times.

REMARKS.--Record complete and reliable except for the following periods: Oct 30, 31, Nov 1-5, 2002, when the DCP malfunctioned and did not log or transmit data. May 15-31, Jun 1,2, 2003, when the orifice line was vandalized. Dec 20-31, 2002; Jan 1-4, 23-25, Feb 7-11, 24-27, 2003, when the stage-discharge relationship was affected by ice. Record fair, except during periods of estimated flow, flows over 500 cfs, and flows less than 5 cfs, all of which should be considered poor. Station maintained and record developed by Adam Adame.

RATING TABLE.--PURNINCO17 USED FROM 01-OCT-2002 TO 07-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

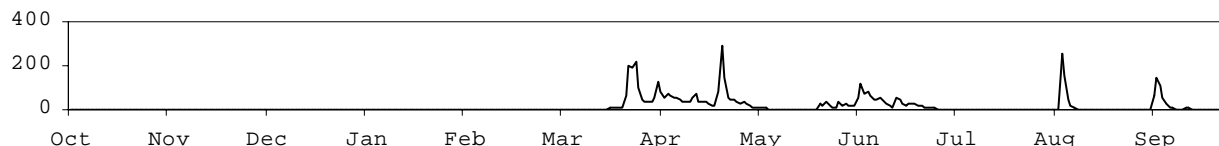
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	39	36	15	0	0	0
2	0	0	0	0	0	0	35	24	30	0	0	0
3	0	0	0	0	0	0	55	16	22	0	0	0
4	0	0	0	0	0	0	129	10	16	0	0	0
5	0	0	0	0	0	0	82	7.6	15	0	0	0
6	0	0	0	0	0	0	54	6.2	59	0	0	0
7	0	0	0	0	0	0	70	6	119	0	0	63
8	0	0	0	0	0	0	66	5	69	0	0	146
9	0	0	0	0	0	0	58	3.9	81	0	254	106
10	0	0	0	0	0	0	51	3.1	66	0	156	51
11	0	0	0	0	0	0	44	2.7	47	0	44	26
12	0	0	0	0	0	0	40	.79	46	0	19	13
13	0	0	0	0	0	0	35	0	54	0	12	11
14	0	0	0	0	0	0	35	0	37	0	4.1	3.7
15	0	0	0	0	0	0	53	0	27	0	0	0
16	0	0	0	0	0	0	71	0	16	0	0	3.6
17	0	.85	0	0	0	0	38	0	12	0	0	12
18	0	1.7	0	0	0	0	37	0	56	0	0	10
19	0	0	0	0	0	.07	33	0	45	0	0	3.2
20	0	0	0	0	0	7.6	27	0	28	0	0	0
21	0	0	0	0	0	12	19	0	20	0	0	0
22	0	0	0	0	0	5.9	21	0	30	0	0	0
23	0	0	0	0	0	9.3	78	0	24	0	0	0
24	0	0	0	0	0	12	294	0	26	0	0	0
25	0	0	0	0	0	60	145	30	20	0	0	0
26	0	0	0	0	0	198	57	16	14	0	0	0
27	0	0	0	0	0	190	44	40	11	0	0	0
28	0	0	0	0	0	222	43	20	13	0	0	0
29	0	0	0	0	---	100	36	10	12	0	0	0
30	0	0	0	0	---	50	28	7	11	0	0	0
31	0	---	0	0	---	35	---	40	---	0	0	---
TOTAL	0	2.55	0	0	0	901.87	1817	284.29	1041	0	489.1	448.5
MEAN	0	.09	0	0	0	29.1	61	9.17	35	0	15.8	14.9
AC-FT	0	5.1	0	0	0	1790	3600	564	2060	0	970	890
MAX	0	1.7	0	0	0	222	294	40	119	0	254	146
MIN	0	0	0	0	0	0	19	0	11	0	0	0

CAL YR 2002 TOTAL 6386.34 MEAN 17.5 MAX 992 MIN 0 AC-FT 12670
WTR YR 2003 TOTAL 4984.31 MEAN 13.7 MAX 294 MIN 0 AC-FT 9890

MAX DISCH: 1340 CFS AT 11:00 ON Aug. 9, 2003 GH 4.60 FT. SHIFT 0.01 FT.

MAX GH: 4.60 FT. AT 11:00 ON Aug. 9, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07126500 NINEMILE CANAL BELOW NINEMILE DAM NEAR HIGBEE, CO.

LOCATION.--Lat 37°42'53", long 103°30'38", in NW¼ sec. 7, T.27 S., R.54 W., Otero County.

DRAINAGE AREA.--N/A

GAGE.--Float-activated graphic water-stage recorder, SDI shaft encoder, and SDI Radio Bridge to Purgatoire River at Ninemile Dam satellite-monitored DCP (Sutron 8210) data collection platform in a 3 ft by 3 ft steel shelter with well. Primary record is DCP data log with satellite-monitored data and the graphic chart recorder used for backup purposes. Six-foot standard concrete Parshall flume is the control. Primary reference gage is outside staff gage installed in flume. On Aug 20, 2003 the SDI Radio Bridge was replaced with a High Data Rate Sutron SatLink DCP.

REMARKS.--Record is complete and reliable, except for the periods: Dec 19-31, 2002; Jan 1-4, 23-25, Feb 7-11, 24-27, 2003 when the stage-discharge relationship was affected by ice. The SDI Radio Bridge did not transmit data values with high reliability. On a majority of days from Oct 1, 2002 to August 20, 2003, bad values were replaced using chart record data. Record good, except during periods of ice effect on the stage-discharge relationship, which should be considered poor. Station maintained and record developed by Adam Adame.

RATING TABLE.--NMCHIGCO01 USED FROM 01-OCT-2002 TO 01-OCT-2003

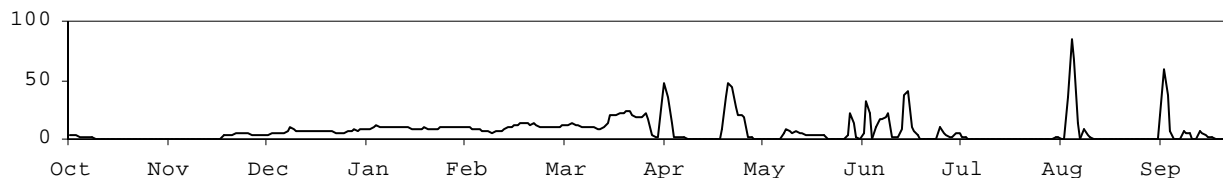
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	0	3.7	9	11	10	3.8	1.4	3.4	5.1	0	0
2	3.5	0	4.2	8	11	11	1.1	.87	22	2.6	0	0
3	2.9	0	4.8	9	11	11	1	.65	13	1.4	0	0
4	2.3	0	5.7	10	9.3	12	33	.71	2.4	2.1	0	0
5	1.8	.24	5.7	12	8.3	12	48	.71	.61	4.5	1.2	0
6	1.3	.16	5.7	11	7.9	12	35	.73	4.5	4.7	1.5	0
7	1	.14	5.6	11	6.9	13	13	.82	32	2.3	0	21
8	.86	.14	6.9	11	6.9	12	.94	.82	22	.93	0	59
9	.68	.14	11	11	6.7	12	.95	.82	.34	.46	36	37
10	.54	.11	9.2	11	5.6	11	.88	.82	11	0	85	7.5
11	.36	.09	7.5	11	6.5	11	.88	.84	17	0	67	0
12	.23	.07	6.9	10	7.2	10	.79	5.3	17	0	13	0
13	.17	.05	6.9	11	7.5	10	.82	8	18	0	0	0
14	.12	.29	6.8	10	8.8	9.4	.77	6.3	22	0	7.8	6.6
15	.09	.33	7.2	9.5	10	9.1	.75	5.9	2.1	0	3.8	5.9
16	.06	.32	7	9	11	8.9	.71	7.3	1.4	0	1.4	5.5
17	.03	.44	7	8.9	12	9.6	.71	5.9	1.4	0	.61	0
18	0	3.1	6.7	9.3	12	14	.71	4.8	8	0	0	0
19	0	3.1	6.2	9.3	13	20	.71	3.8	38	0	0	6.4
20	0	2.6	6.2	9.5	14	20	.71	3.7	41	0	0	4.6
21	0	3.9	6.2	8.7	13	21	.71	3.6	11	0	0	3.1
22	0	4.3	6	8.1	12	22	.71	3.3	7.2	0	0	2.1
23	0	4.4	5.5	7.9	13	22	7.7	3	4	0	0	1.2
24	0	4.3	5	9	12	23	36	3.2	.61	0	0	.68
25	0	4.3	5	10	11	24	48	2.8	.61	0	0	.52
26	0	4.4	5.5	10	10	20	44	.06	.52	0	0	0
27	0	4.1	6	11	11	18	27	.04	.43	0	0	0
28	0	4	7	11	11	18	20	.15	.32	0	0	0
29	0	3.8	8	11	---	18	20	.17	.31	0	0	0
30	0	3.7	7.5	11	---	22	18	.16	9.4	0	0	0
31	0	---	8	11	---	17	---	.19	---	0	0	---
TOTAL	20.04	52.52	200.6	309.2	279.6	463	367.35	76.86	311.55	24.09	217.31	161.1
MEAN	.65	1.75	6.5	10	10	14.9	12.2	2.48	10.4	.78	7.01	5.37
AC-FT	40	104	398	613	555	918	729	152	618	48	431	320
MAX	4.1	4.4	11	12	14	24	48	8	41	5.1	85	59
MIN	0	0	3.7	7.9	5.6	8.9	.71	.04	.31	0	0	0

CAL YR 2002 TOTAL 2294.36 MEAN 6.29 MAX 60 MIN 0 AC-FT 4550
WTR YR 2003 TOTAL 2483.22 MEAN 6.8 MAX 85 MIN 0 AC-FT 4930

MAX DISCH: 99.8 CFS AT 20:00 ON Aug. 10, 2003 GH 2.44 FT. SHIFT 0 FT.
MAX GH: 2.44 FT. AT 20:00 ON Aug. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07126500 PURGATOIRE RIVER AT NINEMILE DAM, NEAR HIGBEE, CO (COMBINED)

LOCATION.--Lat 37°42'53", long 103°30'38", in NW¼ sec. 7, T.27 S., R.54 W., Otero County, Hydrologic Unit 11020010, on left bank at Ninemile Dam, 4 mi southwest of Higbee, and 5.5 mi upstream from Smith Canyon. Prior to Apr. 21, 1978 gage located 850 ft, upstream.

DRAINAGE AREA.--2,752 mi².

REMARKS.--The combined record of discharges was obtained by the addition of daily flows from the Ninemile Canal to the corresponding daily flows in the Purgatoire River at Ninemile Dam. The peak discharge for the water year was 1370 cfs at 1100 on August 9, 2003. Combined record is fair, except during periods of estimated flows and during periods of flow over 500 cfs, all of which should be considered poor. Station maintained and record developed by Div. II personnel.

PURGATOIRE RIVER AT NINEMILE DAM AND NINEMILE CANAL (COMBINED)

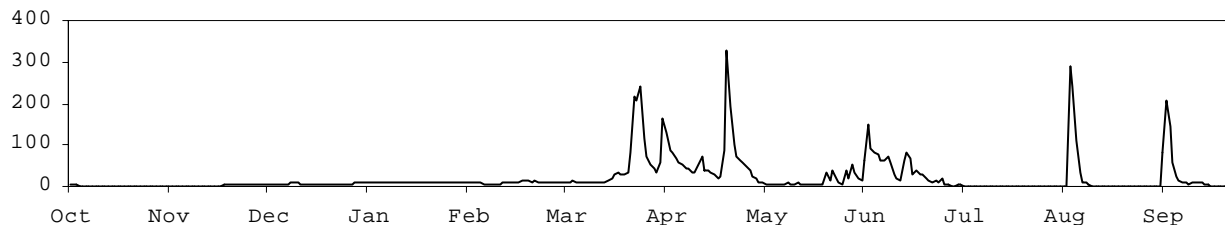
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	0	3.7	9	11	10	43	37	18	5.1	0	0
2	3.5	0	4.2	8	11	11	36	25	52	2.6	0	0
3	2.9	0	4.8	9	11	11	56	17	35	1.4	0	0
4	2.3	0	5.7	10	9.3	12	162	11	18	2.1	0	0
5	1.8	.24	5.7	12	8.3	12	130	8.3	16	4.5	1.2	0
6	1.3	.16	5.7	11	7.9	12	89	6.9	64	4.7	1.5	0
7	.1	.14	5.6	11	6.9	13	83	6.8	151	2.3	0	84
8	.86	.14	6.9	11	6.9	12	67	5.8	91	.93	0	205
9	.68	.14	11	11	6.7	12	59	4.7	81	.46	290	143
10	.54	.11	9.2	11	5.6	11	52	3.9	77	0	241	59
11	.36	.09	7.5	11	6.5	11	45	3.5	64	0	111	26
12	.23	.07	6.9	10	7.2	10	41	6.1	63	0	32	13
13	.17	.05	6.9	11	7.5	10	36	8	72	0	12	11
14	.12	.29	6.8	10	8.8	9.4	36	6.3	59	0	12	10
15	.09	.33	7.2	9.5	10	9.1	54	5.9	29	0	3.8	5.9
16	.06	.32	7	9	11	8.9	72	7.3	17	0	1.4	9.1
17	.03	1.3	7	8.9	12	9.6	39	5.9	13	0	.61	12
18	0	4.8	6.7	9.3	12	14	38	4.8	64	0	0	10
19	0	3.1	6.2	9.3	13	20	34	3.8	83	0	0	9.6
20	0	2.6	6.2	9.5	14	28	28	3.7	69	0	0	4.6
21	0	3.9	6.2	8.7	13	33	20	3.6	31	0	0	3.1
22	0	4.3	6	8.1	12	28	22	3.3	37	0	0	2.1
23	0	4.4	5.5	7.9	13	31	86	3	28	0	0	1.2
24	0	4.3	5	9	12	35	330	3.2	27	0	0	.68
25	0	4.3	5	10	11	84	193	33	21	0	0	.52
26	0	4.4	5.5	10	10	218	101	16	15	0	0	0
27	0	4.1	6	11	11	208	71	40	11	0	0	0
28	0	4	7	11	11	240	63	20	13	0	0	0
29	0	3.8	8	11	---	118	56	10	12	0	0	0
30	0	3.7	7.5	11	---	72	46	7.2	20	0	0	0
31	0	---	8	11	---	52	---	40	---	0	0	---
TOTAL	20.04	55.08	200.6	309.2	279.6	1365	2188	361	1351	24.09	706.51	609.8
MEAN	.65	1.84	6.5	10	10	44	73	11.6	45	.78	22.8	20.3
AC-FT	40	109	398	613	555	2710	4340	716	2680	48	1400	1210
MAX	4.1	4.8	11	12	14	240	330	40	151	5.1	290	205
MIN	0	0	3.7	7.9	5.6	8.9	20	3	11	0	0	0

CAL YR 2002	TOTAL	8676.76	MEAN	23.8	MAX	1000	MIN	0	AC-FT	17210
WTR YR 2003	TOTAL	7469.92	MEAN	20.5	MAX	330	MIN	0	AC-FT	14820

MAX DISCH.: 1370 CFS AT 11:00 ON Aug. 9, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

PURGATOIRE RIVER below HIGHLAND DAM near LAS ANIMAS, CO

LOCATION.--Lat 37°54'03", Long 103°17'56" (Hackamore Ranch, CO Quadrangle, Scale 1:24,000), NE1/4, SW1/4, Section 1, T25S, R53W. On the left bank approximately ¼ mile downstream of the Highland Canal Diversion Dam, Bent County, 11 mi southwest of Las Animas, Colorado.

DRAINAGE AREA.--N/A

GAGE.--Graphic water stage recorder, gas-purge manometer, satellite-monitored data collection platform (Sutron 8004 DCP) and shaft encoder in a 4 ft x 4 ft steel shelter. Graphic water stage recorder, gas-purge manometer and 8004 DCP removed April 22, 2003, and replaced with Sutron Accubar and Sutron 8200 DCP. Primary record is satellite-monitored data with the graphic chart recorder used for backup purposes for the period October 1, 2002 to April 22, 2003. Primary record after April 22, 2003 to end of water year is DCP data log file with satellite data use for backup. A concrete flood block and new orifice line were installed in May 2003 and started in service on May 23, 2003. Primary reference gage is outside staff gage on left side of channel approximately 150 ft east of shelter.

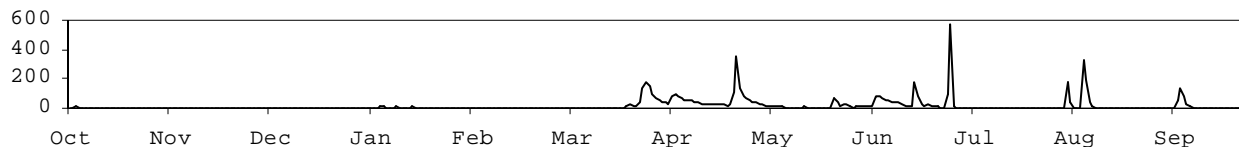
REMARKS.--Record is complete and reliable for the period April 26-Sept 30, 2003. Record poor during the period October 1, 2002 to April 25, 2003. Record good for the remainder of the water year, except during periods when flows were greater than 500 cfs, which are poor. Gage operated and maintained by Adam Adame.

RATING TABLE.--PURHILCO2 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	0	.04	1	1.3	.25	53	40	15	7.7	0	0
2	6.7	0	.04	2	1.3	.23	44	33	12	6.3	0	0
3	7.3	0	.04	3	.89	.2	37	25	20	2	0	0
4	2	0	.04	4	.42	.2	32	19	16	.54	0	0
5	.77	0	.07	7	.27	.2	78	14	12	.22	181	0
6	1.7	0	.08	7.5	.43	.16	93	6.9	9.8	.06	39	0
7	.15	0	.08	6.1	.42	.08	80	12	88	.03	4.5	0
8	0	0	.08	5.1	.41	.04	75	9.3	76	.03	.2	57
9	0	0	.08	4.2	.4	.01	61	7	62	0	1.9	140
10	0	0	.04	8.3	.41	0	54	5.4	61	.01	327	78
11	0	0	0	4.9	.42	0	48	4.6	50	.01	191	30
12	0	0	0	4.1	.41	0	40	4.4	40	0	35	15
13	0	0	.01	4	.41	0	35	3.7	40	.01	12	6.6
14	0	0	.02	4.3	.41	0	26	2.9	45	0	6.7	3.9
15	0	0	.01	7.3	.41	0	27	2.2	31	0	1.8	2.2
16	0	0	.02	6	.41	0	29	9.5	19	0	.22	.42
17	0	0	.02	3.7	.4	0	32	2.2	11	0	.01	.08
18	0	0	.03	1.4	.36	0	28	.51	17	0	0	0
19	0	0	.01	.65	.35	0	28	.03	184	0	0	0
20	0	0	0	.4	.36	0	32	0	76	0	0	.31
21	0	0	.06	.18	.36	5.9	30	0	33	0	0	.25
22	0	0	.11	.04	.31	16	20	.01	17	0	0	.05
23	0	0	0	.16	.31	21	23	.08	21	0	0	0
24	0	0	.01	.06	.31	15	111	1.2	14	0	0	0
25	0	0	.06	.08	.31	16	350	68	11	0	0	0
26	0	0	.1	.84	.27	44	142	38	11	0	0	0
27	0	0	0	1.6	.25	137	87	19	6.4	0	0	0
28	.19	0	0	2.7	.25	178	66	23	3.5	0	0	0
29	0	0	0	3.4	---	152	57	21	96	0	0	0
30	0	.04	0	2.8	---	93	47	11	570	0	0	0
31	0	---	0	.75	---	64	---	5.3	---	0	0	---
TOTAL	24.31	.04	1.05	97.56	12.56	743.27	1865	388.23	1667.7	16.91	800.33	333.81
MEAN	.78	0	.03	3.15	.45	24	62	12.5	55.6	.55	25.8	11.1
AC-FT	48	.08	2.1	194	25	1470	3699	770	3310	34	1590	662
MAX	7.3	.04	.11	8.3	1.3	178	350	68	570	7.7	327	140
MIN	0	0	0	.04	.25	0	20	0	3.5	0	0	0
CAL YR 2002	TOTAL	7247.11	MEAN	19.9	MAX	1100	MIN	0	AC-FT	14370		
WTR YR 2003	TOTAL	5950.77	MEAN	16.3	MAX	570	MIN	0	AC-FT	11800		

MAX DISCH: 2800 CFS AT 02:15 ON Jun. 30, 2003 GH 10.13 FT. SHIFT 0.17 FT.
MAX GH: 10.13 FT. AT 02:15 ON Jun. 30, 2003
FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

HIGHLAND CANAL below HIGHLAND DAM near LAS ANIMAS, CO

LOCATION.--Lat 37°54'03", Long 103°17'56" (Hackamore Ranch, CO Quadrangle, Scale 1:24,000), NE1/4, SW1/4, Section 1, T25S, R53W. On the left bank approximately ¼ mile downstream of the Highland Canal Diversion Dam, Bent County, 11 mi southwest of Las Animas, Colorado.

DRAINAGE AREA.--N/A

GAGE.--Float-activated graphic water-stage recorder and shaft encoder in small shelter over CMP stilling well. Shaft encoder wired to satellite-monitored data collection platform (Sutron 8004 DCP) in Purgatoire River below Highland Dam gage shelter. Primary record is satellite-monitored data with the graphic chart recorder used for backup purposes. Shaft encoder replaced with SDI shaft encoder on April 24, 2003. Shelter was submerged by high flows on June 29, 2003. Shaft encoder and chart recorder replaced on July 1, 2003. Standard 5-ft steel Parshall flume is the control. Primary reference gage is outside staff gage installed in flume.

REMARKS.--Record is complete and reliable except for: April 21-24, 2003 when the entire river was diverted through the canal and the separate flows for the canal and river had to be estimated from the canal chart record. June 19-20, 2003 when the flume was submerged. June 29-July 1, 2003 when a flood submerged the gage shelter and caused the chart recorder and shaft encoder to malfunction. Record good, except for during periods when the flume was submerged, or when flooding exceeded the flume capacity, which is poor. Gage is operated and maintained by Adam Adame.

RATING TABLE.--STD05FTPF USED FROM 01-OCT-2002 TO 30-SEP-2003

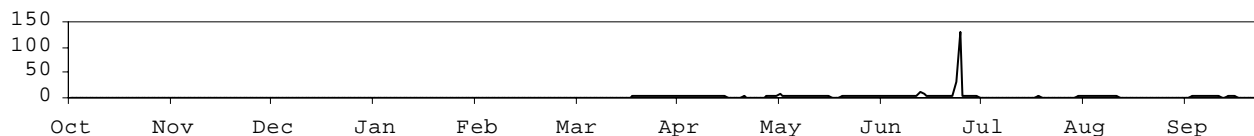
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	3.8	1.4	3.4	4.7	0	0
2	0	0	0	0	0	0	3.7	2.8	3.7	3.4	0	0
3	0	0	0	0	0	0	3.7	3.8	3.8	3.4	0	0
4	0	0	0	0	0	0	3.8	3.8	3.8	3.3	0	0
5	0	0	0	0	0	0	3.4	4	3.6	2.3	2.6	0
6	0	0	0	0	0	0	3.8	8.5	3.6	.85	3.6	0
7	0	0	0	0	0	0	3.7	3.6	3.6	.68	4	0
8	0	0	0	0	0	0	3.6	3.6	3.5	1	3.3	1
9	0	0	0	0	0	0	3.7	3.6	3.4	.79	2	4
10	0	0	0	0	0	0	3.8	3.6	3.4	.24	3.2	3.8
11	0	0	0	0	0	0	3.8	3.4	3.6	.14	3.9	3.7
12	0	0	0	0	0	0	3.8	2.7	3.5	.09	3.5	3.8
13	0	0	0	0	0	0	3.4	3.3	3.7	.07	3.4	3.8
14	0	0	0	0	0	0	3.8	3.2	4	.02	3	3.6
15	0	0	0	0	0	0	3.8	3.2	3.8	.01	3.4	3.7
16	0	0	0	0	0	0	3.7	3.9	3.8	0	3	3.7
17	0	0	0	0	0	0	3.7	2.9	3.8	0	2.4	2.9
18	0	0	0	0	0	0	3.6	2.4	13	0	.97	1.1
19	0	0	0	0	0	0	2.1	3.4	7.2	0	.3	1.3
20	0	0	0	0	0	0	.81	2.9	3.8	0	.13	3
21	0	0	0	0	0	0	.77	2	3.6	0	.09	2.9
22	0	0	0	0	0	2.4	.86	.78	3.6	0	.05	2.3
23	0	0	0	0	0	3.4	.93	.54	3.7	0	.02	1.3
24	0	0	0	0	0	3.4	1.7	.38	3.8	4	.02	.38
25	0	0	0	0	0	3.4	2.2	2.1	3.8	1.1	.02	.08
26	0	0	0	0	0	3.9	1.7	3.4	3.8	.25	0	.03
27	0	0	0	0	0	4	1.6	3.4	3.7	.16	0	.02
28	0	0	0	0	0	3.8	1.5	3.5	3.5	.08	0	0
29	0	0	0	0	---	3.6	1.4	3.6	32	.01	0	0
30	0	0	0	0	---	3.4	1.4	3.4	130	0	0	0
31	0	---	0	0	---	3.7	---	3.4	---	0	0	---
TOTAL	0	0	0	0	0	35	83.57	96.5	277.5	26.59	42.9	46.41
MEAN	0	0	0	0	0	1.13	2.79	3.11	9.3	.86	1.38	1.55
AC-FT	0	0	0	0	0	69	166	191	550	53	85	92
MAX	0	0	0	0	0	4	3.8	8.5	130	4.7	4	4
MIN	0	0	0	0	0	0	.77	.38	3.4	0	0	0

CAL YR 2002 TOTAL 297.54 MEAN 0.82 MAX 4 MIN 0 AC-FT 590
WTR YR 2003 TOTAL 608.47 MEAN 1.67 MAX 130 MIN 0 AC-FT 1210

MAX DISCH: 380 CFS (estimated) AT 22:00 ON Jun. 29, 2003 GH 6.42 FT. SHIFT 0 FT.
MAX GH: 6.42 FT. AT 22:00 ON Jun. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

PURGATOIRE RIVER below HIGHLAND DAM near LAS ANIMAS, CO (COMBINED)

HIGHLAND CANAL near LAS ANIMAS, CO

LOCATION.--Lat 37°54'03", Long 103°17'56" (Hackamore Ranch, CO Quadrangle, Scale 1:24,000), NE1/4, SW1/4, Section 1, T25S, R53W. On the left bank approximately ¼ mile downstream of the Highland Canal Diversion Dam, Bent County, 11 mi southwest of Las Animas, Colorado.

DRAINAGE AREA.--N/A

GAGE.--The combined record of discharges was obtained by the addition of Highland Canal daily flows to the corresponding daily flows in the Purgatoire River below Highland Dam. The peak discharge for the water year occurred at 0215 June 30, 2003 due to a runoff from a rain event upstream. The peak combined river and canal flow is estimated since the peak gage height on the canal exceeded the flume capacity by 2.42 ft. Estimated peak flow is 3180 cfs.

REMARKS.--Combined record is fair, except during periods of estimated flow and flows greater than 500 cfs, which should be considered poor.

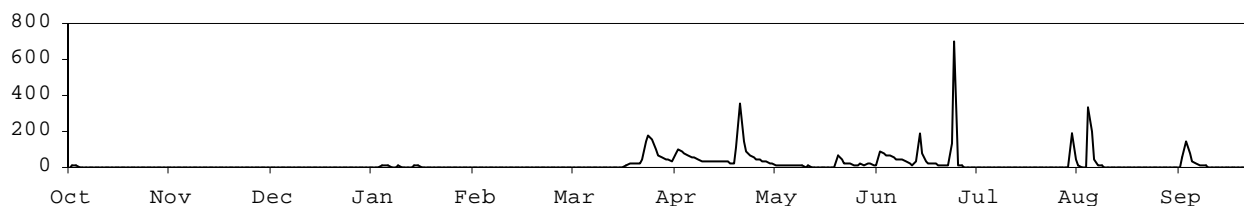
RATING TABLE.--COMBINED RECORD

PURGATOIRE RIVER AND HIGHLAND CANAL (COMBINED)

PURGATOIRE RIVER BELOW HIGHLAND DAM NEAR LAS ANIMAS, CO AND HIGHLAND CANAL (COMBINED)
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	0	.04	1	1.3	.25	57	41	18	12	0	0
2	6.7	0	.04	2	1.3	.23	48	36	16	9.7	0	0
3	7.3	0	.04	3	.89	.2	41	29	24	5.4	0	0
4	2	0	.04	4	.42	.2	36	23	20	3.8	0	0
5	.77	0	.07	7	.27	.2	81	18	16	2.5	184	0
6	1.7	0	.08	7.5	.43	.16	97	15	13	.91	43	0
7	.15	0	.08	6.1	.42	.08	84	16	92	.71	8.5	0
8	0	0	.08	5.1	.41	.04	79	13	80	1	3.5	58
9	0	0	.08	4.2	.4	.01	65	11	65	.79	3.9	144
10	0	0	.04	8.3	.41	0	58	9	64	.25	330	82
11	0	0	0	4.9	.42	0	52	8	54	.15	195	34
12	0	0	0	4.1	.41	0	44	7.1	44	.09	39	19
13	0	0	.01	4	.41	0	38	7	44	.08	15	10
14	0	0	.02	4.3	.41	0	30	6.1	49	.02	9.7	7.5
15	0	0	.01	7.3	.41	0	31	5.4	35	.01	5.2	5.9
16	0	0	.02	6	.41	0	33	13	23	0	3.2	4.1
17	0	0	.02	3.7	.4	0	36	5.1	15	0	2.4	3
18	0	0	.03	1.4	.36	0	32	2.9	30	0	.97	1.1
19	0	0	.01	.65	.35	0	30	3.4	191	0	.3	1.3
20	0	0	0	.4	.36	0	33	2.9	80	0	.13	3.3
21	0	0	.06	.18	.36	5.9	31	2	37	0	.09	3.1
22	0	0	.11	.04	.31	18	21	.79	21	0	.05	2.4
23	0	0	0	.16	.31	24	24	.62	25	0	.02	1.3
24	0	0	.01	.06	.31	18	113	1.6	18	4	.02	.38
25	0	0	.06	.08	.31	19	352	70	15	1.1	.02	.08
26	0	0	.1	.84	.27	48	144	41	15	.25	0	.03
27	0	0	0	1.6	.25	141	89	22	10	.16	0	.02
28	.19	0	0	2.7	.25	182	68	27	7	.08	0	0
29	0	0	0	3.4	---	156	58	25	128	.01	0	0
30	0	.04	0	2.8	---	96	48	14	700	0	0	0
31	0	---	0	.75	---	68	---	8.7	---	0	0	---
TOTAL	24.31	.04	1.05	97.56	12.56	777.27	1953	484.61	1949	43.01	844	380.51
MEAN	.78	0	.03	3.15	.45	25.1	65	15.6	65	1.39	27.2	12.7
AC-FT	48	.08	2.1	194	25	1540	3870	961	3870	85	1670	755
MAX	7.3	.04	.11	8.3	1.3	182	352	70	700	12	330	144
MIN	0	0	0	.04	.25	0	21	.62	7	0	0	0
CAL YR 2002	TOTAL	7517.51	MEAN	20.6	MAX	1100	MIN	0	AC-FT	14910		
WTR YR 2003	TOTAL	6566.92	MEAN	18	MAX	700	MIN	0	AC-FT	13030		

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ARKANSAS RIVER BASIN

07134125 ARKANSAS RIVER below X-Y DITCH DAM nr CARLTON, CO

LOCATION.--Lat 38°06'17", long 102°25'17", SE¼SW¼ sec.25, T. 22 S., R.45 W., Prowers Co., Hydrologic Unit 11020009, on the right bank, 0.75 mi. west of Co Rd. 19, 0.3 mi. downstream of the former X-Y Ditch diversion dam and headgate and 1 mile northwest of Carlton, Co.

DRAINAGE AREA. --Undetermined.

GAGE.--Sutron Accubar water level sensor and satellite-monitored data collection platform (Sutron 8200 DCP) in a 4' x 4' steel shelter. Outside staff gage on right side below shelter is the primary reference gage. Primary record is DCP log data with satellite-monitored data used for backup. Outside staff gage on right side of channel below shelter is primary reference gage.

REMARKS.--Record is complete and reliable except for the following periods: Oct 19, 2002; Apr 4 and Aug 21, 2003 when the DCP malfunctioned. Sep 10-15, 2003 due to a nitrogen leak. Dec 25-28, 2002; Feb 24-26, 2003 when ice affected the stage-discharge relationship. Record good, except for those periods of estimated record and ice effect, which should be considered poor. Station maintained and record developed by Adam Adame.

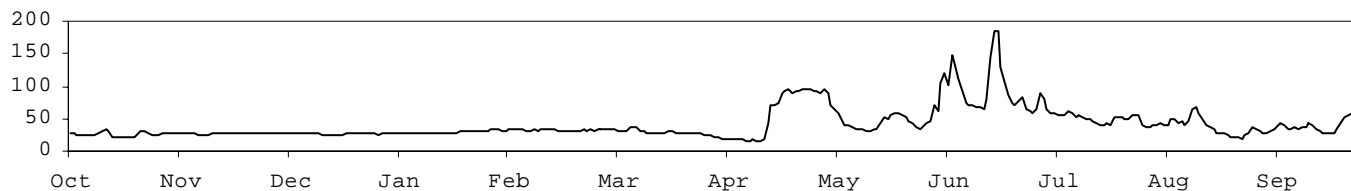
RATING TABLE.--ARKCARCO04 USED FROM 01-OCT-2002 TO 07-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	28	27	28	32	33	23	90	47	65	37	35
2	27	28	27	27	34	33	21	95	70	89	36	30
3	25	28	27	27	34	33	20	88	63	80	40	27
4	24	27	27	27	33	33	20	71	105	65	41	27
5	24	27	27	27	34	32	20	66	121	60	42	32
6	24	26	27	27	33	32	19	59	101	57	40	34
7	24	26	27	27	32	32	19	45	147	54	41	38
8	25	26	27	27	32	37	17	41	134	56	48	44
9	28	26	27	27	33	38	17	39	112	55	50	40
10	31	27	27	27	32	37	16	36	91	62	42	35
11	33	27	26	27	33	32	16	35	74	58	45	34
12	31	27	26	27	33	30	17	34	72	53	41	37
13	23	27	26	27	33	28	14	33	70	54	46	35
14	21	28	26	27	33	28	14	31	69	51	64	38
15	21	28	26	28	33	28	18	32	67	50	67	38
16	21	27	26	27	32	28	42	34	65	50	58	43
17	21	28	26	27	32	28	71	35	81	47	48	39
18	22	28	27	27	32	29	71	43	146	44	40	34
19	22	28	27	30	32	32	74	51	184	41	38	32
20	27	28	27	30	32	30	88	50	186	41	33	29
21	30	28	27	30	32	29	93	56	130	43	28	29
22	30	28	27	30	32	28	94	57	109	41	29	29
23	27	28	27	31	33	27	90	57	87	52	27	29
24	26	28	27	31	32	27	92	55	74	53	26	33
25	25	28	27	31	33	27	93	51	72	52	23	42
26	25	28	27	31	32	27	94	46	78	50	22	51
27	27	27	26	31	33	28	94	44	84	50	21	56
28	28	27	27	33	34	27	94	37	64	54	20	60
29	28	27	28	33	---	25	93	35	62	56	26	62
30	28	27	28	33	---	25	92	38	58	55	29	64
31	28	---	27	32	---	24	---	44	---	41	38	---
TOTAL	805	821	831	894	915	927	1546	1528	2823	1679	1186	1156
MEAN	26	27	27	29	33	30	52	49	94	54	38	39
AC-FT	1600	1630	1650	1770	1810	1840	3070	3030	5600	3330	2350	2290
MAX	33	28	28	33	34	38	94	95	186	89	67	64
MIN	21	26	26	27	32	24	14	31	47	41	20	27
CAL YR 2002	TOTAL	27331	MEAN	74.9	MAX	1360	MIN	21	AC-FT	54210		
WTR YR 2003	TOTAL	15111	MEAN	41.4	MAX	186	MIN	14	AC-FT	29970		

MAX DISCH: 203 CFS AT 03:30 ON Jun. 20, 2003 GH 1.66 FT. SHIFT 0 FT.
MAX GH: 1.66 FT. AT 03:30 ON Jun. 20, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

ARKANSAS RIVER BASIN

09061500 COLUMBINE DITCH NEAR FREEMONT PASS, CO.

LOCATION.--Lat 39°22'25", long 106°13'38". Columbine ditch diverts water from tributaries of Eagle River in sec. 5, T.8 S., R. 79 W., in Colorado River basin to Chalk Creek (tributary to East Fork Arkansas River) in NW¼ sec. 9, T.8 S., R 79 W., in Arkansas River basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8004 DCP) and shaft encoder in a 30" diameter metal pipe shelter and well. Primary record is satellite-monitored data with the graphic chart recorder used for backup purposes. Shaft encoder and chart are set to outside staff gage. A Sutron SatLink High Data Rate DCP was installed July 31, 2003. Control is a 6-foot steel Parshall flume.

REMARKS.--Record is complete and reliable, except for the following days: May 20-24,28; June 6,8, 2003 when ice affected the stage-discharge relationship. Record good, except for periods of ice-affected record, which is poor. Station maintained and record developed by L.R. Schultz.

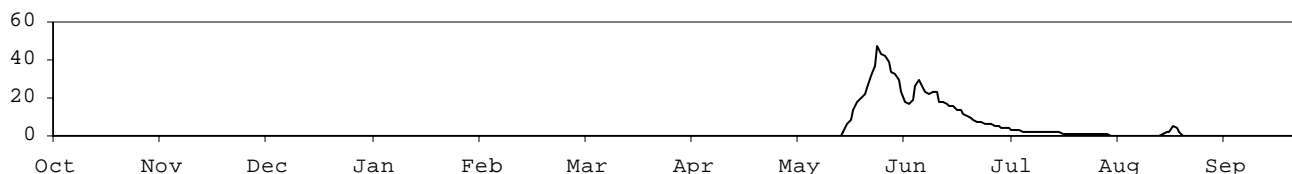
RATING TABLE.--COLDITCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	39	5.9	.59	0
2	0	0	0	0	0	0	0	0	34	5.5	.54	0
3	0	0	0	0	0	0	0	0	33	5.1	.77	0
4	0	0	0	0	0	0	0	0	29	4.6	.68	0
5	0	0	0	0	0	0	0	0	23	4.1	.5	0
6	0	0	0	0	0	0	0	0	18	3.8	.44	0
7	0	0	0	0	0	0	0	0	17	3.5	.28	0
8	0	0	0	0	0	0	0	0	19	3	0	0
9	0	0	0	0	0	0	0	0	26	2.7	0	0
10	0	0	0	0	0	0	0	0	30	2.5	0	0
11	0	0	0	0	0	0	0	0	25	2.2	0	0
12	0	0	0	0	0	0	0	0	23	2.1	0	0
13	0	0	0	0	0	0	0	0	22	1.9	0	0
14	0	0	0	0	0	0	0	0	23	1.8	0	0
15	0	0	0	0	0	0	0	0	23	1.8	0	0
16	0	0	0	0	0	0	0	0	18	1.7	0	0
17	0	0	0	0	0	0	0	0	18	2	0	0
18	0	0	0	0	0	0	0	0	17	2.2	0	0
19	0	0	0	0	0	0	0	2.5	16	1.9	0	0
20	0	0	0	0	0	0	0	6	16	1.7	.54	0
21	0	0	0	0	0	0	0	8	14	1.6	1.9	0
22	0	0	0	0	0	0	0	14	14	1.5	2.2	0
23	0	0	0	0	0	0	0	18	12	1.5	4.9	0
24	0	0	0	0	0	0	0	20	11	1.4	4.7	0
25	0	0	0	0	0	0	0	22	9.5	1.3	2.6	0
26	0	0	0	0	0	0	0	25	8.2	1.3	.16	0
27	0	0	0	0	0	0	0	32	7.6	1.4	.01	0
28	0	0	0	0	0	0	0	37	7.1	1.2	.02	0
29	0	0	0	0	---	0	0	47	6.7	1.1	0	0
30	0	0	0	0	---	0	0	43	6.3	.92	.21	0
31	0	---	0	0	---	0	---	42	---	.83	.12	---
TOTAL	0	0	0	0	0	0	0	316.5	565.4	74.05	21.16	0
MEAN	0	0	0	0	0	0	0	10.2	18.8	2.39	.68	0
AC-FT	0	0	0	0	0	0	0	628	1120	147	42	0
MAX	0	0	0	0	0	0	0	47	39	5.9	4.9	0
MIN	0	0	0	0	0	0	0	0	6.3	.83	0	0
CAL YR 2002	TOTAL	393.33	MEAN	1.08	MAX	21	MIN	0	AC-FT	780		
WTR YR 2003	TOTAL	977.11	MEAN	2.68	MAX	47	MIN	0	AC-FT	1940		

MAX DISCH: 68.5 CFS AT 17:15 ON May. 29, 2003 GH 1.9 FT. SHIFT 0.03 FT.
MAX GH: 1.9 FT. AT 17:15 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

ARKANSAS RIVER BASIN

09062000 EWING DITCH AT TENNESSEE PASS, CO

LOCATION.--Lat 39°21'40", long 106°18'22", diverts water from Piney Creek in sec. 11, T.8 S., R.80 W., in Eagle River basin, to Thayer Gulch (tributary to Tennessee Creek) in sec. 11, T. 8 S., R.80 W., in Arkansas River basin

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (DCP) and shaft encoder in a 30" diameter metal pipe shelter and well. Primary record is satellite-monitored data with the graphic chart recorder used for backup purposes. Shaft encoder and chart are set to outside staff gage. A Sutron SatLink high data rate DCP was installed on Jul. 31, 2003. Control is a 4-foot steel Parshall flume.

REMARKS.--Record is complete and reliable, except for the following days when the stage- discharge relationship was affected by ice in the flume: Apr. 28-30; May 1-9,12-14, 2003. Record fair. Station maintained and record developed by L.R. Schultz.

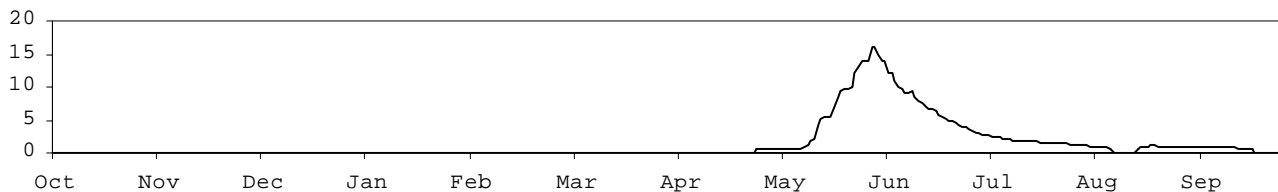
RATING TABLE.--EWIDITCO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	.6	16	3.3	1.1	.83
2	0	0	0	0	0	0	0	.58	16	3.1	1.1	.79
3	0	0	0	0	0	0	0	.7	15	2.9	1.2	.83
4	0	0	0	0	0	0	0	.75	14	2.8	1.1	.83
5	0	0	0	0	0	0	0	.5	14	2.7	1	.87
6	0	0	0	0	0	0	0	.55	12	2.6	1	.95
7	0	0	0	0	0	0	0	.58	12	2.5	1	1
8	0	0	0	0	0	0	0	.5	11	2.4	.98	.92
9	0	0	0	0	0	0	0	.5	10	2.3	.98	1
10	0	0	0	0	0	0	0	.58	9.6	2.2	.95	1
11	0	0	0	0	0	0	0	.58	9.1	2.1	.73	.98
12	0	0	0	0	0	0	0	.8	9	2	0	.89
13	0	0	0	0	0	0	0	1.3	9.3	1.9	0	.89
14	0	0	0	0	0	0	0	1.7	8.4	1.9	0	.86
15	0	0	0	0	0	0	0	2.2	7.9	1.8	0	.81
16	0	0	0	0	0	0	0	4.1	7.6	1.8	0	.78
17	0	0	0	0	0	0	0	5.1	7.1	1.8	0	.77
18	0	0	0	0	0	0	0	5.6	6.8	1.8	0	.74
19	0	0	0	0	0	0	0	5.5	6.6	1.7	.48	.73
20	0	0	0	0	0	0	0	5.5	6.3	1.7	.85	.72
21	0	0	0	0	0	0	0	6.9	5.9	1.6	.84	.72
22	0	0	0	0	0	0	0	8.4	5.5	1.6	.93	.5
23	0	0	0	0	0	0	0	9.4	5.2	1.5	1.2	0
24	0	0	0	0	0	0	0	9.8	4.9	1.5	1.1	0
25	0	0	0	0	0	0	0	9.8	4.7	1.5	1	0
26	0	0	0	0	0	0	0	10	4.5	1.5	.95	0
27	0	0	0	0	0	0	0	12	4.2	1.4	.91	0
28	0	0	0	0	0	0	.5	13	4	1.4	.88	0
29	0	0	0	0	---	0	.7	14	3.8	1.4	.88	0
30	0	0	0	0	---	0	.65	14	3.6	1.3	.97	0
31	0	---	0	0	---	0	---	14	---	1.2	.87	---
TOTAL	0	0	0	0	0	0	1.85	159.52	254	61.2	23	18.41
MEAN	0	0	0	0	0	0	.06	5.15	8.5	2	.74	.61
AC-FT	0	0	0	0	0	0	3.7	316	504	121	46	37
MAX	0	0	0	0	0	0	.7	14	16	3.3	1.2	1
MIN	0	0	0	0	0	0	0	.5	3.6	1.2	0	0
CAL YR 2002	TOTAL	89.88	MEAN	0.25	MAX	2.4	MIN	0	AC-FT	178		
WTR YR 2003	TOTAL	517.98	MEAN	1.42	MAX	16	MIN	0	AC-FT	1030		

MAX DISCH: 18.9 CFS AT 10:45 ON Jun. 1, 2003 GH 1.15 FT. SHIFT -0.04 FT.
MAX GH: 1.15 FT. AT 10:45 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

ARKANSAS RIVER BASIN

09062500 WURTZ DITCH NEAR TENNESSEE PASS, CO

LOCATION.--Lat 39°21'15", long 106°21'09"; diverts water from tributaries of Eagle River in Colorado River basin to West Tennessee Creek (tributary to Tennessee Creek) in sec. 17, T.8 S., R.80 W., in Arkansas River basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8004 DCP) and shaft encoder in a 30" diameter metal pipe shelter and well. A Sutron SatLink high data rate DCP was installed July 31, 2003. Primary record is satellite-monitored data with the graphic chart recorder used for backup purposes. Shaft encoder and chart are set to outside staff gage. Control is a 6-foot steel Parshall flume.

REMARKS.--Record is complete and reliable, except for the following periods: May 2-4, 7, 8, 19-21, 2003 when the stage was ice-affected. Record good, except for those periods of ice affected record, which is poor. Station maintained and record developed by L.R. Schultz.

RATING TABLE.--WURDITCO01 USED FROM 01-OCT-2002 TO 09-SEP-2003

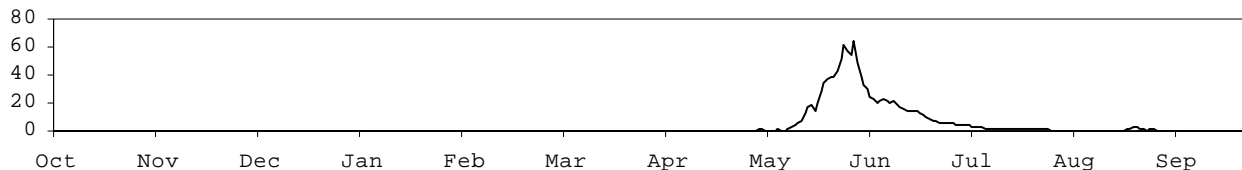
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	65	5.1	.5	.71
2	0	0	0	0	0	0	0	.2	48	4.9	.43	.43
3	0	0	0	0	0	0	0	1	39	4.7	.42	.52
4	0	0	0	0	0	0	0	1.2	33	4.3	.39	.41
5	0	0	0	0	0	0	0	0	30	3.9	.35	0
6	0	0	0	0	0	0	0	0	24	3.6	.27	0
7	0	0	0	0	0	0	0	.3	23	3.5	.16	0
8	0	0	0	0	0	0	0	.5	20	3.2	0	0
9	0	0	0	0	0	0	0	.73	21	2.9	0	0
10	0	0	0	0	0	0	0	.69	23	2.6	0	0
11	0	0	0	0	0	0	0	.6	21	1.9	0	0
12	0	0	0	0	0	0	0	1.2	20	1.8	0	0
13	0	0	0	0	0	0	0	2.3	22	1.8	0	0
14	0	0	0	0	0	0	0	3.7	18	1.7	0	0
15	0	0	0	0	0	0	0	5.4	17	1.7	0	0
16	0	0	0	0	0	0	0	7.3	16	1.7	0	0
17	0	0	0	0	0	0	0	13	14	1.6	0	0
18	0	0	0	0	0	0	0	17	14	1.6	0	0
19	0	0	0	0	0	0	0	18	14	1.5	0	0
20	0	0	0	0	0	0	0	15	15	1.4	0	0
21	0	0	0	0	0	0	0	20	13	1.3	0	0
22	0	0	0	0	0	0	0	28	11	1.1	.28	0
23	0	0	0	0	0	0	0	34	9.8	1.1	.95	0
24	0	0	0	0	0	0	0	37	8.8	1	1.3	0
25	0	0	0	0	0	0	0	38	7.6	1.2	2.2	0
26	0	0	0	0	0	0	0	38	6.8	1.1	2.5	0
27	0	0	0	0	0	0	0	43	6.4	1.8	.93	0
28	0	0	0	0	0	0	0	51	6.1	1.1	.82	0
29	0	0	0	0	---	0	0	61	5.9	1.1	.71	0
30	0	0	0	0	---	0	0	57	5.5	.92	.82	0
31	0	---	0	0	---	0	---	55	---	.67	1	---
TOTAL	0	0	0	0	0	0	0	550.12	577.9	67.79	14.03	2.07
MEAN	0	0	0	0	0	0	0	17.7	19.3	2.19	.45	.07
AC-FT	0	0	0	0	0	0	0	1090	1150	134	28	4.1
MAX	0	0	0	0	0	0	0	61	65	5.1	2.5	.71
MIN	0	0	0	0	0	0	0	0	5.5	.67	0	0

CAL YR 2002 TOTAL 326.07 MEAN 0.89 MAX 12 MIN 0 AC-FT 647
WTR YR 2003 TOTAL 1211.91 MEAN 3.32 MAX 65 MIN 0 AC-FT 2400

MAX DISCH: 88.7 CFS AT 19:30 ON May. 29, 2003 GH 2.24 FT. SHIFT 0.03 FT.
MAX GH: 2.24 FT. AT 19:30 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

ARKANSAS RIVER BASIN

WURTZ DITCH EXTENSION NEAR LEADVILLE, CO AT TENNESSEE PASS

LOCATION.--Lat 39°23'41", long 106°21'10", sec. 32, T.7 S., R.80 W., Eagle County.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8004 DCP) and shaft encoder in a 30" diameter metal pipe shelter and well. Primary record is satellite-monitored data with the graphic chart recorder used for backup purposes. Shaft encoder and chart are set to outside staff gage. Control is a 6-foot steel Parshall flume.

REMARKS.--Record is complete and reliable except for the following periods: May 20-24,31, 2003 due to ice-affected flow in the flume. Record good, except that for estimated days, which is poor. Station maintained and record developed by L.R. Schultz.

RATING TABLE.--WUREXDC001 USED FROM 01-OCT-2002 TO 30-SEP-2003

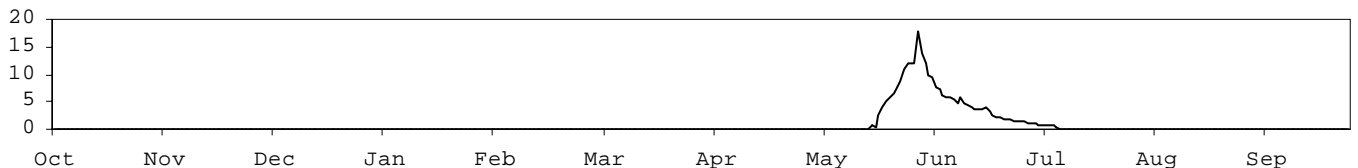
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	18	1.3	0	0
2	0	0	0	0	0	0	0	0	14	1.1	0	0
3	0	0	0	0	0	0	0	0	12	1	0	0
4	0	0	0	0	0	0	0	0	9.9	.95	0	0
5	0	0	0	0	0	0	0	0	9.4	.86	0	0
6	0	0	0	0	0	0	0	0	7.6	.78	0	0
7	0	0	0	0	0	0	0	0	7.3	.75	0	0
8	0	0	0	0	0	0	0	0	6.2	.65	0	0
9	0	0	0	0	0	0	0	0	6	.57	0	0
10	0	0	0	0	0	0	0	0	6	.32	0	0
11	0	0	0	0	0	0	0	0	5.4	0	0	0
12	0	0	0	0	0	0	0	0	4.9	0	0	0
13	0	0	0	0	0	0	0	0	5.8	0	0	0
14	0	0	0	0	0	0	0	0	4.8	0	0	0
15	0	0	0	0	0	0	0	0	4.3	0	0	0
16	0	0	0	0	0	0	0	0	4	0	0	0
17	0	0	0	0	0	0	0	0	3.7	0	0	0
18	0	0	0	0	0	0	0	0	3.6	0	0	0
19	0	0	0	0	0	0	0	.75	3.5	0	0	0
20	0	0	0	0	0	0	0	.5	3.9	0	0	0
21	0	0	0	0	0	0	0	2.5	3.2	0	0	0
22	0	0	0	0	0	0	0	4	2.6	0	0	0
23	0	0	0	0	0	0	0	5	2.3	0	0	0
24	0	0	0	0	0	0	0	5.7	2.1	0	0	0
25	0	0	0	0	0	0	0	6.5	1.9	0	0	0
26	0	0	0	0	0	0	0	7.3	1.8	0	0	0
27	0	0	0	0	0	0	0	8.9	1.8	0	0	0
28	0	0	0	0	0	0	0	11	1.6	0	0	0
29	0	0	0	0	---	0	0	12	1.5	0	0	0
30	0	0	0	0	---	0	0	12	1.4	0	0	0
31	0	---	0	0	---	0	---	12	---	0	0	---
TOTAL	0	0	0	0	0	0	0	88.15	160.5	8.28	0	0
MEAN	0	0	0	0	0	0	0	2.84	5.4	.27	0	0
AC-FT	0	0	0	0	0	0	0	175	318	16	0	0
MAX	0	0	0	0	0	0	0	12	18	1.3	0	0
MIN	0	0	0	0	0	0	0	0	1.4	0	0	0

CAL YR 2002 TOTAL 22.58 MEAN .062 MAX 1.2 MIN 0 AC-FT 45
WTR YR 2003 TOTAL 256.93 MEAN .7 MAX 18 MIN 0 AC-FT 510

MAX DISCH: 23.2 CFS AT 15:45 ON Jun. 1, 2003 GH 0.99 FT. SHIFT -0.01 FT.
MAX GH: 0.99 FT. AT 15:45 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

ARKANSAS RIVER BASIN

09063700 HOMESTAKE TUNNEL NEAR GOLD PARK, CO

LOCATION.--Lat 39°16'52", long 106°25'56"; Homestake tunnel diverts water from Homestake Lake, in sec. 17, T. 8 S., R. 81 W., in Eagle River basin, to Lake Fork Creek in Arkansas River basin.

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (Sutron 8004 DCP) and shaft encoder in a 4' x 4' wood shelter and concrete well. Primary record is satellite-monitored data with the graphic chart recorder used for backup purposes. Shaft encoder and chart are set to inside staff gage. A high-data rate DCP was installed on July 29, 2003. An electric tape gage was installed on Aug. 20, 2003. Control is a 12-foot concrete Parshall flume.

REMARKS.--Record is complete and reliable. Record good. Station maintained and records developed by L.R. Schultz.

RATING TABLE.--HOMTUNCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

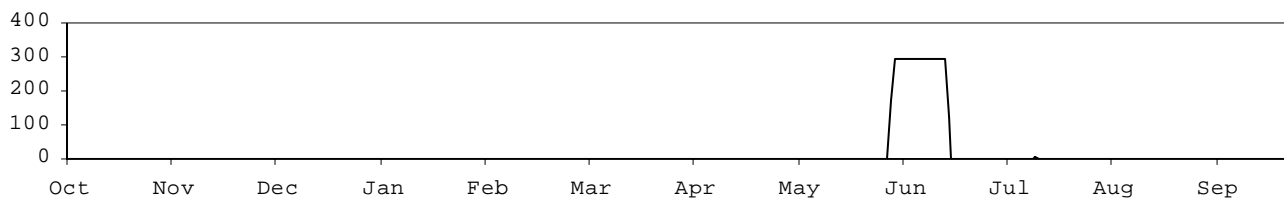
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	171	0	0	0
3	0	0	0	0	0	0	0	0	295	0	0	0
4	0	0	0	0	0	0	0	0	295	0	0	2.5
5	0	0	0	0	0	0	0	0	295	0	0	0
6	0	0	0	0	0	0	0	0	295	0	0	0
7	0	0	0	0	0	0	0	0	295	0	0	0
8	0	0	0	0	0	0	0	0	293	0	2	0
9	0	0	0	0	0	0	0	0	293	0	0	0
10	0	0	0	0	0	0	0	0	293	0	0	0
11	0	0	0	0	0	0	0	0	293	0	0	0
12	0	0	0	0	0	0	0	0	293	0	0	0
13	0	0	0	0	0	0	0	0	293	0	0	0
14	0	0	0	0	0	0	0	0	294	0	0	0
15	0	0	0	0	0	0	0	0	293	5.6	0	0
16	0	0	0	0	0	0	0	0	293	0	0	0
17	0	0	0	0	0	0	0	0	293	0	0	1.9
18	0	0	0	0	0	0	0	0	293	0	0	0
19	0	0	0	0	0	0	0	0	126	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	4996	5.6	2	4.4
MEAN	0	0	0	0	0	0	0	0	167	.18	.07	.15
AC-FT	0	0	0	0	0	0	0	0	9910	11	4	8.7
MAX	0	0	0	0	0	0	0	0	295	5.6	2	2.5
MIN	0	0	0	0	0	0	0	0	0	0	0	0

CAL YR 2002 TOTAL 10849 MEAN 29.7 MAX 257 MIN 0 AC-FT 21520
WTR YR 2003 TOTAL 5008 MEAN 13.7 MAX 295 MIN 0 AC-FT 9930

MAX DISCH: 296 CFS AT 11:00 ON Jun. 2, 2003 GH 3.11 FT. SHIFT 0.06 FT.
MAX GH: 3.11 FT. AT 11:00 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

ARKANSAS RIVER BASIN

09077160 BOUSTEAD TUNNEL AT EAST PORTAL NEAR LEADVILLE, CO

LOCATION.--Lat 39°16'40", long 106°25'40"; Charles H. Boustead Tunnel diverts water from the main stem and tributaries of Fryingpan River in Colorado River basin, to Lake Fork in sec. 10, T. 9 S., R. 81 W., in Arkansas River basin.

GAGE.--Graphic water-stage recorder with satellite-monitored data collection platform (Sutron 8210 high data rate DCP) and shaft encoder in a 5'x 5' concrete shelter. Primary record is DCP log file with satellite-monitored data and chart record serving as backup. Shaft encoder and chart are set to inside drop tape and RP with an outside staff gage in the flume used as a supplemental reference gage. An electric tape gage was installed on Aug. 20, 2003. Control is a 15-foot concrete Parshall flume.

REMARKS.--Record is complete and reliable except for the following periods: Aug. 4, 2003 through Sept. 30, 2003, when maintenance was being performed in the tunnel and a by-pass drain was used, resulting in this period becoming estimated days. Record fair. Additional measurements are needed at high flows to verify shift distribution. At medium flow, slick moss on the flume floor makes wading measurements extremely dangerous. Moderately high velocities and high flume walls compound this. Station maintained and records developed by L.R.Schultz.

RATING TABLE.--BOUTUNCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

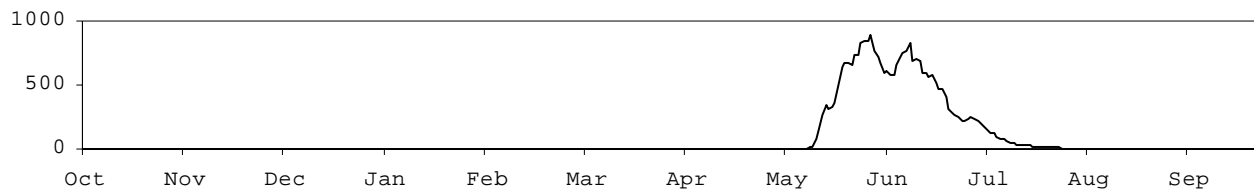
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.4	3.4	3.4	3.4	4.1	3.7	3.7	893	235	3.1	2.2
2	3.4	3.4	3.4	3.4	3.2	4.1	3.7	3.4	766	248	3.1	2.2
3	3.4	3.6	3.4	3.4	3.1	4.1	3.7	3.1	712	235	3.1	2.2
4	3.4	3.7	3.4	3.4	3.2	4.1	3.7	3.1	669	217	3.1	2.2
5	3.5	3.7	3.4	3.4	3.4	4.1	3.7	3.1	591	200	3.1	2.2
6	3.7	3.7	3.4	3.4	3.4	4.1	3.7	4.8	610	169	3.1	2.2
7	3.7	3.7	3.4	3.4	3.4	3.9	3.7	6.1	578	139	3.1	2.2
8	3.7	3.7	3.4	3.4	3.4	3.7	3.6	3.4	572	129	3.1	2.2
9	3.7	3.7	3.4	3.4	3.4	3.7	3.4	3.4	650	120	3.1	2.2
10	3.7	3.7	3.4	3.4	3.4	3.7	3.4	3.4	722	98	3.1	2.2
11	3.7	3.7	3.4	3.4	3.4	3.7	3.4	3.4	747	79	2.8	2.2
12	3.5	3.7	3.4	3.4	3.4	3.7	3.6	3.4	769	72	2.8	1.9
13	3.4	3.7	3.4	3.4	3.5	3.7	3.6	12	829	64	2.8	1.9
14	3.4	3.7	3.4	3.4	3.9	3.7	3.4	18	680	52	2.8	1.9
15	3.4	3.7	3.4	3.4	4	3.7	3.4	71	706	40	2.8	1.9
16	3.4	3.7	3.4	3.4	3.7	3.7	3.4	141	688	39	2.8	1.9
17	3.4	3.7	3.4	3.4	3.7	3.7	3.4	268	587	37	2.8	1.9
18	3.4	3.4	3.4	3.4	3.7	3.7	3.4	341	591	34	2.8	1.9
19	3.4	3.4	3.4	3.4	3.8	3.7	3.4	318	563	31	2.8	1.9
20	3.4	3.4	3.4	3.4	4.1	3.7	3.5	326	573	29	2.8	1.9
21	3.4	3.4	3.4	3.4	4.1	3.7	3.7	366	513	23	2.5	1.9
22	3.4	3.4	3.4	3.4	4.1	3.7	3.7	507	472	16	2.5	1.9
23	3.4	3.4	3.4	3.3	4.1	3.7	3.7	635	462	13	2.5	1.7
24	3.4	3.4	3.4	3.1	4.1	3.7	3.7	672	412	10	2.5	1.7
25	3.4	3.4	3.4	3.4	4.1	3.7	3.7	669	319	10	2.5	1.7
26	3.4	3.4	3.4	3.4	4.1	3.7	3.7	649	276	10	2.5	1.7
27	3.4	3.4	3.4	3.3	4.1	3.7	3.7	737	273	15	2.5	1.7
28	3.4	3.4	3.4	3.1	4.1	3.7	3.7	737	250	13	2.5	1.7
29	3.4	3.4	3.4	3.2	---	3.7	3.7	835	226	8.6	2.5	1.7
30	3.2	3.4	3.4	3.4	---	3.7	3.7	837	217	3.7	2.5	1.7
31	3.2	---	3.4	3.4	---	3.7	---	847	---	3.2	2.5	---
TOTAL	107.3	106.4	105.4	104.4	103.3	117.3	107.8	9030.3	16916	2392.5	86.5	58.7
MEAN	3.5	3.6	3.4	3.4	3.7	3.8	3.6	291	564	77.2	2.8	2
AC-FT	213	211	209	207	205	233	214	17910	33550	4750	172	116
MAX	3.7	3.7	3.4	3.4	4.1	4.1	3.7	847	893	248	3.1	2.2
MIN	3.2	3.4	3.4	3.1	3.1	3.7	3.4	3.1	217	3.2	2.5	1.7
CAL YR 2002	TOTAL	8063.7	MEAN	22.1	MAX	468	MIN	2.2	AC-FT	15990		
WTR YR 2003	TOTAL	29235.9	MEAN	80.1	MAX	893	MIN	1.7	AC-FT	57990		

MAX DISCH: 928 CFS AT 20:15 ON May. 29, 2003 GH 5.67 FT. SHIFT 0 FT.

MAX GH: 5.67 FT. AT 20:15 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

ARKANSAS RIVER BASIN

09077500 BUSK-IVANHOE TUNNEL AT EAST PORTAL NEAR MALTA, CO

LOCATION.--Lat 39°14'55", long 106°28'14"; Water diverted from Ivanhoe Lake, tributary to Fryingpan River in sec. 13, T. 9 S., R. 82 W., in Roaring Fork River basin, to Busk Creek (tributary to Lake Fork) in sec. 20, T. 9 S., R. 81 W., in Arkansas River basin.

GAGE.--Graphic water-stage recorder, satellite-monitored data collection platform (8004 DCP) and shaft encoder in a 3'x3' metal and wood shelter. Satellite monitored DCP is the primary source of stage data with chart record used for backup. A Sutron SatLink high data rate DCP was installed July 29, 2003. Shaft encoder and chart are set to outside staff gage in the flume. Control is an 8-foot steel Parshall flume.

REMARKS.--Record is complete and reliable. Record good. Station maintained and records developed by L.R.Schultz.

RATING TABLE.--BUSTUNCO02 USED FROM 01-OCT-2002 TO 02-OCT-2003

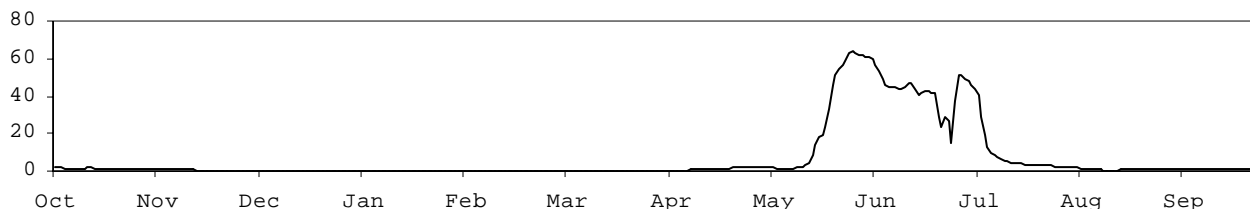
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.1	0	0	0	0	0	2	62	51	2.6	.67
2	1.7	1.1	0	0	0	0	0	1.9	62	51	2.5	.65
3	1.7	1.1	0	0	0	0	0	1.8	61	49	2.2	.55
4	1.5	1.1	0	0	0	0	0	1.8	61	48	2.1	.55
5	1.5	1.1	0	0	0	0	0	1.7	60	46	2	.55
6	1.4	1.1	0	0	0	0	0	1.7	57	44	1.8	.62
7	1.3	1.1	0	0	0	0	0	1.6	53	41	1.6	.79
8	1.2	1.1	0	0	0	0	0	1.5	49	29	1.5	.94
9	1.2	.89	0	0	0	0	0	1.5	46	19	1.4	1
10	1.4	.71	0	0	0	0	.38	1.5	45	13	1.3	1.3
11	1.8	.85	0	0	0	0	1.2	1.4	45	10	1.2	1.5
12	1.7	.94	0	0	0	0	1.3	1.4	45	8.2	1.2	1.5
13	1.5	.52	0	0	0	0	1.4	1.7	44	7.2	.82	1.6
14	1.3	0	0	0	0	0	1.4	1.8	44	6.4	.35	1.6
15	1.2	0	0	0	0	0	1.4	2.1	45	5.6	.35	1.5
16	1.2	0	0	0	0	0	1.4	3	47	5.1	.35	1.4
17	1.1	0	0	0	0	0	1.4	4.8	47	4.6	.35	1.3
18	.98	0	0	0	0	0	1.5	8.5	44	4.3	.35	1.2
19	.92	0	0	0	0	0	1.6	14	41	3.9	.64	1.1
20	.91	0	0	0	0	0	1.6	18	42	3.8	1.2	1
21	.79	0	0	0	0	0	1.5	19	43	3.6	1.1	.91
22	.79	0	0	0	0	0	1.5	23	43	3.4	.92	.79
23	.79	0	0	0	0	0	1.6	33	42	3.2	.92	.79
24	.79	0	0	0	0	0	1.7	46	42	3	.94	.77
25	.79	0	0	0	0	0	1.7	51	29	3	1	.69
26	.79	0	0	0	0	0	1.7	54	23	3	.91	.67
27	.91	0	0	0	0	0	1.7	57	29	3.1	.79	.67
28	.92	0	0	0	0	0	1.8	59	27	3.1	.79	.61
29	.97	0	0	0	---	0	1.7	63	15	2.8	.72	.58
30	1.1	0	0	0	---	0	1.9	64	37	2.6	.69	.55
31	1.1	---	0	0	---	0	---	63	---	2.4	.72	---
TOTAL	36.95	12.71	0	0	0	0	31.38	605.7	1330	483.3	35.31	28.35
MEAN	1.19	.42	0	0	0	0	1.05	19.5	44	15.6	1.14	.95
AC-FT	73	25	0	0	0	0	62	1200	2640	959	70	56
MAX	1.8	1.1	0	0	0	0	1.9	64	62	51	2.6	1.6
MIN	.79	0	0	0	0	0	0	1.4	15	2.4	.35	.55

CAL YR	2002	TOTAL	1379.49	MEAN	3.78	MAX	46	MIN	0	AC-FT	2740
WTR YR	2003	TOTAL	2563.7	MEAN	7.02	MAX	64	MIN	0	AC-FT	5090

MAX DISCH: 65.4 CFS AT 16:30 ON May. 29, 2003 GH 1.52 FT. SHIFT 0.04 FT.
MAX GH: 1.52 FT. AT 16:30 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

ARKANSAS RIVER BASIN

09073000 TWIN LAKES TUNNEL AT EAST PORTAL NEAR TWIN LAKES, CO

LOCATION.--Lat 39°04'56", long 106°32'24"; diverts water from tributaries of Roaring Fork River in Colorado River Basin to North Fork Lake Creek in sec. 22, T.11 S., R.82 W., in Arkansas River basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder, with 8210 DCP and shaft encoder in a 5' x 5' concrete shelter and well. Primary record is satellite-monitored data with the graphic chart recorder used for backup purposes. Shaft encoder and chart are set to outside staff gage. Control is a 12-foot concrete Parshall flume. An electric tape gage was installed on Apr. 24, 2003.

REMARKS.--Record is complete and reliable. Record good. Additional high flow measurements are needed to better define shifts to the rating at medium and higher stages. Measurements and stage recording at the flume would benefit considerably from flow straightening and energy dissipation baffles installed upstream of the flume entrance. Station maintained and records developed by L.R. Schultz.

RATING TABLE.--STD12FTPF USED FROM 01-OCT-2002 TO 28-OCT-2003

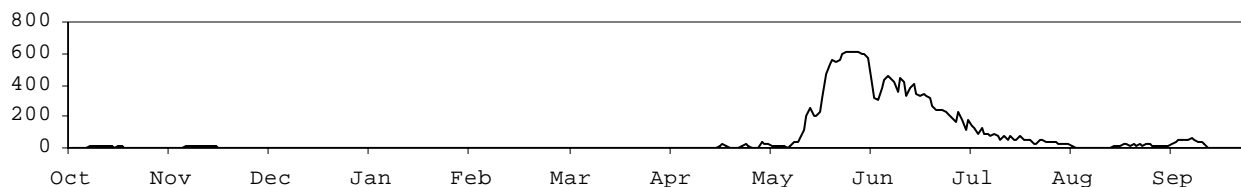
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	1.2	4.5	1.2	.39	.39	.36	.98	611	193	35	16
2	.28	1.2	4.5	1.2	.41	.39	.36	4.1	606	159	33	15
3	.4	1.2	4.5	1.2	.39	.41	.37	36	601	223	28	15
4	.39	1.2	4.3	1.3	.44	.44	.36	27	594	178	28	14
5	.4	1.3	4.2	1.4	.27	.44	.35	22	573	115	21	13
6	.4	7.2	4.2	1.4	.17	.44	.36	15	404	182	25	17
7	7.4	10	2.5	1.4	.17	.46	.36	13	321	135	16	31
8	10	10	.99	1.4	.17	.47	.34	13	311	123	.68	42
9	19	10	1	1.4	.17	.48	.33	13	385	87	.72	47
10	15	10	1	1.4	.17	.48	.31	9.9	431	126	.82	54
11	9.5	9.9	.99	1.5	.17	.5	.32	.87	458	88	.75	50
12	9.5	9.9	.99	1.6	.17	.48	.32	9.6	449	85	.44	47
13	9.2	9.5	1	1.6	.17	.45	.33	37	414	82	.27	62
14	9.1	9.5	1.1	1.6	.17	.45	.37	42	361	89	.27	45
15	6	9.1	1.1	1.6	.17	.4	.45	69	440	72	.27	41
16	8	5.3	1.2	1.6	.17	.39	.57	116	421	55	.27	37
17	8.1	.99	1.2	1.6	.21	.39	.66	202	334	77	.26	26
18	5.1	1	1.2	1.6	.22	.34	2.8	255	377	51	.23	5.6
19	.82	1	1.1	1.6	.27	.32	4.2	203	407	74	.18	.12
20	.82	.99	1	1.6	.26	.36	11	207	345	51	9.5	.1
21	.82	1.1	.99	1.8	.27	.39	30	232	332	46	15	.11
22	.82	1.2	.99	1.8	.24	.39	16	321	343	74	16	.1
23	.84	2.8	1	1.8	.22	.36	1.8	467	335	54	22	.1
24	.99	4.5	1	1.8	.27	.35	.75	537	317	51	21	.09
25	.99	4.5	.99	1.8	.32	.34	.82	557	264	50	19	.1
26	.99	4.5	1	1.8	.37	.34	.82	545	237	24	20	.09
27	1	4.5	.99	1.5	.39	.27	9.3	560	244	21	8	.09
28	1	4.4	1	1.1	.39	.32	30	598	235	50	25	.09
29	.99	4.5	1.1	1	---	.32	9	612	230	54	15	.09
30	1	4.5	1.2	.77	---	.32	.82	612	220	44	27	.09
31	1.2	---	1.2	.39	---	.37	---	611	---	38	21	---
TOTAL	130.32	146.98	54.03	44.76	7.2	12.25	123.83	6947.45	11600	2751	409.66	578.77
MEAN	4.2	4.9	1.74	1.44	.26	.4	4.13	224	387	89	13.2	19.3
AC-FT	258	292	107	89	14	24	246	13780	23010	5460	813	1150
MAX	19	10	4.5	1.8	.44	.5	30	612	611	223	35	62
MIN	.27	.99	.99	.39	.17	.27	.31	.87	220	21	.18	.09

CAL YR 2002 TOTAL 10202.51 MEAN 28 MAX 419 MIN .23 AC-FT 20240
WTR YR 2003 TOTAL 22806.25 MEAN 62.5 MAX 612 MIN .09 AC-FT 45240

MAX DISCH: 620 CFS AT 19:45 ON May. 29, 2003 GH 5.03 FT. SHIFT 0 FT.
MAX GH: 5.03 FT. AT 19:45 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

ARKANSAS RIVER BASIN

09115000 LARKSPUR DITCH NEAR MARSHALL PASS, CO

LOCATION.--Lat 38°23'00", long 106°15'00", diverts water from tributaries of Tomichi Creek between headgates (in sec. 11, T.48 N., R.6 E., and sec. 1, T.47 N., R.6 E.), and Marshall Pass, in Gunnison River basin, to Poncha Creek (tributary to South Arkansas River) in SE¼ sec. 24, T.48 N., R.6 E., in Arkansas River basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder (F-type), satellite-monitored data collection platform (8004 DCP) and shaft encoder in a 30"x 24" metal shelter and well. Primary record is satellite-monitored data with the chart recorder used for backup purposes. Shaft encoder and chart are set to outside staff gage. Control is a 2-foot steel Parshall flume, installed early in the 2002 Water Year. A new shelter was constructed in July of 2003.

REMARKS.--Due to the severe drought, the ditch was out of priority for the entire water year, and therefore, no water was taken. Station maintained and record developed by L.R. Schultz.

RATING TABLE.--STD02FTP F USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CAL YR 2002	TOTAL		0	MEAN		0	MAX		0	AC-FT		0
WTR YR 2003	TOTAL		0	MEAN		0	MAX		0	AC-FT		0

MAX DISCH: 0 CFS
MAX GH: 0.00 FT.

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

RIO GRANDE BASIN

08213500 RIO GRANDE AT THIRTYMILE BRIDGE, NEAR CREEDE, CO

LOCATION.--Lat 37°43'30", long 107°15'18", in NE¼ sec. 13, T.40 N., R.4 W., Hinsdale County, Hydrologic Unit 13010001, on right bank 70 ft downstream from bridge, 500 ft upstream from Squaw Creek, 0.7 mi downstream from Rio Grande Reservoir, and 20 mi southwest of Creede.

DRAINAGE AREA AND PERIOD OF RECORD.--163 mi². June 1909 to Sep. 1923, May 1925 to current year. No winter records 1910, 1926. Monthly data only for some periods.

GAGE.--Water-stage recorder with satellite telemetry in a timber shelter and metal well. Elevation of gage is 9,300 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except for Nov. 5, 2002 to Mar 17, 2003 when the station was closed for the winter; Oct. 31, Nov. 1-4, 2002 when the station was isolated for periods during the day; and Mar. 18-20, 28-31, 2003 when the well and/or the inlets were frozen. Record good except for periods of no gage-height record, which are fair to poor. Station maintained and record developed by Div. III Hydrographic Staff.

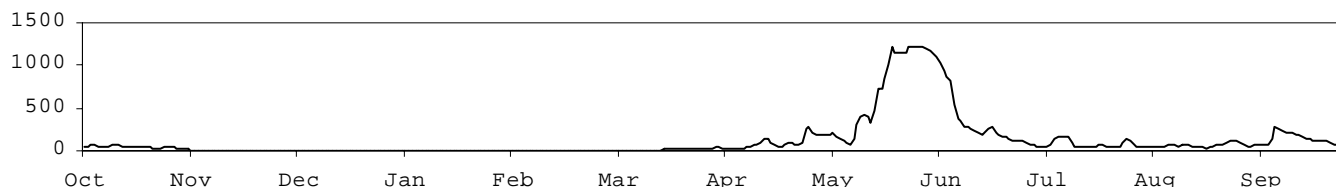
RATING TABLE.--RIOMILCO12 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	3.9	4.1	4.4	4.7	4.9	30	190	1220	87	71	98
2	48	3.9	4.1	4.4	4.7	5	39	185	1190	80	57	65
3	81	3.9	4.1	4.4	4.7	5	37	185	1170	70	54	57
4	74	3.9	4.2	4.4	4.7	5	32	188	1140	57	47	57
5	50	3.9	4.2	4.4	4.7	5	29	199	1110	46	43	59
6	44	3.9	4.2	4.5	4.7	5	29	201	1040	42	45	62
7	45	3.9	4.2	4.5	4.7	5	29	154	942	43	46	64
8	54	3.9	4.2	4.5	4.8	5	29	133	868	76	51	74
9	61	3.9	4.2	4.5	4.8	5	29	126	814	129	56	79
10	68	3.9	4.2	4.5	4.8	5	29	87	542	156	57	139
11	64	3.9	4.2	4.5	4.8	5	36	71	385	160	69	284
12	46	4	4.2	4.5	4.8	5	56	134	344	160	69	262
13	39	4	4.2	4.5	4.8	5.1	63	305	290	159	59	234
14	39	4	4.2	4.5	4.8	5.1	70	405	271	98	54	219
15	39	4	4.3	4.5	4.8	5.1	101	429	259	53	62	218
16	39	4	4.3	4.5	4.8	5.1	144	396	230	46	68	206
17	39	4	4.3	4.6	4.8	5.1	132	332	205	46	64	199
18	39	4	4.3	4.6	4.8	23	86	477	195	46	56	197
19	39	4	4.3	4.6	4.9	35	62	719	203	46	49	174
20	39	4	4.3	4.6	4.9	35	46	726	252	46	43	143
21	35	4	4.3	4.6	4.9	34	44	833	273	52	36	132
22	30	4	4.3	4.6	4.9	26	60	1000	219	65	33	116
23	33	4.1	4.3	4.6	4.9	17	94	1230	193	66	44	109
24	46	4.1	4.3	4.6	4.9	12	87	1160	172	58	54	110
25	51	4.1	4.3	4.6	4.9	12	73	1150	160	56	71	109
26	46	4.1	4.4	4.6	4.9	12	69	1160	147	49	78	109
27	38	4.1	4.4	4.6	4.9	12	105	1160	125	45	78	91
28	30	4.1	4.4	4.7	4.9	14	265	1210	120	56	89	77
29	27	4.1	4.4	4.7	---	16	274	1220	120	99	109	77
30	22	4.1	4.4	4.7	---	16	215	1230	107	133	124	77
31	17	---	4.4	4.7	---	19	---	1230	---	108	124	---
TOTAL	1378	119.7	132.2	140.9	134.7	368.4	2394	18225	14306	2433	1960	3897
MEAN	45	4	4.3	4.6	4.8	11.9	80	588	477	79	63	130
AC-FT	2730	237	262	279	267	731	4750	36150	28380	4830	3890	7730
MAX	81	4.1	4.4	4.7	4.9	35	274	1230	1220	160	124	284
MIN	17	3.9	4.1	4.4	4.7	4.9	29	71	107	42	33	57
CAL YR 2002	TOTAL	14917.2	MEAN	40.9	MAX	258	MIN	2.6	AC-FT	29590		
WTR YR 2003	TOTAL	45488.9	MEAN	125	MAX	1230	MIN	3.9	AC-FT	90230		

MAX DISCH: 1870 CFS AT 11:00 ON May. 23, 2003 GH 4.17 FT. SHIFT 0.05 FT.
MAX GH: 4.17 FT. AT 11:00 ON May. 23, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08214500 NORTH CLEAR CREEK BELOW CONTINENTAL RESERVOIR, CO

LOCATION.--Lat 37°53'18", long 107°12'10", in NE¼SE¼ sec. 21, T.42 N., R.3 W., Hinsdale County, Hydrologic Unit 13010001, on left bank 100 ft downstream from bridge, 1,000 ft downstream from Continental Reservoir, and 15 mi west of Creede.

DRAINAGE AREA.--51.7 mi².

GAGE.--Graphic water-stage recorder and a Sutron satellite monitoring system in a 4 ft. by 4 ft. timber shelter and concrete well at a concrete ramp flume. Elevation of gage is 10,200 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except for Nov. 5, 2002 through April 3, 2003 when the station was closed for the winter. Gage-height was not representative of the flow April 10-30, May 1-6, 2003, when water was flowing through a pipe under the ramp flume. Record is good except for periods of no gage-height record which is fair. Station maintained and record developed by Div. III Hydrographic staff.

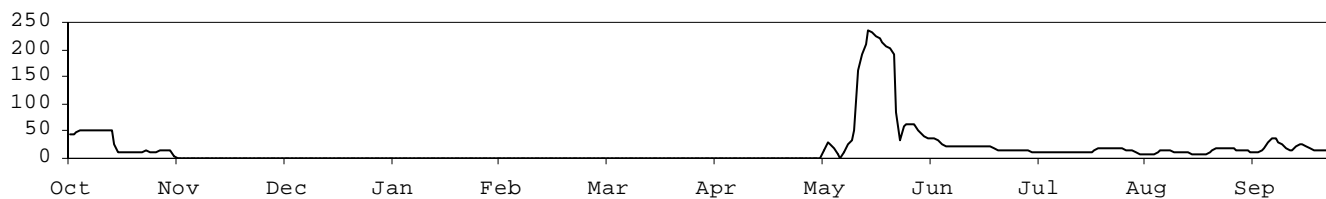
RATING TABLE.--NCLCONCO21 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	.15	.14	.15	.16	.17	.17	.17	63	13	14	17
2	45	.15	.14	.15	.16	.17	.17	.17	53	13	13	15
3	48	.13	.14	.15	.16	.17	.17	.17	47	13	13	15
4	51	.13	.14	.15	.16	.17	.17	.17	41	13	9.4	14
5	50	.14	.14	.15	.16	.17	.17	.17	37	11	7.2	14
6	50	.14	.14	.15	.16	.17	.17	16	37	9.5	7.1	12
7	51	.14	.14	.15	.16	.17	.17	29	35	9.2	6.9	10
8	50	.14	.14	.15	.16	.17	.17	24	32	9.2	6.8	12
9	50	.14	.14	.15	.16	.17	.17	18	27	9.2	6.9	13
10	50	.14	.14	.15	.16	.17	.17	7.4	23	9.5	11	19
11	51	.14	.14	.15	.16	.17	.17	.12	23	9.2	14	31
12	51	.14	.14	.15	.16	.17	.17	10	23	9.5	14	36
13	51	.14	.15	.15	.16	.17	.17	27	22	9.8	14	36
14	27	.14	.15	.15	.16	.17	.17	34	22	9.8	13	29
15	9.2	.14	.15	.15	.16	.17	.17	53	22	9.8	11	24
16	9.2	.14	.15	.15	.16	.17	.17	163	22	9.8	11	20
17	11	.14	.15	.15	.16	.17	.17	192	22	9.4	11	16
18	12	.14	.15	.15	.16	.17	.17	209	22	9.2	11	16
19	11	.14	.15	.15	.16	.17	.17	234	22	9.2	11	21
20	12	.14	.15	.16	.16	.17	.17	233	22	9.4	8.4	24
21	12	.14	.15	.16	.16	.17	.17	226	22	9.7	6.7	24
22	12	.14	.15	.16	.16	.17	.17	220	22	9.7	6.6	22
23	13	.14	.15	.16	.16	.17	.17	213	22	14	6.4	17
24	12	.14	.15	.16	.16	.17	.17	207	20	18	6.6	15
25	12	.14	.15	.16	.16	.17	.17	201	16	17	10	15
26	11	.14	.15	.16	.16	.17	.17	191	13	18	16	15
27	14	.14	.15	.16	.17	.17	.17	86	13	18	19	15
28	15	.14	.15	.16	.17	.17	.17	32	13	18	19	13
29	15	.14	.15	.16	---	.17	.17	58	13	17	20	12
30	14	.14	.15	.16	---	.17	.17	63	13	17	19	11
31	2.4	---	.15	.16	---	.17	---	63	---	17	19	---
TOTAL	866.8	4.2	4.53	4.77	4.5	5.27	5.1	2810.37	784	378.1	362	553
MEAN	28	.14	.15	.15	.16	.17	.17	90.7	26	12.2	11.7	18
AC-FT	1720	8.3	9	9.5	8.9	10	10	5570	1560	750	718	1100
MAX	51	.15	.15	.16	.17	.17	.17	234	63	18	20	36
MIN	2.4	.13	.14	.15	.16	.17	.17	.12	13	9.2	6.4	10
CAL YR 2002	TOTAL	3622.84	MEAN	9.93	MAX	58	MIN	.13	AC-FT	7190		
WTR YR 2003	TOTAL	5782.64	MEAN	15.8	MAX	234	MIN	.12	AC-FT	11470		

MAX DISCH: 244 CFS AT 09:45 ON May. 19, 2003 GH 2.81 FT. SHIFT 0.48 FT.
MAX GH: 2.81 FT. AT 09:45 ON May. 19, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08217500 RIO GRANDE RIVER at WAGONWHEEL GAP, CO.

LOCATION.--Lat 37°46'01", long 106°49'51", in NW1/4 NE1/4 sec. 35, T. 41N, R. 1E., Mineral County, Hydrologic unit 13010001, on left bank 40 ft. downstream from private bridge, 0.3 mi. upstream from Goose Creek, and 0.3 mi. west of town of Wagonwheel Gap.

DRAINAGE AREA.--780 mi².

GAGE.--Graphic water-stage recorder and Sutron satellite monitoring system in 4 ft. by 4 ft. timber shelter and 4 ft. diameter concrete well. Altitude of gage 8,430 ft. from topographic map. A cableway is located approximately 350 ft. upstream of the gage.

REMARKS.--Record is complete and reliable except for December 5, 2002 through March 20, 2003 when the station was closed for the winter. Stage-discharge relation was affected by ice November 13-30, Dec. 1-4, 2002. Record is good except for periods of ice affected and no gage height record, which should be considered poor. Station maintained and record developed by Div. III Hydrographic Staff.

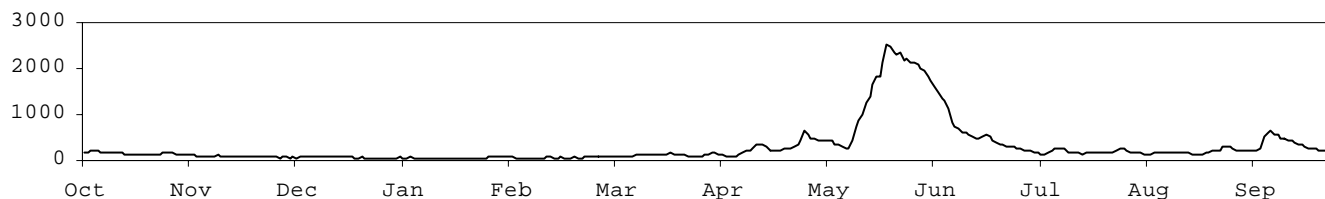
RATING TABLE.--RIOWAGCO04 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	119	70	66	74	70	126	486	2080	257	217	279
2	183	109	60	58	74	70	164	457	2020	234	182	232
3	211	89	78	62	66	76	153	448	1950	225	171	202
4	238	90	72	66	60	82	137	449	1830	204	160	203
5	215	88	68	64	52	82	125	426	1740	185	154	203
6	191	80	68	64	46	78	108	439	1620	162	142	206
7	183	85	66	56	42	86	99	417	1470	150	142	218
8	181	96	68	58	44	92	88	356	1330	147	149	208
9	177	109	68	62	46	96	108	334	1290	179	159	249
10	170	97	66	62	46	98	133	303	1150	236	159	521
11	175	79	70	60	48	110	163	252	842	257	163	587
12	166	67	72	52	56	120	213	268	756	263	185	672
13	151	72	72	54	68	140	238	449	692	263	186	578
14	146	78	70	58	66	140	274	723	613	261	169	544
15	148	70	74	62	64	150	366	890	587	188	158	483
16	146	66	74	60	64	150	344	981	560	159	166	478
17	145	72	72	56	70	140	359	1270	524	169	177	421
18	146	74	68	52	64	130	302	1390	487	154	177	420
19	147	70	64	54	60	140	238	1670	481	145	170	399
20	145	74	64	54	62	145	203	1810	521	158	152	357
21	144	74	68	56	66	160	197	1830	558	172	138	327
22	140	72	62	58	62	135	227	2140	522	163	134	312
23	146	76	64	62	60	146	247	2520	443	173	133	279
24	153	76	60	62	66	141	265	2470	413	182	163	266
25	160	76	56	60	76	123	274	2340	367	170	175	247
26	165	66	54	56	72	107	313	2310	352	169	216	239
27	164	62	56	68	68	105	355	2340	326	181	227	235
28	142	66	58	66	76	78	456	2160	297	186	238	215
29	136	66	64	66	---	77	635	2230	292	199	320	204
30	117	64	64	68	---	95	561	2140	279	254	317	199
31	129	---	64	70	---	110	---	2130	---	260	308	---
TOTAL	5030	2382	2054	1872	1718	3472	7471	38428	26392	6105	5707	9983
MEAN	162	79	66	60	61	112	249	1240	880	197	184	333
AC-FT	9980	4720	4070	3710	3410	6890	14820	76220	52350	12110	11320	19800
MAX	238	119	78	70	76	160	635	2520	2080	263	320	672
MIN	117	62	54	52	42	70	88	252	279	145	133	199
CAL YR 2002	TOTAL	54666	MEAN	150	MAX	490	MIN	54	AC-FT	108400		
WTR YR 2003	TOTAL	110614	MEAN	303	MAX	2520	MIN	42	AC-FT	219400		

MAX DISCH: 2810 CFS AT 19:30 ON May. 23, 2003 GH 4.16 FT. SHIFT 0 FT.
MAX GH: 4.16 FT. AT 19:30 ON May. 23, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08218500 GOOSE CREEK AT WAGONWHEEL GAP, CO

LOCATION.--Lat 37°45'07", long 106°49'46", in SW¼SE¼ sec. 35, T.41 N., R.1 E., Mineral County, Hydrologic Unit 13010001, on left bank 0.2 mi downstream from Pierce Creek, 1.0 mi upstream from mouth, 1.0 mi south of Wagonwheel Gap, and 8.8 mi southeast of Creede.

DRAINAGE AREA.--90 mi².

GAGE.--Graphic water-stage recorder in 36 inch corrugated pipe shelter and smooth steel pipe well. Supplemental outside cantilever chain gage. A Sutron shaft encoder and data logger with satellite transmitter was installed Sep. 26, 2003. Elevation of gage is 8,460 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except for the following periods: Dec. 5, 2002 through Mar. 25, 2003 when station was closed for the winter; Nov. 12, 15, 2002, Apr. 11-14, 29-30, May 1-9, Jun. 9-20, Jul. 7-9, Aug. 14-20, 25-31, Sep. 1-4, 11-26, 2003 when clock stopped; Nov. 16 - Dec. 4, 2002 when clock stopped and float sank; and Apr. 8, 2003 when the well was frozen. Stage-discharge relation was affected by ice Nov. 11, 2002. Record is good except for periods of no gage height, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

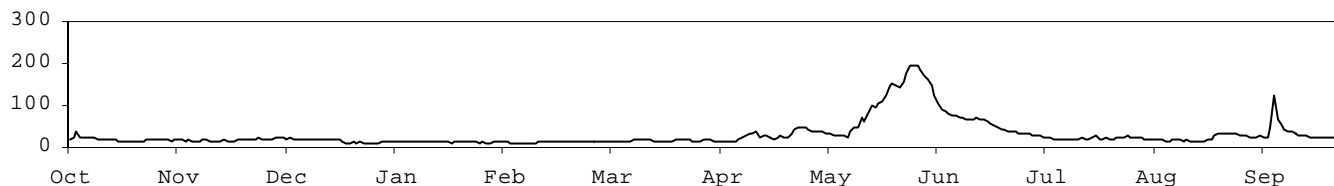
RATING TABLE.--GOOWAGCO09 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	19	23	14	14	13	18	38	187	31	23	28
2	23	19	21	13	14	13	17	36	172	31	23	27
3	37	14	22	14	12	14	14	36	160	30	22	26
4	25	17	20	16	11	15	15	36	146	29	18	26
5	24	13	19	16	10	14	14	34	125	28	19	26
6	23	14	17	15	9.2	14	13	32	106	26	17	28
7	23	15	17	13	8.4	15	12	30	90	24	17	26
8	22	18	18	13	9	16	14	29	85	22	18	23
9	21	19	17	14	9.6	16	16	28	82	21	17	47
10	20	14	17	15	10	16	20	28	78	20	16	123
11	20	12	18	15	11	17	24	26	74	20	16	68
12	18	12	19	12	13	17	28	36	72	20	19	54
13	18	16	19	12	15	17	31	46	70	20	18	44
14	17	18	18	13	15	17	34	49	68	19	17	40
15	16	15	20	14	14	17	40	72	68	20	16	36
16	16	13	19	13	14	17	26	63	66	21	17	33
17	16	16	18	12	15	16	29	81	70	23	16	30
18	16	18	13	11	14	14	28	99	66	20	16	28
19	16	18	11	12	12	15	25	97	66	20	15	27
20	16	20	11	12	12	15	21	103	64	25	15	26
21	16	20	12	12	13	15	25	110	58	30	15	25
22	16	20	11	12	13	16	28	125	52	21	18	24
23	20	21	12	13	13	17	23	149	48	21	18	24
24	20	22	11	13	15	17	22	152	44	22	28	23
25	18	21	10	12	15	17	31	146	43	20	35	23
26	20	18	10	11	14	17	43	144	39	20	34	23
27	20	18	11	12	14	17	46	157	37	26	33	22
28	19	20	11	11	14	14	46	178	37	26	35	22
29	20	23	13	11	---	14	46	193	35	23	33	21
30	16	23	12	12	---	16	42	193	34	30	32	20
31	20	---	13	13	---	17	---	193	---	22	30	---
TOTAL	610	526	483	401	353.2	485	791	2739	2342	731	666	993
MEAN	20	18	16	13	12.6	16	26	88	78	24	22	33
AC-FT	1210	1040	958	795	701	962	1570	5430	4650	1450	1320	1970
MAX	37	23	23	16	15	17	46	193	187	31	35	123
MIN	16	12	10	11	8.4	13	12	26	34	19	15	20
CAL YR 2002	TOTAL	6354.4	MEAN	17.4	MAX	49	MIN	6.8	AC-FT	12600		
WTR YR 2003	TOTAL	11120.2	MEAN	30.5	MAX	193	MIN	8.4	AC-FT	22060		

MAX DISCH: 228 CFS AT 23:00 ON May. 30, 2003 GH 3.33 FT. SHIFT -0.02 FT.
MAX GH: 3.33 FT. AT 23:00 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08219500 SOUTH FORK RIO GRANDE AT SOUTH FORK, CO

LOCATION.--Lat 37°39'25", long 106°38'55", in SW¼SE¼ sec. 3, T.39 N., R.3 E., Rio Grande County, Hydrologic Unit 13010001, on left bank near U.S. Highway 160, 0.1 mile downstream from Church Creek, 0.9 mi southwest of village of South Fork, and 1.5 mi upstream from mouth.

DRAINAGE AREA AND PERIOD OF RECORD.--216 mi². Station established May 17, 1909 at different site with minimal records. Non-recording to 1910 when water-stage recorder installed. Moved to current site in May 1936.

GAGE.--Graphic water-stage recorder and Sutron satellite monitoring system with an air temperature sensor in a timber shelter and corrugated metal pipe well. Datum of gage is 8,221.79 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except for March 29, and April 8, 2003 when the well was frozen, and December 5, 2002 through March 20, 2003 when the station was closed for the winter, and August 25, 2003 when the inlet was plugged. Stage-discharge relation was affected by ice Nov. 10 through Dec. 4, 2002. Several flash floods occurred in August and September, caused mainly by the effects of the Million Fire last year. A tremendous amount of silt flowed down the river during these flash floods, filling our gage for a period of time. Record is good except for periods of no gage-height record and ice effect, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--RIOSFKCO10 USED FROM 01-OCT-2002 TO 30-SEP-2003

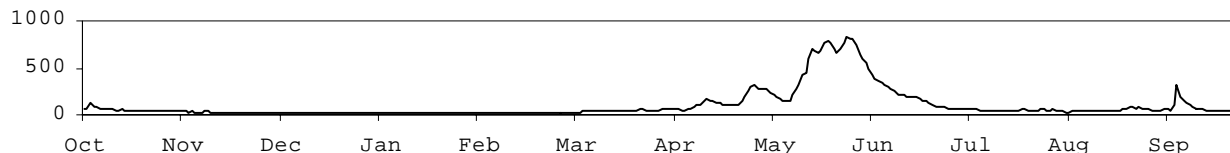
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	40	26	21	26	27	58	278	739	73	47	56
2	74	34	23	19	26	27	73	270	648	72	63	48
3	120	29	25	21	22	28	65	277	598	66	46	42
4	88	32	21	23	20	30	60	278	545	61	39	43
5	78	27	20	23	17	29	58	233	496	58	34	50
6	71	27	19	22	15	29	55	204	427	56	28	62
7	68	30	19	19	13	32	52	183	386	56	30	61
8	64	33	20	19	15	33	46	174	355	57	33	53
9	61	33	19	21	17	35	55	154	343	55	37	97
10	56	26	18	22	18	36	71	143	317	51	37	325
11	52	23	19	22	21	38	93	145	296	47	40	192
12	52	22	21	18	25	38	106	203	271	47	40	139
13	54	27	21	19	29	39	109	281	251	47	43	121
14	46	28	20	21	29	39	143	317	220	44	36	106
15	42	25	23	23	27	40	177	428	206	42	35	88
16	40	21	23	21	27	39	144	443	215	44	34	67
17	38	27	23	20	30	37	142	590	197	50	32	62
18	38	29	18	19	28	35	133	703	194	48	35	55
19	36	28	16	20	26	37	118	685	199	47	39	51
20	36	30	16	20	27	37	97	669	196	52	36	48
21	35	30	18	21	29	37	101	686	174	50	33	47
22	34	28	16	21	28	38	107	759	158	47	37	45
23	37	30	18	23	28	43	102	779	145	55	50	43
24	39	30	16	24	30	51	96	759	123	56	54	42
25	36	28	15	23	30	55	114	706	107	49	63	40
26	38	23	14	21	29	55	151	650	93	46	78	38
27	43	23	17	23	28	52	197	699	87	48	76	49
28	39	24	18	22	29	48	256	765	82	51	72	59
29	45	27	20	21	---	39	295	826	77	57	78	44
30	41	26	19	23	---	45	315	819	74	56	71	44
31	48	---	19	24	---	47	---	819	---	49	68	---
TOTAL	1610	840	600	659	689	1195	3589	14925	8219	1637	1444	2217
MEAN	52	28	19	21	25	39	120	481	274	53	47	74
AC-FT	3190	1670	1190	1310	1370	2370	7120	29600	16300	3250	2860	4400
MAX	120	40	26	24	30	55	315	826	739	73	78	325
MIN	34	21	14	18	13	27	46	143	74	42	28	38

CAL YR	2002	TOTAL	18153	MEAN	49.7	MAX	194	MIN	13	AC-FT	36010
WTR YR	2003	TOTAL	37624	MEAN	103	MAX	826	MIN	13	AC-FT	74630

MAX DISCH: 916 CFS AT 23:00 ON May. 30, 2003 GH 4.13 FT. SHIFT -0.02 FT.
MAX GH: 4.13 FT. AT 23:00 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08220000 RIO GRANDE RIVER NEAR DEL NORTE, CO

LOCATION.--Lat 37°41'22", long 106°27'38", in NW¼ sec. 29, T.40 N., R.5 E., Rio Grande County, Hydrologic Unit 13010001, on right bank 20 ft downstream from county highway bridge, 6.0 mi west of Del Norte, and 5 mi upstream from Pinos Creek.

DRAINAGE AREA AND PERIOD OF RECORD.--1,320 mi². Measurements and staff gages with frequent readings begun in June of 1889. Various sites used until present site established in Nov. 1910, with a recorder installed in 1934. All missing periods have been estimated and discharge records are complete from July 1, 1889.

GAGE.--Graphic water-stage recorder and a Sutron satellite monitoring system in a 6 ft. by 6 ft. exposed aggregate concrete shelter and 4 ft. diameter concrete well. The satellite monitoring system collects gage height, air temperature, and water temperature data, and also has a modem system to provide gage heights via a dial-in option. The new gage and well were installed November 8, 2002. Datum of gage is 7,980.25 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable. Stage-discharge relation affected by ice Nov. 27-30, Dec. 1-4, 2002; and Dec. 6, 2002 through Mar. 6, 2003. Record is good except for periods of ice affected record, which should be considered fair to poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--RIODELCO03 USED FROM 01-OCT-2002 TO 30-SEP-2003

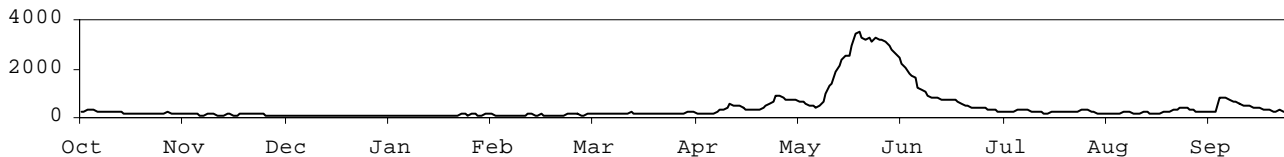
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	166	114	110	130	110	178	799	3080	368	289	345
2	263	176	110	100	130	120	221	748	2920	345	257	295
3	321	159	110	110	120	130	233	742	2790	313	224	258
4	314	149	105	110	110	140	210	755	2590	287	204	267
5	293	145	101	110	100	130	202	696	2420	263	195	267
6	257	120	95	100	100	130	185	663	2220	241	178	272
7	249	110	90	100	90	134	169	630	2020	222	175	279
8	249	128	95	100	90	138	152	571	1790	217	181	259
9	250	145	95	110	100	146	166	516	1720	211	193	274
10	229	145	95	110	100	151	198	473	1630	252	195	822
11	226	110	100	100	110	159	259	435	1260	286	199	849
12	222	88	100	100	110	173	305	465	1110	299	206	824
13	216	109	100	100	130	184	330	686	1030	302	223	741
14	198	146	100	110	130	192	396	958	925	304	205	687
15	190	135	100	110	120	199	531	1270	855	271	190	617
16	192	90	110	110	120	205	510	1350	845	215	191	564
17	187	116	110	100	130	185	502	1840	795	205	202	517
18	189	131	100	100	120	153	468	2090	743	205	207	482
19	195	124	100	110	110	143	388	2360	735	185	207	470
20	192	124	90	110	110	148	318	2570	754	201	195	430
21	187	138	100	120	120	201	308	2550	762	218	172	392
22	185	129	95	120	120	194	351	2970	717	216	171	368
23	187	130	100	120	110	187	358	3430	638	211	185	340
24	195	129	95	130	120	195	344	3480	571	235	218	311
25	196	138	90	130	130	190	384	3250	518	220	228	294
26	199	117	90	120	130	186	458	3150	473	211	283	277
27	218	92	90	130	130	176	567	3270	437	227	321	279
28	185	92	95	130	130	157	691	3120	397	241	323	287
29	165	108	100	120	---	132	897	3260	376	251	401	251
30	154	114	100	120	---	142	910	3180	371	301	401	238
31	154	---	100	130	---	163	---	3190	---	305	386	---
TOTAL	6673	3803	3075	3480	3250	4993	11189	55467	37492	7828	7205	12556
MEAN	215	127	99	112	116	161	373	1789	1250	253	232	419
AC-FT	13240	7540	6100	6900	6450	9900	22190	110000	74370	15530	14290	24900
MAX	321	176	114	130	130	205	910	3480	3080	368	401	849
MIN	154	88	90	100	90	110	152	435	371	185	171	238

CAL YR 2002 TOTAL 77719 MEAN 213 MAX 671 MIN 88 AC-FT 154200
WTR YR 2003 TOTAL 157011 MEAN 430 MAX 3480 MIN 88 AC-FT 311400

MAX DISCH: 3780 CFS AT 23:45 ON May. 23, 2003 GH 3.77 FT. SHIFT 0.01 FT.
MAX GH: 3.77 FT. AT 23:45 ON May. 23, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08220500 PINOS CREEK NEAR DEL NORTE, CO

LOCATION.--Lat 37°35'30", long 106°27'05", in SW¼SE¼ sec. 29, T.39 N., R.5 E., Rio Grande County, Hydrologic Unit 13010002, on left bank 90 ft. downstream from Bennett Creek and 8.0 mi. southwest of Del Norte, Co.

DRAINAGE AREA.--53 mi².

GAGE.--Graphic water-stage recorder in a 3 ft. by 3 ft. timber shelter and concrete well at a 12 ft. rectangular concrete box control. Sutron satellite monitoring system. Altitude of gage is 8,480 ft. from topographic map.

REMARKS.--Record is complete and reliable except for Nov. 26 through Dec. 4, 2002 when the stilling well was frozen; and Dec. 5, 2002 through March 25, 2003 when the station was closed for the winter. Stage-discharge relation was affected by ice Oct. 30, Nov. 3 - 8, 10 - 25, 2002, and Apr. 8, 2003. Record is good except for periods of no gage-height and ice affected record, which are poor. Station maintained and record developed by Div. III Staff.

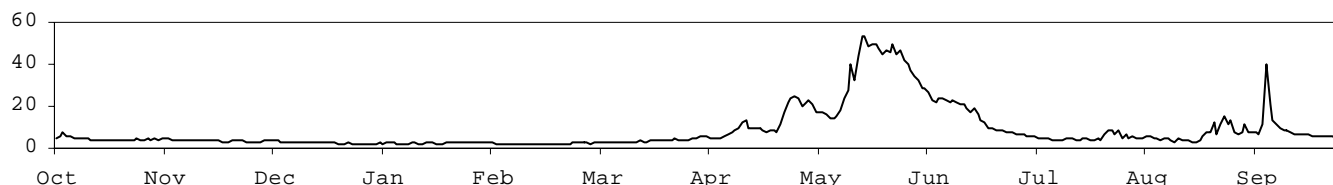
RATING TABLE.--PINDELCO14 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.3	3.6	2.4	2.5	2.4	5.1	20	37	7	6.3	7.9
2	6	4.3	3.5	2.2	2.6	2.3	5.6	22	34	6.6	5.2	6.3
3	7.8	3.6	3.5	2.4	2.3	2.5	5.3	23	32	6.2	5.8	7.7
4	5.7	3.6	3.2	2.4	2	2.8	5.3	21	29	5.8	4.5	11
5	5.5	3.5	2.9	2.4	1.8	2.7	4.9	17	29	5.6	4.4	7.9
6	4.9	3.4	2.7	2.3	1.6	2.6	4.8	17	27	5.5	4.5	7.7
7	4.8	3.7	2.5	2.2	1.5	2.7	4.3	17	23	5.2	5.3	7.3
8	4.6	3.9	2.7	2.3	1.6	2.8	5.2	16	22	4.8	5.4	6.4
9	4.5	4.2	2.7	2.2	1.7	2.7	5.6	14	24	4.5	5.2	11
10	4.4	4	2.7	2.5	1.7	2.9	6.7	14	24	4.3	4.7	40
11	3.8	3.8	2.9	2.4	2	2.9	7.9	15	23	4.1	4	21
12	3.8	3.6	3	2.3	2	3.1	8.1	18	22	4.2	4.7	13
13	3.8	3.6	3	2.3	2.3	3.2	9.2	24	23	4.1	4.3	11
14	3.8	3.8	3	2.4	2.3	3.1	12	28	22	4	3.5	9.8
15	3.8	3.8	3.1	2.5	2.3	3.1	13	40	21	4.3	3.3	8.8
16	3.7	3.6	3.3	2.4	2.2	3.5	10	32	21	4.5	4.3	8.2
17	3.6	3.2	3.3	2.3	2.3	3.3	10	44	19	4.6	4	7.5
18	3.7	3.3	2.9	2.2	2.1	3.2	10	53	17	3.6	3.8	7.1
19	3.6	3.1	2.6	2.3	2	3.5	9.8	53	19	3.4	4.2	7
20	3.8	3.5	2.1	2.4	2.1	3.6	8.5	49	16	4.3	3.2	6.7
21	3.8	3.6	2.3	2.5	2.3	3.6	7.9	50	13	4.5	3.2	6.6
22	3.8	3.5	2.2	2.6	2.2	3.9	8.8	50	12	3.6	3.6	6.3
23	4.2	3.4	2.4	2.5	2.1	4.2	8.2	48	10	3.9	5.7	6.1
24	4.5	3.3	2.2	2.6	2.2	4.1	7.7	45	10	4.9	7.6	5.7
25	3.9	3.2	2.1	2.6	2.4	4.2	11	47	9	4	7.2	5.5
26	3.8	3.1	2	2.5	2.5	4.3	17	46	8.6	6.3	12	5.3
27	4.5	3	1.9	2.6	2.4	3.7	22	50	8.4	8.8	7	5.3
28	3.7	3.3	2	2.5	2.5	3.5	24	45	8	8.4	11	5.3
29	4.5	3.5	2	2.6	---	3.9	25	47	7.8	6.7	15	5.3
30	3.8	3.5	2.2	2.4	---	4.1	24	42	7.4	8.6	11	5.1
31	4.7	---	2.2	2.5	---	4.5	---	40	---	5.2	13	---
TOTAL	135.4	107.2	82.7	74.7	59.5	102.9	306.9	1047	578.2	161.5	186.9	269.8
MEAN	4.4	3.6	2.7	2.4	2.1	3.3	10.2	34	19.3	5.2	6	9
AC-FT	269	213	164	148	118	204	609	2080	1150	320	371	535
MAX	7.8	4.3	3.6	2.6	2.6	4.5	25	53	37	8.8	15	40
MIN	3.6	3	1.9	2.2	1.5	2.3	4.3	14	7.4	3.4	3.2	5.1
CAL YR 2002	TOTAL	2336.9	MEAN	6.40	MAX	28	MIN	1.3	AC-FT	4640		
WTR YR 2003	TOTAL	3112.7	MEAN	8.53	MAX	53	MIN	1.5	AC-FT	6170		

MAX DISCH: 62.6 CFS AT 00:00 ON May. 18, 2003 GH 1.09 FT. SHIFT -0.03 FT.
MAX GH: 1.09 FT. AT 00:00 ON May. 18, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08221500 RIO GRANDE NEAR MONTE VISTA, CO

LOCATION.--Lat 37°36'34", long 106°08'52", in NW¼SW¼ sec. 19, T.39 N., R.8 E., Rio Grande County, Hydrographic Unit 13010002, on left bank 50 ft. downstream from bridge on U.S. Highway 285, 2.0 mi. north of Monte Vista, and 12 mi. downstream from San Francisco Creek.

DRAINAGE AREA.--1,590 mi².

GAGE.--Graphic water-stage recorder with satellite telemetry in 48" CMP shelter and well. Datum of gage is 7,654.16 ft., Colorado State Highway Datum.

REMARKS.--Record is complete and reliable except for Dec. 11-13, 2002 when satellite system malfunctioned and chart recorder was not operating; and Feb. 7 - Mar. 11, 2003 when ice in well was affecting floats. Stage-discharge relation affected by ice Nov. 26-28, Dec. 7-10, 14-31, 2002, Jan. 1 - Feb. 6, Mar. 12-13, 2003. Record is good except for periods of no gage height and ice affected record, which should be considered poor. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--RIOMONCO18 USED FROM 01-OCT-2002 TO 30-SEP-2003

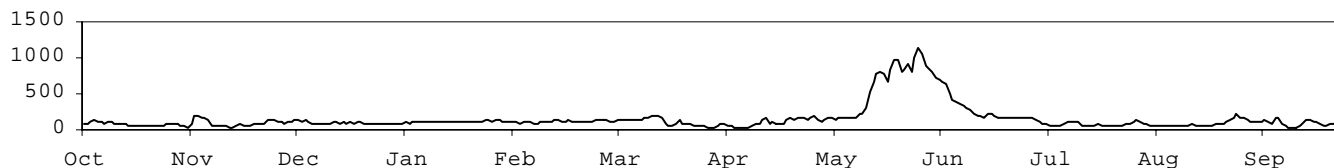
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	81	128	95	125	130	40	141	885	168	127	153
2	73	187	134	100	120	110	52	111	862	161	105	138
3	111	195	123	95	105	120	84	143	793	143	95	102
4	134	174	128	100	90	130	74	164	726	120	73	109
5	125	168	117	105	110	140	62	162	684	94	57	105
6	107	139	76	105	100	130	48	146	656	76	49	112
7	85	53	90	100	100	130	41	180	626	61	43	129
8	100	45	80	100	95	135	31	158	506	55	50	122
9	104	49	90	100	95	140	19	162	409	55	68	72
10	94	58	95	110	105	145	17	166	379	59	66	167
11	83	51	95	110	110	150	35	168	364	86	58	165
12	85	29	100	100	120	155	69	162	341	100	67	76
13	80	39	100	100	115	170	94	236	304	106	67	69
14	69	60	95	100	130	188	80	232	289	108	67	40
15	63	76	100	105	130	194	126	319	217	106	54	40
16	57	57	95	105	125	208	159	537	188	64	61	30
17	56	42	100	105	125	178	85	664	181	54	71	52
18	55	60	95	100	130	83	124	769	177	62	67	80
19	57	71	100	100	120	63	78	814	220	58	62	147
20	59	70	100	110	115	61	82	782	209	68	57	129
21	59	72	85	110	115	96	97	674	199	75	52	103
22	62	91	95	120	125	126	147	832	170	67	53	99
23	58	127	90	120	125	76	165	980	176	47	55	89
24	66	136	90	120	115	77	141	983	166	55	70	64
25	71	134	85	130	125	80	164	799	175	57	71	59
26	72	125	85	130	130	63	167	839	160	53	71	72
27	92	115	80	120	130	66	163	920	169	55	115	87
28	88	92	85	130	130	58	128	801	160	68	145	135
29	49	98	85	135	---	44	169	1000	159	75	166	135
30	43	117	90	125	---	27	202	1150	159	91	211	115
31	31	---	95	120	---	30	---	1060	---	124	160	---
TOTAL	2370	2811	3006	3405	3260	3503	2943	16254	10709	2571	2533	2995
MEAN	77	94	97	110	116	113	98	524	357	83	82	100
AC-FT	4700	5580	5960	6750	6470	6950	5840	32240	21240	5100	5020	5940
MAX	134	195	134	135	130	208	202	1150	885	168	211	167
MIN	31	29	76	95	90	27	17	111	159	47	43	30

CAL YR	2002	TOTAL	38413	MEAN	105	MAX	304	MIN	17	AC-FT	76190
WTR YR	2003	TOTAL	56360	MEAN	154	MAX	1150	MIN	17	AC-FT	111800

MAX DISCH: 1290 CFS AT 14:30 ON May. 29, 2003 GH 4.97 FT. SHIFT -0.09 FT.
MAX GH: 4.97 FT. AT 14:30 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

RIO GRANDE AT RIO GRANDE-ALAMOSA COUNTY LINE, CO

LOCATION.--Lat 37°34'13", Long 106°02'43", SW¼NW¼ sec.6, T. 38 N., R. 9 E., Alamosa County, on left bank 125 feet downstream from the county line bridge, 5.0 miles East of Monte Vista and 2.4 miles North of U.S. Highway 160 and 285, on the County Line Road.

DRAINAGE AREA.--1,640 mi².

GAGE.--Graphic water-stage recorder with satellite telemetry in a timber shelter and corrugated metal well. Datum of gage is 7,595 feet, from topographic map.

REMARKS.--Record is complete and reliable except for Dec. 8, 2002 - Feb. 6, 2003 when the well was frozen. A oil cylinder was installed for shaft encoder float on Feb. 6, 2003. Chart recorder resumed operation on Mar. 11, 2003. Stage-discharge relation was affected by ice Nov. 16-17, 20, 26-30, Dec. 1-7, 2002, Feb. 7-12, 14-19, 23, 2003. The control was submerged July 17-22, 2003. Record is fair except for periods of no gage-height, ice affected record, and submerged conditions, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

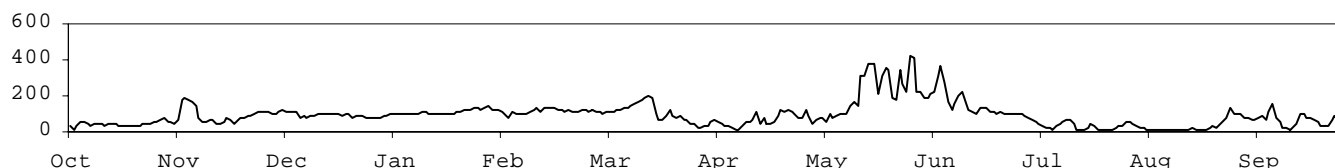
RATING TABLE.--RIOLINCO06 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	65	125	95	125	110	28	89	217	97	57	103
2	11	175	115	95	115	109	36	48	223	91	48	100
3	34	189	110	95	90	101	59	63	192	79	37	78
4	53	174	115	95	75	109	68	77	192	66	26	77
5	54	163	110	100	115	112	56	82	207	55	18	68
6	47	150	75	105	105	114	46	61	223	42	10	71
7	38	79	85	100	105	117	38	97	306	33	6.9	81
8	39	56	75	100	100	124	31	81	364	21	6.1	93
9	44	54	85	100	105	128	19	85	278	21	13	66
10	45	65	90	110	115	133	10	96	163	15	16	110
11	36	62	95	110	125	147	7.1	104	126	30	7.4	155
12	39	41	100	100	130	153	35	98	161	50	14	74
13	43	39	105	100	116	163	55	148	198	60	10	61
14	39	61	95	100	135	176	51	166	227	64	14	27
15	34	80	100	105	135	186	70	141	152	63	7.6	20
16	29	63	95	105	130	197	109	309	123	40	6	14
17	29	48	95	105	130	184	46	310	111	16	13	19
18	28	62	90	100	125	101	75	383	102	16	16	42
19	33	77	105	105	125	72	45	380	136	16	19	95
20	35	76	100	110	113	71	44	377	134	26	14	101
21	37	88	80	115	117	85	61	207	131	41	10	80
22	45	84	90	120	113	127	94	306	109	36	9	79
23	44	104	85	120	115	86	122	358	109	10	6.1	72
24	46	112	85	120	114	75	114	343	100	8.5	18	51
25	52	114	80	130	122	89	121	185	108	13	31	31
26	54	110	80	135	117	67	111	182	96	9.5	23	33
27	68	110	75	120	108	66	105	349	104	11	45	36
28	78	95	80	135	118	47	74	267	100	24	67	66
29	60	100	80	140	---	40	82	224	102	32	82	84
30	52	110	85	125	---	20	126	421	97	37	137	65
31	42	---	90	125	---	18	---	415	---	56	103	---
TOTAL	1317	2806	2875	3420	3238	3327	1938.1	6452	4891	1179	890.1	2052
MEAN	43	94	93	110	116	107	64.6	208	163	38	28.7	68
AC-FT	2610	5570	5700	6780	6420	6600	3840	12800	9700	2340	1770	4070
MAX	78	189	125	140	135	197	126	421	364	97	137	155
MIN	11	39	75	95	75	18	7.1	48	96	8.5	6	14
CAL YR 2002	TOTAL	28359.22	MEAN	77.7	MAX	269	MIN	0.18	AC-FT	56250		
WTR YR 2003	TOTAL	34385.2	MEAN	94.2	MAX	421	MIN	6	AC-FT	68200		

MAX DISCH: 540 CFS AT 19:30 ON May. 27, 2003 GH 3.73 FT. SHIFT 0.05 FT.
MAX GH: 3.73 FT. AT 19:30 ON May. 27, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08223000 RIO GRANDE AT ALAMOSA, CO

LOCATION.--Lat 37°28'53", long 105°52'46", in SE¼NE¼ sec. 4, T. 37 N., R. 10 E., Alamosa County, on left bank 0.2 mile northwest of Adams State College and 9 miles upstream from Alamosa Creek.

DRAINAGE AREA.--1,710 mi².

GAGE.--Graphic water-stage recorder and a Sutron satellite monitoring system with temperature probe in a 4 ft. by 6 ft. exposed aggregate building with a 4 ft. diameter concrete well. Datum of gage is 7,532.66 ft.

REMARKS.--Record is complete and reliable. Stage-discharge relation was affected by ice Nov. 16-17, 26-30, Dec. 1, 2002 - Feb. 15, 2003. Stage-discharge relation was affected by backwater from the Westside Diversion and/or beaver dams below the gage Oct. 1-2, 6-18, 26-31, Nov. 1, 2002. Record is good except for periods of no gage-height record, ice affected record, and backwater affected record, which are fair to poor. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--RIOALACO21 USED FROM 01-OCT-2002 TO 30-SEP-2003

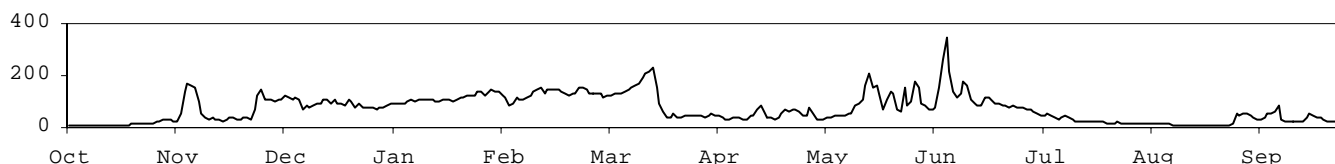
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5	21	110	90	135	131	42	74	156	74	12	50
2	6	53	125	90	125	128	48	56	96	72	12	52
3	6.4	141	115	95	115	119	54	31	86	68	14	52
4	6.7	169	110	90	85	124	49	29	70	61	13	44
5	7.3	164	115	95	90	125	45	33	73	54	12	36
6	6.5	156	110	100	115	131	37	39	78	48	12	34
7	7.4	99	70	105	110	133	32	37	152	48	13	32
8	8	55	85	100	110	134	31	45	264	51	13	39
9	7.2	40	75	105	115	142	36	44	344	45	13	51
10	7.2	34	85	105	125	144	38	43	217	42	13	52
11	7.4	36	90	110	135	155	36	50	141	34	12	63
12	7.6	34	95	110	150	165	29	54	113	37	12	88
13	8	30	105	105	155	173	33	55	134	45	11	29
14	8.5	26	110	100	130	189	46	88	174	35	9.3	26
15	9	31	95	100	145	209	47	90	165	29	8	26
16	9.5	40	105	105	145	217	68	110	111	26	7	24
17	10	37	95	105	144	230	88	160	92	25	6.7	22
18	11	31	90	105	148	156	54	207	83	23	6.6	22
19	12	34	85	100	142	93	42	154	82	22	6.5	23
20	14	41	110	105	134	59	36	161	114	23	6.5	38
21	13	37	100	115	126	42	30	131	114	23	6.5	54
22	13	33	75	115	127	42	36	73	106	26	6.4	44
23	14	71	90	120	127	51	52	110	92	26	6.4	39
24	15	126	80	125	156	38	68	140	89	21	6.4	37
25	17	143	80	125	155	41	64	132	82	17	6.6	34
26	20	110	75	135	145	43	73	69	84	15	6.8	26
27	24	105	75	135	133	45	68	64	79	16	6.8	23
28	27	110	70	125	130	50	64	152	81	20	7	22
29	32	100	75	140	---	44	46	84	79	18	7.5	24
30	30	105	75	145	---	46	50	99	79	16	17	42
31	26	---	85	135	---	44	---	178	---	13	52	---
TOTAL	395.7	2212	2860	3435	3652	3443	1442	2792	3630	1073	342	1148
MEAN	12.8	74	92	111	130	111	48	90	121	35	11	38
AC-FT	785	4390	5670	6810	7240	6830	2860	5540	7200	2130	678	2280
MAX	32	169	125	145	156	230	88	207	344	74	52	88
MIN	5	21	70	90	85	38	29	29	70	13	6.4	22

CAL YR 2002 TOTAL 26025.6 MEAN 71.3 MAX 293 MIN 3.3 AC-FT 51620
WTR YR 2003 TOTAL 26424.7 MEAN 72.4 MAX 344 MIN 5 AC-FT 52410

MAX DISCH: 363 CFS AT 10:45 ON Jun. 9, 2003 GH 3.31 FT. SHIFT -0.54 FT.
MAX GH: 3.9 FT. AT 11:30 ON Jan. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN PROJECT CANAL NEAR ALAMOSA, CO

RIO GRANDE COMPACT STATION

LOCATION.--Lat 37°28'33", long 105°45'58", SW¼SW¼, sec. 3, T.37 N., R.11 E., Alamosa County, Hydrologic Unit 13010002, 400 ft north of State Highway 160, 5.5 mi east of Alamosa, Co. on right bank of Closed Basin Project Canal.

DRAINAGE AREA.--

GAGE.--Graphic water-stage recorders on Ha and Hb in 8 ft. x 10 ft. steel plated building with concrete stilling wells. Sutron satellite monitoring system operating in conjunction with the graphic recorders. The Bureau of Reclamation owns and operates an independent Sutron system using pressure transducers, a water quality monitor, and temperature sensor which are all collected using a Remote Terminal Unit (R.T.U.).

REMARKS.--Record is complete and reliable. Stage-discharge relation affected by ice January 16, and February 6, 9, 10, 2003. Record is good except for periods of ice affected record which should be considered fair. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--CBPALACO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

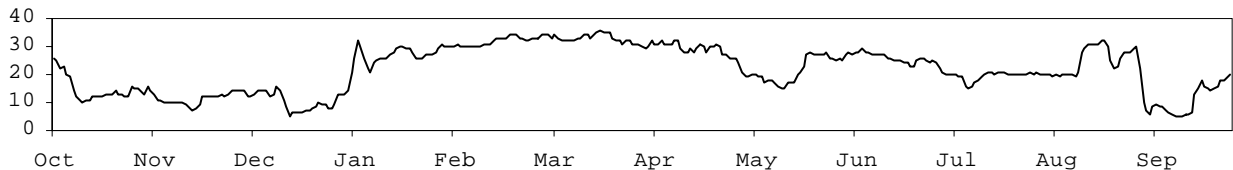
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	13	12	21	30	34	30	24	26	24	21	30
2	25	11	13	26	30	34	29	21	25	22	20	22
3	22	11	14	32	31	34	30	19	27	21	20	10
4	23	10	14	30	30	33	32	19	28	20	20	6.8
5	20	9.9	14	26	30	34	31	20	27	20	20	5.7
6	19	10	14	22	30	33	31	20	28	20	19	8.3
7	14	10	12	21	30	32	32	19	28	20	20	9.1
8	12	10	13	24	30	32	31	19	29	19	19	8.7
9	11	10	16	25	30	32	31	17	28	19	20	8.3
10	10	9.8	14	26	30	32	31	18	28	16	20	7.2
11	11	9	11	26	31	32	32	18	27	15	20	6.4
12	11	7.8	8.3	26	31	33	32	17	27	16	20	5.4
13	12	7.3	5.1	27	31	33	29	16	27	17	19	5
14	12	7.9	6.1	28	32	34	28	15	27	18	21	5
15	12	9.1	6.4	29	33	34	28	15	27	19	28	5.1
16	12	12	6.4	30	33	33	29	17	26	20	29	5.5
17	13	12	6.4	30	33	34	28	17	26	21	31	5.6
18	13	12	6.8	29	33	35	29	17	25	21	31	6.4
19	13	12	6.9	29	34	36	31	20	25	20	31	13
20	14	12	8	28	34	35	30	21	25	21	31	15
21	13	12	8.7	26	34	35	28	23	24	21	32	18
22	13	13	9.9	26	33	35	30	27	24	21	32	16
23	12	12	9.5	26	33	33	30	28	23	20	30	15
24	12	13	9.1	27	32	32	31	27	23	20	25	14
25	16	14	7.9	27	32	32	30	27	25	20	22	15
26	15	14	7.8	27	33	31	27	27	26	20	23	16
27	15	14	9.5	28	33	32	27	27	26	20	26	18
28	14	14	13	29	33	32	26	28	25	20	28	18
29	13	14	13	31	---	31	26	26	24	20	28	19
30	16	12	13	30	---	31	26	26	25	21	28	20
31	14	---	14	30	---	31	---	25	---	20	29	---
TOTAL	458	337.8	322.8	842	889	1024	885	660	781	612	763	357.5
MEAN	15	11.3	10.4	27	32	33	30	21	26	20	25	11.9
AC-FT	908	670	640	1670	1760	2030	1760	1310	1550	1210	1510	709
MAX	26	14	16	32	34	36	32	28	29	24	32	30
MIN	10	7.3	5.1	21	30	31	26	15	23	15	19	5

CAL YR 2002 TOTAL 7421.6 MEAN 20.3 MAX 32 MIN 5.1 AC-FT 14720
WTR YR 2003 TOTAL 7932.1 MEAN 21.7 MAX 36 MIN 5 AC-FT 15730

MAX DISCH: 36 CFS AT 15:30 ON Mar. 18, 2003 GH 0.84 FT. SHIFT 0.01 FT.
MAX GH: 1.09 FT. AT 03:00 ON Jan. 16, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

08224500 KERBER CREEK NEAR VILLA GROVE, CO

LOCATION.--Lat 38°13'12", long 105°58'33", in SW¼SW¼, sec. 21, T. 46 N., R. 8 E., Saguache County, on left bank 7 miles west of Villa Grove and 5 ½ miles downstream from the town of Bonanza.

DRAINAGE AREA AND PERIOD OF RECORD.--45.4 mi² (revised). (approx.) Originally established with staff gage only in 1911. Station at various locations from that time.

GAGE.--Graphic water-stage recorder and Sutron satellite system in a 6' by 6' exposed aggregate gage and 4' diameter concrete well at a concrete ramp flume. Full station name: Kerber Creek above Little Kerber Creek near Villa Grove, CO. Altitude of gage is 8,840 ft. from topographic map.

REMARKS.--Record is complete and reliable except for Jan. 5 through Feb. 7, 2003 when the station was closed for the winter, and June 2-4, 2003 when the inlets where plugged. Stage-discharge relation was affected by ice Nov. 22, 23, 25, 27 - 30, Dec. 1 - 25, 2002, Jan. 1, Feb. 8 - 28, Mar. 1 - 18, 24, 26, 27, April 1 - 7, 9, 2003. The record for Water Year 2003 should be considered good for periods of gage height data, and poor for all other periods. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--KERVILCO18 USED FROM 01-OCT-2002 TO 30-SEP-2003

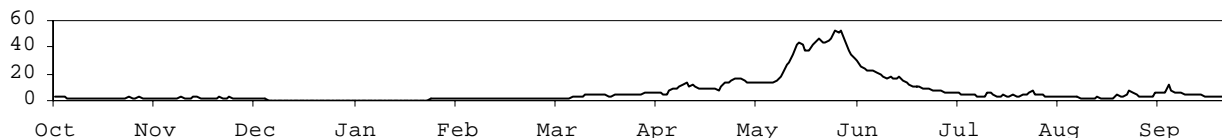
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.8	1.5	.01	1.5	1.5	6	16	53	8	4.4	3.5
2	2.4	2	1.5	.01	1.6	1.4	5.8	15	45	7	3.9	2.6
3	2.6	1.3	1.6	.01	1.4	1.5	5.6	14	38	6.7	3.1	3.1
4	2.3	1.7	1.2	.01	1.3	1.7	5.4	14	35	6.3	2.8	3.7
5	2.2	1.4	1.1	0	1.3	1.8	5.4	14	32	6.1	2.4	3.7
6	2	1.4	.7	0	1.2	1.8	5.4	14	30	5.8	2.3	6.4
7	2	1.5	.6	0	1	1.9	5	13	26	5.7	2.3	6.4
8	2	1.8	.6	0	1	2	5.1	13	24	5.1	2.7	5.7
9	2	2.3	.64	0	1.1	2.1	7	13	23	4.6	3.1	6.3
10	1.8	1.8	.54	0	1.1	2.3	9	13	23	4.5	2.8	12
11	1.8	2.2	.58	0	1.2	2.7	9.3	13	22	4.2	2.5	7.7
12	1.7	1.7	.6	0	1.2	3.1	10	15	21	3.9	2.6	6.5
13	1.7	2.3	.64	0	1.8	3.5	12	18	20	3.6	2.8	5.8
14	1.8	2.6	.64	0	1.7	4	13	21	18	3.5	2.1	5.4
15	1.7	2.2	.62	0	1.5	4.2	11	27	17	3.4	1.9	5.2
16	1.6	1.7	.62	0	1.4	4.6	12	28	18	5.9	1.8	4.7
17	1.7	2.2	.58	0	1.5	4.4	11	35	16	6.1	1.9	4.5
18	1.7	2.2	.54	0	1.7	4.3	9.7	42	17	4.1	2.2	4.1
19	1.7	1.9	.54	0	1.4	4	8.3	43	18	3.2	2.6	4.1
20	1.8	2.1	.5	.05	1.3	3.9	8.4	42	15	3.4	1.9	3.9
21	1.7	2.3	.39	.06	1.4	3.7	8.8	37	13	3.8	1.6	3.5
22	1.7	2.2	.39	.07	1.6	3.3	9.6	38	12	3.1	1.9	3.4
23	2.2	2.1	.39	.2	1.3	3.9	8.3	42	11	3.4	1.8	3.3
24	2.3	2.3	.39	.4	1.2	4.2	7.8	44	11	3.8	2.2	3.1
25	2.1	1.7	.39	1.3	1.5	4.6	11	46	10	2.7	3.8	3
26	2	1.5	.39	1.2	1.5	4.4	13	43	9.5	3.3	2.8	2.9
27	2.3	1.3	.24	1	1.5	4.6	14	44	8.9	4.9	2.6	2.9
28	2.2	1.4	.1	1	1.7	4.5	15	45	8.3	4.5	4.3	2.9
29	2	1.5	.02	1	---	4.5	16	46	8.2	6.1	8	2.8
30	1.7	1.4	.01	1.2	---	4.4	16	53	7.8	6.8	5.3	2.8
31	2	---	.01	1.8	---	4.9	---	51	---	4.9	4.8	---
TOTAL	61	55.8	18.56	9.32	38.9	103.7	283.9	912	610.7	148.4	91.2	135.9
MEAN	2	1.9	.6	.3	1.4	3.4	9.5	29	20.4	4.8	2.9	4.5
AC-FT	121	111	37	18	77	206	563	1810	1210	294	181	270
MAX	2.6	2.6	1.6	1.8	1.8	4.9	16	53	53	8	8	12
MIN	1.6	1.3	.01	0	1	1.4	5	13	7.8	2.7	1.6	2.6

CAL YR	2002	TOTAL	817.82	MEAN	2.24	MAX	7.4	MIN	0.01	AC-FT	1620
WTR YR	2003	TOTAL	2469.38	MEAN	6.77	MAX	53	MIN	0	AC-FT	4900

MAX DISCH: 56 CFS AT 07:15 ON May. 30, 2003 GH 1.36 FT. SHIFT -0.01 FT.
MAX GH: 1.36 FT. AT 07:15 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

GARNER CREEK near VILLA GROVE, CO

LOCATION.--Lat 38°10'27", long 105°48'29", in SE ¼ SE ¼ Sec. 1, T.45 N., R.10 E., NMPM, Saguache Co., on right bank, 12 miles SE of Villa Grove.

DRAINAGE AREA.--6.4 mi².

GAGE.--Stilling well of 2-foot diameter steel culvert pipe installed in 1999 water year. Instrument shelter is small steel box-type shelter atop well. Contact to stream is a 1-inch intake pipe attached to both stilling well and 2-foot Parshall flume. Flume and staff gage have been at this site many years. Sutron DCP is set by an outside staff gage. Flume and staff gage there for several years previous. Elevation 8680 ft.

REMARKS.--Record is complete and reliable for the water year, except for November 27 through December 10, 2002, and March 14-27, 2003 when the well was frozen; December 11, 2002 through March 13, 2003, when the station was closed for the winter; and October 30, 31, and November 1, 2002 when there was missing satellite data. Stage-discharge relation was affected by ice April 8, 2003. Record good, except during period of no gage-height record and ice affected record, which is fair to poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--GARVILCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

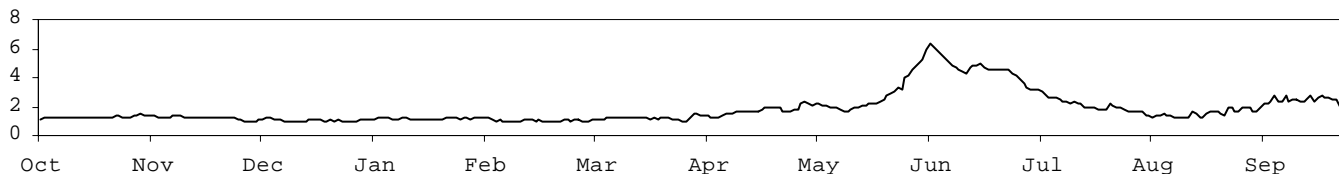
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.4	1.1	1.1	1.2	1	1.5	2.2	4.5	3.9	1.7	2
2	1.2	1.4	1.1	1.1	1.3	1	1.5	2.3	4.8	3.6	1.7	2
3	1.3	1.3	1.2	1.2	1.2	1	1.4	2.2	5.1	3.3	1.6	1.9
4	1.3	1.3	1.2	1.2	1.1	1.1	1.4	2.1	5.3	3.2	1.6	1.6
5	1.2	1.3	1.1	1.2	1	1.1	1.4	2.2	5.9	3.2	1.4	1.6
6	1.3	1.3	1.1	1.2	1.1	1.1	1.3	2.2	6.3	3.2	1.4	1.9
7	1.2	1.4	1.1	1.1	1	1.1	1.3	2.1	6.1	3.1	1.3	2.2
8	1.2	1.4	1	1.1	.9	1.2	1.3	2.1	5.8	2.9	1.4	2.2
9	1.2	1.4	1	1.1	1	1.2	1.4	2	5.6	2.6	1.4	2.4
10	1.2	1.3	1	1.2	1	1.2	1.5	1.9	5.4	2.6	1.5	2.7
11	1.2	1.3	1	1.2	1	1.3	1.5	1.9	5.1	2.6	1.4	2.3
12	1.2	1.3	1	1.1	1	1.3	1.5	1.8	4.8	2.5	1.4	2.3
13	1.2	1.2	1	1.1	1.1	1.3	1.6	1.7	4.7	2.4	1.2	2.7
14	1.2	1.3	1	1.1	1.1	1.3	1.6	1.7	4.5	2.3	1.2	2.3
15	1.3	1.3	1.1	1.1	1.1	1.2	1.7	1.8	4.4	2.2	1.3	2.5
16	1.3	1.3	1.1	1.1	1	1.3	1.7	2	4.3	2.3	1.2	2.5
17	1.3	1.3	1.1	1.1	1.1	1.3	1.7	2	4.7	2.2	1.3	2.4
18	1.3	1.3	1.1	1.1	1	1.3	1.6	2.1	4.8	2.2	1.6	2.4
19	1.3	1.2	1	1.1	1	1.3	1.6	2.1	4.8	2	1.5	2.5
20	1.3	1.3	1	1.1	1	1.1	1.8	2.2	5	1.9	1.3	2.7
21	1.3	1.2	1.1	1.1	1	1.3	1.9	2.2	4.7	1.9	1.3	2.4
22	1.4	1.2	1	1.2	1	1.1	2	2.2	4.5	1.9	1.5	2.6
23	1.4	1.3	1.1	1.2	1	1.2	1.9	2.3	4.5	1.8	1.7	2.7
24	1.3	1.2	1	1.2	1.1	1.2	1.9	2.5	4.6	1.8	1.7	2.6
25	1.3	1.1	1	1.2	1.1	1.2	1.9	2.7	4.6	1.8	1.6	2.6
26	1.3	1.1	1	1.1	1	1.1	1.7	2.9	4.5	2.2	1.5	2.5
27	1.4	1	1	1.2	1.1	1.1	1.7	3	4.5	2.1	1.4	2.5
28	1.4	1	1	1.2	1.1	1.1	1.7	3.3	4.5	2	1.9	1.9
29	1.5	1	1.1	1.1	---	.95	1.8	3.2	4.3	1.9	1.9	1.9
30	1.4	1	1.1	1.2	---	1	1.8	4	4.1	1.8	1.7	1.8
31	1.4	---	1.1	1.2	---	1.3	---	4.1	---	1.7	1.6	---
TOTAL	39.9	37.4	32.8	35.5	29.6	36.25	48.6	73	146.7	75.1	46.2	68.6
MEAN	1.3	1.3	1.1	1.2	1.06	1.17	1.6	2.4	4.9	2.4	1.5	2.3
AC-FT	79	74	65	70	59	72	96	145	291	149	92	136
MAX	1.5	1.4	1.2	1.2	1.3	1.3	2	4.1	6.3	3.9	1.9	2.7
MIN	1.1	1	1	1.1	.9	.95	1.3	1.7	4.1	1.7	1.2	1.6

CAL YR 2002 TOTAL 408.91 MEAN 1.12 MAX 1.6 MIN .7 AC-FT 811
WTR YR 2003 TOTAL 669.65 MEAN 1.83 MAX 6.3 MIN .9 AC-FT 1330

MAX DISCH: 7.03 CFS AT 13:00 ON Jun. 5, 2003 GH 0.93 FT. SHIFT -0.01 FT.
MAX GH: 0.93 FT. AT 13:00 ON Jun. 5, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN
CLOSED BASIN IN SAN LUIS VALLEY
MAJOR CREEK near VILLA GROVE, CO

LOCATION.--Lat 38°09'26", long 105°48'32", in NE ¼ NE ¼ Sec. 13, T.45 N., R.10 E., NMPM, Saguache Co., on right bank, 11 miles SE of Villa Grove.

DRAINAGE AREA.--5.0 mi².

GAGE.--Station established in water year 1999 with installation of 2' diameter CMP as stilling well with a steel equipment box mounted on top at a 2' Parshall flume. Flume already at the site. Satellite monitoring equipment installed Dec. 1998 but gage not operational till Mar. 21, 1999. Elevation of gage is 8410 ft.

REMARKS.--Record is complete and reliable except for December 11, 2002 through March 27, 2003 when the station was closed for the winter, December 6 -10, 2002 when the well was frozen, November 1-5, 2002, August 7 - 22, 27, 28, 2003 when the well was isolated from the flume, and March , 28-31, April 1, 2003 when there was missing satellite data. Stage-discharge relation affected by ice November 12, 16, 18, 19, 26-28, December 5, 2002, and April 8, 2003. Record good, except for period of no gage heights, ice-effect, missing satellite data, and periods when the well was isolated from the flume, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--MAJVILCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

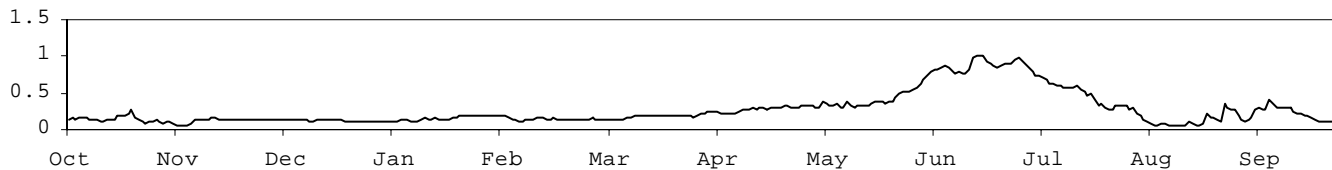
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.05	.14	.12	.2	.13	.23	.34	.58	.95	.28	.18
2	.16	.05	.14	.12	.2	.13	.24	.34	.63	.9	.29	.13
3	.15	.05	.13	.12	.18	.13	.25	.3	.67	.85	.22	.12
4	.16	.05	.13	.13	.16	.15	.24	.31	.75	.8	.2	.15
5	.16	.09	.13	.13	.14	.15	.24	.38	.78	.75	.15	.17
6	.16	.13	.13	.13	.14	.14	.23	.36	.82	.73	.12	.27
7	.13	.13	.13	.12	.12	.14	.23	.34	.82	.72	.08	.29
8	.15	.13	.13	.12	.12	.15	.23	.34	.84	.67	.05	.28
9	.13	.13	.12	.12	.13	.15	.23	.35	.86	.63	.05	.26
10	.12	.13	.12	.15	.13	.16	.23	.31	.85	.62	.08	.41
11	.11	.16	.13	.17	.15	.17	.25	.3	.82	.59	.08	.35
12	.13	.16	.13	.14	.16	.18	.26	.37	.77	.59	.05	.31
13	.13	.13	.13	.13	.17	.18	.26	.34	.79	.57	.05	.29
14	.15	.13	.13	.17	.16	.18	.26	.31	.77	.57	.05	.31
15	.2	.14	.13	.15	.15	.18	.29	.33	.76	.57	.05	.31
16	.19	.13	.13	.15	.15	.2	.28	.33	.81	.57	.05	.3
17	.2	.13	.14	.15	.17	.2	.29	.33	.98	.61	.05	.25
18	.22	.13	.13	.15	.15	.2	.29	.33	1	.55	.1	.23
19	.28	.13	.12	.17	.14	.19	.28	.35	1	.52	.08	.22
20	.16	.13	.11	.17	.13	.18	.3	.38	1	.47	.05	.19
21	.14	.14	.11	.19	.14	.19	.3	.39	.94	.48	.05	.18
22	.11	.13	.11	.2	.14	.18	.31	.39	.89	.41	.08	.16
23	.09	.13	.12	.2	.13	.19	.31	.35	.88	.34	.23	.14
24	.12	.15	.11	.2	.14	.2	.34	.37	.84	.36	.16	.12
25	.11	.15	.11	.2	.15	.2	.32	.38	.88	.29	.16	.12
26	.15	.15	.1	.2	.14	.19	.31	.45	.9	.26	.13	.11
27	.12	.15	.1	.2	.15	.19	.29	.48	.91	.27	.1	.11
28	.09	.15	.11	.2	.16	.18	.31	.51	.89	.33	.36	.11
29	.1	.15	.12	.19	---	.17	.33	.51	.95	.32	.29	.08
30	.1	.13	.12	.2	---	.19	.33	.51	.97	.32	.27	.08
31	.09	---	.12	.2	---	.22	---	.55	---	.32	.27	---
TOTAL	4.44	3.74	3.81	4.99	4.2	5.39	8.26	11.63	25.35	16.93	4.23	6.23
MEAN	.14	.12	.12	.16	.15	.17	.28	.38	.85	.55	.14	.21
AC-FT	8.8	7.4	7.6	9.9	8.3	11	16	23	50	34	8.4	12
MAX	.28	.16	.14	.2	.2	.22	.34	.55	1	.95	.36	.41
MIN	.09	.05	.1	.12	.12	.13	.23	.3	.58	.26	.05	.08

CAL YR 2002 TOTAL 74.94 MEAN .21 MAX .75 MIN .05 AC-FT 149
WTR YR 2003 TOTAL 99.2 MEAN .27 MAX 1 MIN .05 AC-FT 197

MAX DISCH: 3.08 CFS AT 17:30 ON Aug. 23, 2003 GH 0.52 FT. SHIFT 0.02 FT.
MAX GH: 0.52 FT. AT 17:30 ON Aug. 23, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

COTTON CREEK near MINERAL HOT SPRINGS, CO

LOCATION.--Lat 38°07'55", long 105°47'15", in SW ¼ SW ¼ Sec. 20, T.45 N., R.11 E., NMPM, Saguache Co., on left bank, 9 miles SE of Mineral Hot Springs.

DRAINAGE AREA.--12.8 mi².

GAGE.--This station established in water year 1999 with installation of 4' diameter CMP stilling well and shelter. Satellite monitoring system installed Mar. 24, 1999. Strip chart recorder used as a backup added on Apr. 28, 1999. Elevation of gage is 8600 ft.

REMARKS.--Record is complete and reliable for the water year except Dec. 18, 2002 through Mar. 27, 2003 when the station was closed for the winter, and Nov. 16, 18, 19, 27-30, Dec. 1-17, 2002 ; Mar. 28-31, April 1-9, 2003 when the well was frozen. Record is good, except for periods of no record, which is poor. Station maintained and record developed Div. III Hydrographic Staff.

RATING TABLE.--COCRMICO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

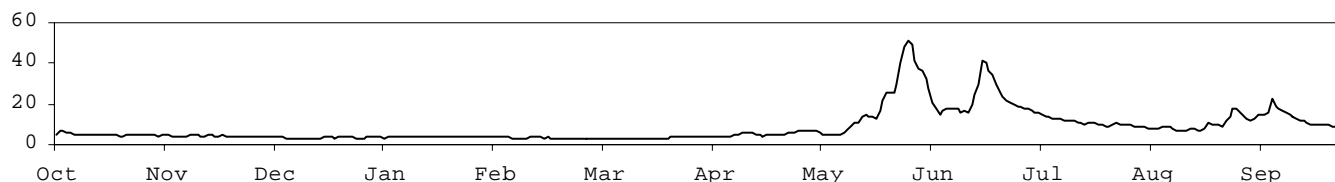
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.5	3.7	3.6	4	2.9	4.2	6.6	41	19	9.4	16
2	6.8	4.5	3.6	3.4	4.2	2.9	4.2	6.6	37	18	9.2	14
3	6.4	4	3.7	3.6	3.7	2.9	4.1	6.5	36	18	8.8	13
4	6	4.3	3.6	3.8	3.5	3	4	6.9	32	17	8.6	12
5	5.7	4.2	3.4	3.8	3.5	3	4.1	5.8	28	16	8.5	13
6	5.4	4.2	3.3	3.8	3.5	3	4.1	5.2	21	16	8.3	15
7	5.3	4.4	3.3	3.5	3.1	3	4	5.2	18	15	8.1	15
8	5.2	4.5	3.3	3.7	3.1	3.1	4	4.9	15	14	8.1	15
9	5	4.8	3.1	3.8	3.2	3.2	4.3	4.6	17	14	8.3	16
10	5.1	4.5	3.1	3.8	3.3	3.3	4.3	5.1	18	13	8.6	23
11	4.9	3.9	3.2	3.8	3.4	3.3	4.9	4.7	18	13	8.4	19
12	5	3.5	3.3	3.6	3.9	3.3	5.2	6.1	18	13	8.4	18
13	4.9	5.1	3.4	3.6	3.7	3.4	5.5	8.3	18	12	7.7	17
14	4.9	4.8	3.4	4	3.6	3.4	6.2	8.4	16	12	7	16
15	4.7	4.2	3.4	3.9	3.5	3.4	6.1	11	17	12	6.8	15
16	4.7	3.9	3.5	3.9	3.4	3.4	5.5	11	16	12	7	14
17	4.6	5	3.8	3.8	3.7	3.2	5	14	20	11	7.3	13
18	4.6	4.4	3.6	3.9	3.4	3.2	4.6	15	25	11	7.7	12
19	4.4	4.2	3.4	4	3.2	3.2	4.4	14	30	10	7.7	12
20	4.4	4.4	3.5	4	3.2	3.1	4.6	14	41	11	6.9	11
21	4.5	4.2	3.6	4	3.2	3.1	4.5	13	40	11	6.6	10
22	4.7	4	3.5	4	3.2	3.1	4.9	17	36	11	7.7	9.9
23	5.3	3.9	3.8	4.3	3	3.3	4.8	22	34	10	11	9.6
24	5.1	3.9	3.6	4.3	3.2	3.5	4.5	26	30	9.7	9.5	9.4
25	4.8	3.9	3.4	4.1	3.2	3.6	4.5	26	26	9	10	9.4
26	4.9	3.7	3.3	3.9	3.1	3.8	5.5	26	24	9	9.7	9.4
27	5.1	3.5	3.4	4.1	3.1	3.7	6	30	22	9.9	9.2	9.3
28	4.7	3.7	3.7	4.1	3	3.5	6	40	21	11	12	9.2
29	4.7	3.7	3.9	3.8	---	3.5	6.9	48	20	10	14	9.2
30	4.4	3.5	3.7	3.9	---	3.8	7.2	51	19	10	18	9.2
31	4.7	---	3.8	4	---	4.2	---	49	---	9.6	18	---
TOTAL	156	125.3	108.3	119.8	95.1	102.3	148.1	511.9	754	387.2	286.5	393.6
MEAN	5	4.2	3.5	3.9	3.4	3.3	4.9	16.5	25	12.5	9.2	13.1
AC-FT	309	249	215	238	189	203	294	1020	1500	768	568	781
MAX	6.8	5.1	3.9	4.3	4.2	4.2	7.2	51	41	19	18	23
MIN	4.4	3.5	3.1	3.4	3	2.9	4	4.6	15	9	6.6	9.2

CAL YR 2002 TOTAL 1814.9 MEAN 4.97 MAX 8.6 MIN 2.8 AC-FT 3600
WTR YR 2003 TOTAL 3188.1 MEAN 8.73 MAX 51 MIN 2.9 AC-FT 6320

MAX DISCH: 64.4 CFS AT 21:15 ON May. 30, 2003 GH 3.01 FT. SHIFT -0.16 FT.
MAX GH: 3.01 FT. AT 21:15 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

WILD CHERRY CREEK near CRESTONE, CO

LOCATION.--Lat 38°06'01", long 105°46'04", SW ¼ SW ¼ Sec. 33, T.45 N., R.11 E., NMPM, Saguache Co., on right bank, 12 miles SE of Mineral Hot Springs, 8 Miles NW of Crestone.

DRAINAGE AREA.--4.5 mi².

GAGE.--Station established in water year 1999 with the installation of 4' diameter CMP stilling well and shelter. Satellite monitoring system installed Mar. 25, 1999 with chart recorder added on Apr. 28, 1999 as a backup. Elevation of gage is 8560 ft.

REMARKS.--Record complete and reliable for the water year, except December 18, 2002 through March 27, 2003, when station was closed for the winter; November 26-30, December 1-17, 2002, and March 28-31, 2003 when the well was frozen; and May 30, 31, June 1-3, 2003 when the inlets were plugged and the well was isolated from the stream. Record good except for periods of no gage height record which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

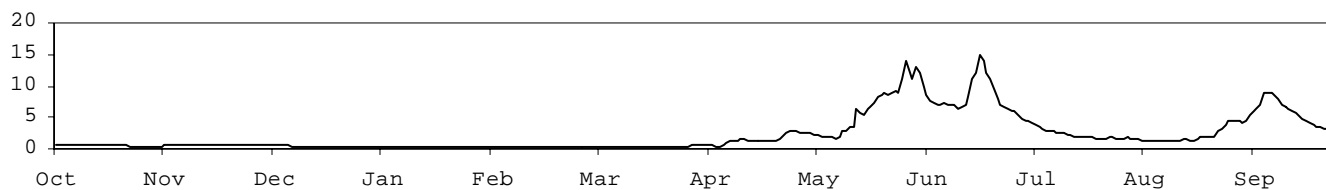
RATING TABLE.--CHECRECO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.53	.56	.35	.27	.18	.51	2.6	12	5.9	1.7	4.4
2	.64	.54	.54	.34	.28	.18	.71	2.5	11	5.4	1.8	4.4
3	.7	.51	.54	.34	.24	.18	.75	2.5	13	4.9	1.6	4.3
4	.62	.52	.52	.37	.22	.2	.64	2.5	12	4.6	1.5	4
5	.6	.51	.5	.37	.22	.2	.57	2.2	9.8	4.3	1.5	4.3
6	.6	.56	.48	.37	.22	.2	.52	2.1	8.7	4	1.4	5.4
7	.58	.62	.45	.35	.18	.21	.46	2	7.7	3.9	1.4	5.9
8	.57	.63	.45	.35	.19	.22	.42	1.9	7.2	3.5	1.4	6.4
9	.58	.63	.42	.35	.2	.22	.49	1.8	7	3.3	1.4	6.9
10	.61	.6	.42	.36	.23	.22	.8	1.8	7	3	1.4	9
11	.59	.56	.42	.35	.23	.22	1.2	1.7	7.3	2.9	1.4	8.9
12	.55	.51	.42	.32	.23	.22	1.3	2	7.1	2.7	1.4	8.8
13	.54	.64	.43	.32	.25	.23	1.4	2.8	7.1	2.6	1.3	8.5
14	.57	.6	.43	.33	.24	.23	1.6	3	6.9	2.5	1.3	7.8
15	.57	.54	.44	.32	.23	.22	1.5	3.4	6.5	2.4	1.3	7
16	.66	.6	.45	.31	.23	.22	1.3	3.6	6.6	2.3	1.3	6.6
17	.66	.63	.44	.31	.24	.22	1.4	6.2	7.1	2.2	1.3	6.3
18	.62	.59	.39	.29	.24	.22	1.3	5.8	8.4	2	1.5	6
19	.61	.58	.34	.3	.21	.25	1.2	5.5	11	2	1.5	5.6
20	.56	.58	.34	.3	.21	.25	1.2	6.4	12	2	1.3	5.1
21	.5	.58	.36	.3	.21	.27	1.2	6.6	15	1.9	1.3	4.7
22	.46	.58	.36	.3	.21	.27	1.3	7.3	14	1.9	1.5	4.4
23	.44	.58	.39	.32	.19	.33	1.3	8.3	12	1.8	1.9	4.1
24	.36	.58	.37	.31	.2	.4	1.3	8.6	11	1.7	1.9	3.8
25	.38	.58	.34	.31	.21	.41	1.5	8.9	9.5	1.7	1.8	3.6
26	.42	.54	.34	.28	.2	.45	1.9	8.7	7.9	1.7	1.8	3.4
27	.45	.54	.34	.28	.2	.45	2.5	8.9	7	1.7	1.8	3.2
28	.45	.56	.34	.29	.2	.43	2.7	9.2	6.6	1.8	2.9	3.1
29	.45	.56	.36	.26	---	.42	2.8	8.9	6.2	1.8	3.2	2.9
30	.43	.56	.35	.26	---	.45	2.8	11	6.1	1.7	3.8	2.9
31	.46	---	.35	.27	---	.48	---	14	---	1.6	4.4	---
TOTAL	16.77	17.14	12.88	9.88	6.18	8.65	38.57	162.7	270.7	85.7	55	161.7
MEAN	.54	.57	.42	.32	.22	.28	1.29	5.3	9	2.8	1.8	5.4
AC-FT	33	34	26	20	12	17	77	323	537	170	109	321
MAX	.7	.64	.56	.37	.28	.48	2.8	14	15	5.9	4.4	9
MIN	.36	.51	.34	.26	.18	.18	.42	1.7	6.1	1.6	1.3	2.9
CAL YR 2002	TOTAL	165.59	MEAN	0.45	MAX	0.78	MIN	.09	AC-FT	328		
WTR YR 2003	TOTAL	845.87	MEAN	2.32	MAX	15	MIN	.18	AC-FT	1680		

MAX DISCH: 18 CFS AT 20:00 ON Jun. 19, 2003 GH 1.97 FT. SHIFT 0 FT.
MAX GH: 2.03 FT. AT 18:00 ON Jun. 3, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

RITO ALTO CREEK near CRESTONE, CO

LOCATION.--Lat 38°04'39", long 105°45'43", in SW1/4NE1/4 Sec. 9, T.44 N., R.11 E., NMPM, Saguache Co., on right bank 12 miles SE of Mineral Hot Springs, 7 miles NW of Crestone.

DRAINAGE AREA.--10.3 mi².

GAGE.--Station established in 1999 with the installation of 4' diameter CMP stilling well and shelter. Satellite monitoring system installed April 1, 1999. Strip chart recorder installed on April 27, 1999 as a backup. Elevation of gage is 8380 ft.

REMARKS.--Water-year record is complete and reliable except for December 18, 2002 to March 27, 2003, when station was closed for the winter, and December 7-17, 2002 when the well was frozen. Stage-discharge relation affected by ice November 16, 26-28, December 2, 6, 2002, and March 28-30, April 8, 2003. Record good, except for periods of no gage-height data, or ice affected data, which is poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--RITCRECO3 USED FROM 01-OCT-2002 TO 30-SEP-2003

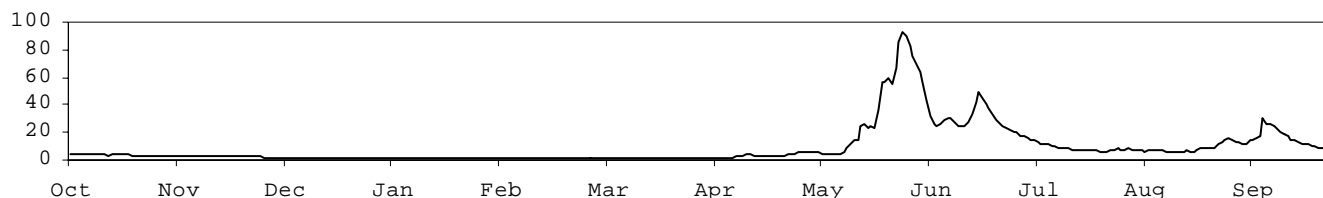
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.2	2	1.5	1.8	1.4	1.6	5.6	75	20	7.5	14
2	4.6	3.2	2	1.4	1.9	1.4	1.7	5.7	69	18	8.6	13
3	4.6	2.7	2	1.5	1.7	1.4	1.7	5.6	64	17	7.5	13
4	4.4	2.9	2.1	1.6	1.5	1.5	1.7	6	56	16	7.2	12
5	4.4	2.9	2	1.6	1.5	1.5	1.7	5.3	44	15	6.9	12
6	4	2.7	1.8	1.6	1.5	1.5	1.7	4.8	32	14	6.6	15
7	3.9	2.7	1.7	1.5	1.3	1.6	1.7	4.6	26	13	6.5	15
8	3.8	2.8	1.7	1.5	1.4	1.6	1.5	4.4	24	12	6.6	16
9	3.8	3	1.5	1.6	1.4	1.7	1.6	4.2	26	11	6.8	18
10	3.7	2.9	1.5	1.6	1.4	1.8	1.8	4.4	29	11	6.8	30
11	3.7	2.8	1.5	1.6	1.5	1.8	2.3	4.5	30	10	6.7	26
12	3.6	3	1.5	1.5	1.6	1.8	2.7	6.2	30	9.8	6.7	26
13	3.7	3.1	1.6	1.5	1.7	1.9	3	9.1	28	9.2	6.2	24
14	3.8	2.8	1.6	1.6	1.7	1.9	3.7	11	24	8.7	5.8	23
15	3.8	2.5	1.7	1.6	1.6	1.8	4	15	25	8.4	5.7	21
16	3.7	2.5	1.7	1.5	1.5	1.8	3.6	15	25	8.2	5.8	19
17	3.8	2.6	1.7	1.5	1.6	1.7	3.6	24	27	7.8	6.3	17
18	3.7	2.5	1.6	1.4	1.6	1.6	3.5	26	34	7.5	6.5	15
19	3.6	2.4	1.5	1.5	1.5	1.6	3.4	23	42	7.1	7.1	14
20	3.5	2.3	1.5	1.5	1.5	1.6	3.2	25	49	7.1	6.1	13
21	3.3	2.3	1.5	1.6	1.5	1.7	3.2	23	45	7.2	5.7	12
22	3.2	2.3	1.5	1.6	1.5	1.7	3.1	36	41	7.2	6.7	12
23	3.4	2.3	1.5	1.8	1.4	1.7	3.2	57	38	7.3	9.1	11
24	3.6	2.3	1.4	1.8	1.5	1.7	3.1	57	33	6.8	8.6	10
25	3.4	2.3	1.4	1.7	1.5	1.7	3.2	59	29	6.4	8.9	9.8
26	3.3	2.1	1.4	1.7	1.5	1.7	3.7	55	26	6.3	9	9.3
27	3.4	1.9	1.5	1.8	1.5	1.6	4.3	67	25	6.5	8.6	8.9
28	3.3	2	1.6	1.8	1.5	1.5	4.6	86	23	7.2	12	8.4
29	3.4	2.1	1.6	1.7	---	1.4	5.1	93	22	7.7	13	7.8
30	3.1	2	1.5	1.8	---	1.5	5.5	90	21	8.1	15	7.6
31	3.2	---	1.5	1.8	---	1.6	---	83	---	7.2	16	---
TOTAL	114.9	77.1	50.6	49.7	43.1	50.7	88.7	915.4	1062	308.7	246.5	452.8
MEAN	3.7	2.6	1.6	1.6	1.5	1.6	3	29.5	35	10	8	15.1
AC-FT	228	153	100	99	85	101	176	1820	2110	612	489	898
MAX	4.6	3.2	2.1	1.8	1.9	1.9	5.5	93	75	20	16	30
MIN	3.1	1.9	1.4	1.4	1.3	1.4	1.5	4.2	21	6.3	5.7	7.6

CAL YR 2002 TOTAL 1075.7 MEAN 2.95 MAX 6.0 MIN 1.4 AC-FT 2130
WTR YR 2003 TOTAL 3460.2 MEAN 9.48 MAX 93 MIN 1.3 AC-FT 6860

MAX DISCH: 118 CFS AT 19:30 ON May. 28, 2003 GH 2.98 FT. SHIFT 0.02 FT.
MAX GH: 2.98 FT. AT 19:30 ON May. 28, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN
CLOSED BASIN IN SAN LUIS VALLEY
SAN ISABEL CREEK near CRESTONE, CO

LOCATION.--Lat 38°02'04", long 105°43'03", in NW1/4,NW1/4, T.44 N., R.11 E., NMPM, Saguache Co., on left bank 3 miles NW of Crestone.

DRAINAGE AREA.--5.7 mi².

GAGE.--Station established in 1999 with the installation of 4' diameter CMP stilling well and shelter. Satellite monitoring system installed on Apr. 01, 1999 with a chart recorder backup installed on Apr. 27, 1999. Elevation of gage is 8200 ft.

REMARKS.--Record is complete and reliable except for the following periods: November 17, 18, 2002 when the well was frozen. November 19, 2002 through March 31, 2003, when station was closed for winter. Gage-height was affected by ice on November 12, 16, 2002, and April 8, 2003. May 22-25, 28, 29, 2003, when the inlets were plugged. Record good, except during periods of no stage data and ice effect, which is poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--SANCRECO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

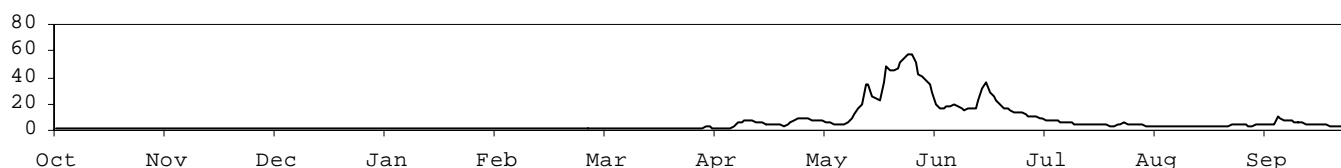
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.7	1.5	1.2	1.2	1	1.9	8.6	43	12	4	3.9
2	2.1	1.6	1.4	1.1	1.3	1	2.4	8.1	41	11	4.3	3.5
3	2.1	1.6	1.5	1.2	1.1	1	2.4	7.9	37	11	3.9	3.7
4	1.9	1.6	1.5	1.3	1	1.1	2.2	7.8	34	9.9	3.6	3.8
5	1.9	1.6	1.4	1.3	1	1.1	2.1	6.8	28	9.3	3.5	3.8
6	1.7	1.5	1.4	1.3	.96	1	2	5.9	20	8.6	3.3	4
7	1.7	1.6	1.4	1.1	.94	1.1	1.9	5.3	17	8	3.3	4.7
8	1.7	1.5	1.4	1.1	.94	1.2	1.6	4.9	17	7.6	3.5	4.5
9	1.7	1.6	1.3	1.2	.98	1.2	2.1	4.5	18	7.2	3.4	5.2
10	1.7	1.5	1.3	1.2	1	1.3	3.5	4.5	18	6.8	3.1	10
11	1.7	1.5	1.3	1.1	1.1	1.4	5.6	4.4	19	6.3	3.1	8.9
12	1.7	1.5	1.3	1.1	1.1	1.4	6.5	6.4	18	5.9	3.2	8.2
13	1.7	1.6	1.4	1.1	1.2	1.4	6.8	9.6	16	5.6	2.9	7.7
14	1.6	1.5	1.4	1.2	1.2	1.3	8.2	12	15	5.4	2.7	7
15	1.6	1.4	1.4	1.2	1.1	1.3	7.6	16	16	5.2	2.7	6.5
16	1.6	1.3	1.4	1.1	1	1.3	6.2	19	16	5.1	2.8	5.9
17	1.5	1.4	1.4	1.1	1.1	1.2	5.9	34	17	4.9	2.8	5.5
18	1.6	1.4	1.2	1	1	1.2	5.4	34	23	4.6	2.6	5.2
19	1.6	1.5	1.1	1.1	1	1.2	4.8	26	32	4.4	2.5	4.9
20	1.6	1.6	1.2	1.1	1	1.2	4.2	24	36	4.6	2.4	4.7
21	1.6	1.7	1.2	1.1	1.1	1.3	4	22	29	4.4	2.3	4.4
22	1.6	1.6	1.1	1.2	1.1	1.3	4	36	25	4.3	2.6	4.2
23	1.7	1.8	1.2	1.2	1	1.4	3.9	49	22	4.2	3	4
24	1.8	1.7	1.1	1.2	1.1	1.4	3.6	46	19	4	2.9	3.8
25	1.7	1.6	1	1.1	1.2	1.4	3.8	46	17	3.6	3.4	3.6
26	1.8	1.5	1	1.1	1.1	1.5	5.6	47	16	3.5	3.5	3.5
27	1.7	1.4	1.1	1.2	1.1	1.4	7.6	52	15	4.1	3.2	3.4
28	1.6	1.5	1.2	1.2	1.1	1.3	8.5	54	14	4.5	4.6	3.4
29	1.7	1.6	1.3	1.1	---	1.3	9.5	58	13	5.5	4.4	3.1
30	1.7	1.5	1.2	1.1	---	1.4	9.6	58	13	4.7	4.5	3.1
31	1.7	---	1.2	1.2	---	1.6	---	52	---	4	4.3	---
TOTAL	53.1	46.4	39.8	35.8	30.02	39.2	143.4	769.7	664	190.2	102.3	148.1
MEAN	1.7	1.6	1.3	1.2	1.07	1.3	4.8	24.8	22	6.1	3.3	4.9
AC-FT	105	92	79	71	60	78	284	1530	1320	377	203	294
MAX	2.1	1.8	1.5	1.3	1.3	1.6	9.6	58	43	12	4.6	10
MIN	1.5	1.3	1	1	.94	1	1.6	4.4	13	3.5	2.3	3.1

CAL YR 2002 TOTAL 590.21 MEAN 1.62 MAX 2.8 MIN .72 AC-FT 1170
WTR YR 2003 TOTAL 2262.02 MEAN 6.2 MAX 58 MIN .94 AC-FT 4490

MAX DISCH: 73 CFS AT 19:30 ON May. 30, 2003 GH 4.67 FT. SHIFT 0.19 FT.
MAX GH: 4.67 FT. AT 19:30 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08227000 SAGUACHE CREEK NEAR SAGUACHE, CO

LOCATION.--Lat 38°09'48", long 106°17'24", in SE¼SE¼ sec. 10, T. 45 N., R 6 E., Saguache County, Hydrologic Unit 13010004, on left bank 0.2 Mi downstream from Middle Creek and 10 mi northwest of Saguache.

PERIOD OF RECORD AND DRAINAGE AREA.--595 mi². Aug. 1910-Sept. 1912, Jun. 1914 to current year. Monthly discharge only for some periods. Water-quality data available, Apr. 1993-Sep. 1995.

GAGE.--Graphic water-stage recorder and Sutron satellite monitoring equipment including an air temperature sensor in a metal pipe shelter and well. The existing manned cableway was removed and a new Tacoma bank-operated cableway system was installed at this site in August 2003. Datum of gage is approximately 8,030 ft. (from topographic map).

REMARKS.--Record is complete and reliable. The stage-discharge relation was affected by ice Nov. 28, 2002 through Mar. 23, 2003. Record is good except for periods of ice affected record, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

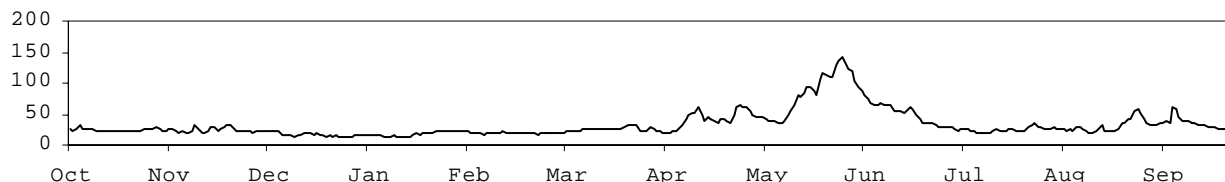
RATING TABLE.--SAGSAGCO16 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	27	21	16	21	19	26	55	123	28	26	42
2	23	27	22	15	22	19	23	49	118	29	26	36
3	26	23	22	16	20	19	21	45	104	28	26	31
4	33	20	21	16	18	20	19	45	95	26	30	33
5	27	22	21	16	18	22	19	46	86	24	27	33
6	27	19	17	15	18	24	20	42	81	26	25	37
7	27	20	16	14	16	22	24	40	74	26	25	36
8	25	21	15	14	18	23	24	39	68	26	24	38
9	24	33	16	14	18	24	25	39	65	23	25	37
10	24	26	14	15	18	25	31	36	65	21	24	62
11	24	19	15	14	20	26	43	37	67	20	28	59
12	23	19	17	14	19	27	50	39	65	19	29	45
13	23	22	19	13	21	26	51	48	64	19	27	39
14	22	28	18	14	20	25	53	55	63	19	22	40
15	22	29	18	14	20	26	60	66	55	20	20	40
16	22	21	16	16	19	27	50	80	54	22	19	36
17	22	27	18	18	19	26	40	77	55	27	21	34
18	22	28	16	16	20	26	46	84	53	23	26	33
19	22	31	16	18	19	27	42	93	56	21	32	32
20	23	33	14	18	18	25	39	92	62	23	24	31
21	23	27	15	19	19	27	36	86	58	26	21	30
22	23	21	14	19	20	26	43	82	47	25	21	30
23	23	22	15	21	19	29	43	105	41	24	23	29
24	25	24	14	22	17	31	38	115	36	24	27	27
25	26	23	13	23	19	32	37	113	35	24	34	27
26	25	22	14	22	19	31	50	109	34	23	34	27
27	27	19	14	21	19	31	62	111	34	29	42	27
28	28	21	14	21	20	23	63	129	31	31	42	26
29	27	22	15	21	---	22	60	137	29	34	54	25
30	22	21	16	21	---	22	60	143	30	29	58	24
31	23	---	15	22	---	28	---	128	---	28	52	---
TOTAL	758	717	511	538	534	780	1198	2365	1848	767	914	1046
MEAN	25	24	17	17	19	25	40	76	62	25	30	35
AC-FT	1500	1420	1010	1070	1060	1550	2380	4690	3670	1520	1810	2070
MAX	33	33	22	23	22	32	63	143	123	34	58	62
MIN	22	19	13	13	16	19	19	36	29	19	19	24
CAL YR 2002	TOTAL	8241.7	MEAN	22.6	MAX	56	MIN	8.1	AC-FT	16350		
WTR YR 2003	TOTAL	11976	MEAN	32.8	MAX	143	MIN	13	AC-FT	23750		

MAX DISCH: 164 CFS AT 16:45 ON May. 30, 2003 GH 2.37 FT. SHIFT 0.03 FT.
MAX GH: 2.4 FT. AT 13:30 ON Mar. 3, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY, CO

08227500 NORTH CRESTONE CREEK NEAR CRESTONE, CO

LOCATION.--Lat 38°00'49", long 105°41'32", Saguache County, Hydrologic Unit 13010003, on right bank in canyon, 1.5 mi. northeast of Crestone, and 3.2 mi. upstream from South Crestone Creek.

DRAINAGE AREA.--10.7 mi².

GAGE.--Graphic water-stage recorder in a timber shelter and well. Data collection and shaft encoder installed June 05, 2003. Altitude of gage is 8,360 ft from topographic map.

REMARKS.--Record is complete and reliable except for Dec. 22-31, 2002 and January 1-13, 2003 when the well was frozen; and Jan. 14, 2003 through March 28, 2003 when the station was closed for the winter. Stage-discharge relation was affected by ice November 12,13,16,27,28 and Dec. 7-21, 2002. Record is good except for periods of no gage-height and ice affected record, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--NOCRESCO10 USED FROM 01-OCT-2002 TO 30-SEP-2003

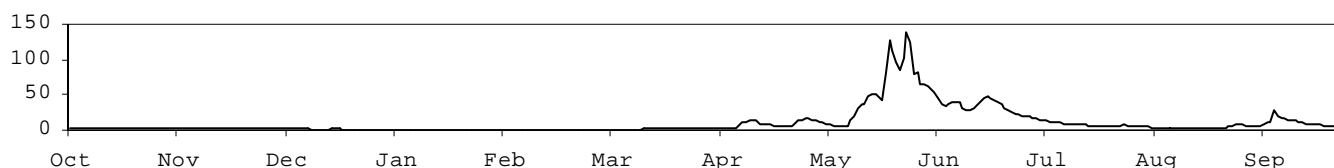
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.3	1.8	.9	1.1	1	2.8	14	65	20	5.7	7.1
2	3.8	2.3	1.6	.84	1.2	1	3.4	13	64	19	5.9	6.4
3	3.8	2.1	1.6	.9	1.1	1	3.3	12	63	18	5.2	6.1
4	3.6	2.2	1.8	1	1	1.1	2.9	11	58	16	4.8	5.8
5	3.4	2.1	1.6	1	1	1.1	2.6	8.9	54	15	4.5	5.4
6	3.1	2.2	1.6	1	1.1	1	2.6	7.7	45	14	4.2	6.3
7	3.1	2.1	1.7	.94	.9	1.1	2.3	6.8	38	13	4.1	9.4
8	2.9	2.1	1.5	.94	.8	1.1	2.1	6.1	34	12	4.2	12
9	2.8	2.2	1.4	.94	.9	1.1	2.9	5.4	38	11	4.2	12
10	2.8	2.1	1.2	1.1	.86	1.2	5.8	5.6	39	11	3.9	27
11	2.6	2.1	1.3	1.2	.9	1.3	10	6.2	41	10	4	21
12	2.6	2.1	1.3	1.1	1	1.4	12	13	39	9.7	4	18
13	2.6	2.1	1.4	1.1	1.1	1.4	13	21	32	9	3.6	16
14	2.5	2.1	1.4	1.2	1	1.5	15	30	27	8.7	3.3	15
15	2.3	2	1.5	1.1	.94	1.5	14	36	27	8.4	3.2	14
16	2.2	2.1	1.5	1	.9	1.7	9.6	38	31	8.3	3.3	13
17	2.2	2.1	1.7	1	1.1	1.7	9.2	48	34	7.6	3.2	11
18	2.2	2.1	1.4	1	1	1.7	8.9	51	41	7.1	3.2	10
19	2.2	2.1	1.1	1	.9	1.7	7.5	50	44	6.6	3	9.5
20	2.2	1.9	.82	1	.8	1.6	6.5	48	48	6.9	2.7	8.9
21	2.1	1.9	.82	1	.9	2	6.2	43	46	6.5	2.5	8.2
22	2.1	1.9	.82	1.1	.9	1.9	6.2	81	43	6.5	2.9	7.6
23	2.3	1.9	.9	1.1	.86	2	5.9	126	40	6.3	3.6	7.1
24	2.3	1.9	.82	1.2	1	2.2	5.4	113	36	6	3.5	6.7
25	2.3	1.9	.76	1.1	1.1	2.4	5.9	95	31	5.7	3.7	6.4
26	2.3	1.9	.76	1	1	2.3	9.8	86	27	5.3	3.8	6.1
27	2.5	1.9	.76	1.1	1	2.2	13	103	25	5.9	3.6	5.8
28	2.3	1.9	.8	1.2	1.1	2.2	14	138	24	6.6	4.6	5.8
29	2.3	1.9	.9	1.1	---	2.2	17	124	22	7.5	6.7	5.5
30	2.2	1.8	.9	1.1	---	2.1	17	78	21	6.8	8.6	5.3
31	2.5	---	.84	1.1	---	2.2	---	82	---	6.1	8.1	---
TOTAL	81.2	61.3	38.3	32.36	27.46	49.9	236.8	1500.7	1177	300.5	131.8	298.4
MEAN	2.6	2	1.24	1.04	.98	1.6	7.9	48.4	39	9.7	4.3	10
AC-FT	161	122	76	64	54	99	470	2980	2330	596	261	592
MAX	3.8	2.3	1.8	1.2	1.2	2.4	17	138	65	20	8.6	27
MIN	2.1	1.8	.76	.84	.8	1	2.1	5.4	21	5.3	2.5	5.3

CAL YR	2002	TOTAL	761.04	MEAN	2.09	MAX	5.6	MIN	.48	AC-FT	1510
WTR YR	2003	TOTAL	3935.72	MEAN	10.8	MAX	138	MIN	.76	AC-FT	7810

MAX DISCH: 196 CFS AT 17:00 ON May 28, 2003 GH 2.88 FT. SHIFT -0.07 FT.
MAX GH: 2.88 FT. AT 17:00 ON May 28, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

SOUTH CRESTONE CREEK near CRESTONE, CO

LOCATION.--Lat 37°58'55", long 105°42'41", in NE1/4SW1/4 Sec. 12, T.43 N., R.11 E., NMPM, Saguache Co., on right bank, 1 mile SE of Crestone.

DRAINAGE AREA.--4.6 mi².

GAGE.--2' diameter CMP installed as stilling well with small shelter on top for equipment at an existing 2.5' Parshall flume. Satellite monitoring system installed and put into operation Apr. 6, 1999. Elevation of gage is 7740 ft.

REMARKS.--Gage-height data complete and reliable except for the following periods: Nov. 19, 2002 through Mar. 26, 2003 when the station was closed for the winter. Oct. 3, 4, 7, 8, 24-26, Nov. 5-18, 2002, when the station was isolated for all or partial days. There was no flow for 155 days this water year. Record good, except for periods of missing or unreliable gage-height data, which is poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--SOUCRECO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

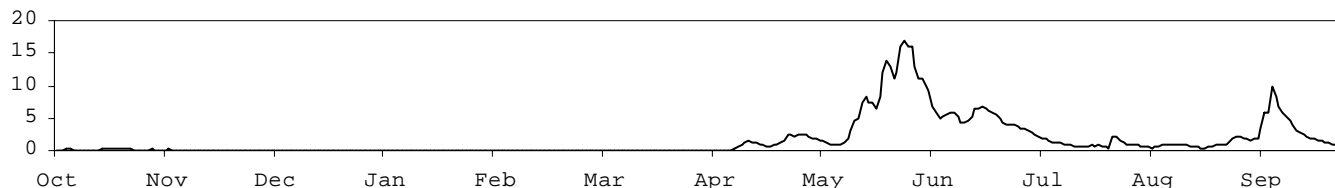
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.14	0	0	0	0	0	2.4	13	3.4	.95	2.2
2	0	.16	0	0	0	0	0	2.1	11	3.3	.89	2
3	.11	.13	0	0	0	0	0	2	11	3	.79	1.8
4	.23	.11	0	0	0	0	0	1.9	9.9	2.7	.67	1.6
5	.23	.07	0	0	0	0	0	1.6	9.3	2.4	.55	1.7
6	.13	.04	0	0	0	0	0	1.4	6.9	2.2	.47	2
7	.07	.02	0	0	0	0	0	1.1	5.9	1.9	.45	3.5
8	0	.04	0	0	0	0	0	1	4.9	1.7	.48	6
9	0	.04	0	0	0	0	0	.94	5.2	1.4	.55	6
10	0	.02	0	0	0	0	0	.9	5.5	1.3	.81	10
11	0	.02	0	0	0	0	.3	.85	5.9	1.2	.95	8.4
12	0	.02	0	0	0	0	.72	1.2	5.8	1.1	1	6.8
13	0	.02	0	0	0	0	1	2	5.1	.94	.88	5.7
14	.18	.02	0	0	0	0	1.3	3	4.3	.82	.86	5.1
15	.19	.01	0	0	0	0	1.5	4.7	4.2	.77	.89	4.5
16	.2	0	0	0	0	0	1.1	4.9	4.7	.73	.9	3.9
17	.2	0	0	0	0	0	1.1	7.3	5.3	.71	.85	3.2
18	.24	0	0	0	0	0	.93	8.4	6.4	.68	.74	2.8
19	.22	0	0	0	0	0	.83	7.5	6.6	.61	.6	2.4
20	.22	0	0	0	0	0	.66	7.4	6.8	.65	.5	2.2
21	.2	0	0	0	0	0	.76	6.4	6.6	.77	.37	1.9
22	.16	0	0	0	0	0	.8	8.4	6.1	.74	.41	1.7
23	.13	0	0	0	0	0	.89	12	5.9	.83	.59	1.5
24	.08	0	0	0	0	0	1.1	14	5.4	.66	.61	1.4
25	0	0	0	0	0	0	1.4	13	4.9	.5	.89	1.2
26	.06	0	0	0	0	0	2.5	11	4.4	.46	.81	1.1
27	.12	0	0	0	0	0	2.4	12	4.1	2.2	.77	1
28	.16	0	0	0	0	0	2.1	16	4	2.3	.9	.95
29	.13	0	0	0	---	0	2.5	17	3.9	1.4	1.5	.85
30	.11	0	0	0	---	0	2.6	16	3.7	1.3	2	.76
31	.13	---	0	0	---	0	---	16	---	1	2.3	---
TOTAL	3.5	.86	0	0	0	0	26.49	204.39	186.7	43.67	25.93	94.16
MEAN	.11	.03	0	0	0	0	.88	6.59	6.2	1.41	.84	3.14
AC-FT	6.9	1.7	0	0	0	0	53	405	370	87	51	187
MAX	.24	.16	0	0	0	0	2.6	17	13	3.4	2.3	10
MIN	0	0	0	0	0	0	0	.85	3.7	.46	.37	.76

CAL YR 2002 TOTAL 6.26 MEAN 0.02 MAX 0.24 MIN 0 AC-FT 12
WTR YR 2003 TOTAL 585.7 MEAN 1.6 MAX 17 MIN 0 AC-FT 1160

MAX DISCH: 19.6 CFS AT 01:15 ON May. 29, 2003 GH 1.53 FT. SHIFT 0.01 FT.
MAX GH: 1.53 FT. AT 01:15 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

WILLOW CREEK near CRESTONE, CO

LOCATION.--Lat 37°57'29", long 105°41'59", in SE1/4NW1/4 Sec. 20, T.43 N., R.12 E., NMPM, Saguache Co. on right bank, 2 miles SE of Crestone.

DRAINAGE AREA.--8.0 mi².

GAGE.--Station installed in 1999 with a 2' diameter CMP stilling well with a small steel box structure on top for equipment. Satellite monitoring system installed and put into operation April 1, 1999. Elevation of gage is 7740 ft.

REMARKS.--Gage-height record complete and reliable for the year except Nov. 17-18, 2002 when float affected by ice in well; and Nov. 19, 2002 to Mar. 31, 2003 when the station was closed for the winter. Record fair, except for periods of unreliable and missing stage data, which is poor. Station maintained and record developed by Div. III Hydrographic Staff.

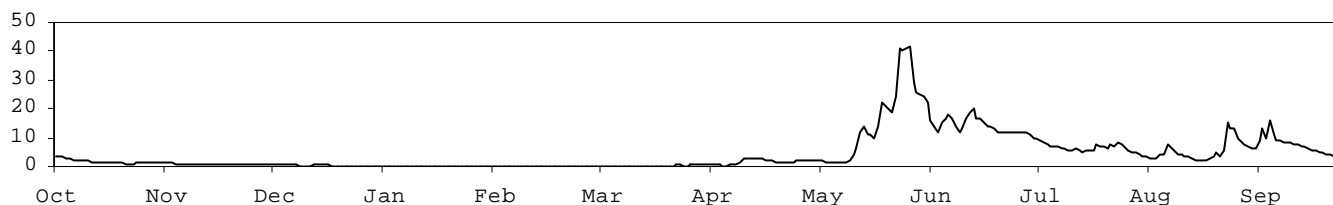
RATING TABLE.--WILCRECO2 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	1.1	.52	.26	.28	.16	.44	2.3	29	12	5.9	10
2	3.3	1.1	.48	.22	.32	.16	.51	2.3	26	12	5.2	8.2
3	3.2	1.1	.52	.26	.2	.16	.49	2.3	25	12	4.6	7.3
4	2.9	.94	.5	.28	.18	.2	.47	2.1	24	11	4	6.9
5	2.7	.84	.46	.3	.18	.18	.43	1.9	22	10	3.6	6.2
6	2.4	.78	.38	.28	.16	.18	.4	1.8	16	9.5	3.2	6.4
7	2.1	.75	.36	.24	.12	.2	.38	1.6	14	8.9	2.9	9.1
8	2	.75	.38	.24	.14	.2	.27	1.5	12	8.2	2.9	13
9	1.9	.75	.32	.26	.14	.2	.3	1.3	15	7.8	3.1	9.9
10	1.8	.73	.32	.28	.16	.22	.5	1.2	17	7	4.2	16
11	1.7	.63	.34	.26	.18	.24	.68	1.1	18	7	4.4	11
12	1.7	.44	.34	.22	.22	.24	.83	1.1	17	6.7	7.8	9.2
13	1.6	.56	.36	.22	.26	.26	1.5	1.2	14	6.4	6.7	8.7
14	1.5	.61	.36	.24	.24	.28	2.5	2	12	6.2	5.4	8.3
15	1.5	.56	.36	.22	.22	.26	2.9	4.5	13	5.9	4.5	8.3
16	1.4	.5	.38	.2	.2	.26	3.1	6.3	17	5.9	4	8.1
17	1.3	.58	.42	.2	.24	.22	3	12	19	6.1	3.6	7.7
18	1.3	.58	.32	.18	.22	.2	2.8	14	20	5.6	3.3	7.5
19	1.1	.58	.26	.2	.18	.22	2.6	11	17	5.2	2.9	7
20	1.1	.66	.26	.2	.16	.22	2.3	11	17	5.4	2.4	6.8
21	.99	.7	.28	.22	.18	.24	2.1	10	15	5.5	2.3	6.4
22	.94	.66	.26	.22	.18	.24	1.9	14	14	5.6	2.3	5.8
23	1	.72	.3	.26	.16	.3	1.7	22	14	7.5	2.4	5.4
24	1.1	.7	.26	.26	.2	.34	1.5	21	13	7.1	2.6	5
25	1.2	.62	.22	.24	.22	.34	1.5	20	12	7	3.8	4.7
26	1.2	.4	.2	.2	.2	.38	1.5	19	12	6.5	4.9	4.4
27	1.2	.38	.22	.24	.2	.36	1.6	24	12	7.5	3.8	4
28	1.2	.44	.24	.28	.2	.32	1.7	41	12	7	5.4	3.7
29	1.3	.52	.26	.24	---	.32	1.9	40	12	8	15	3.5
30	1.2	.5	.24	.28	---	.38	2.2	41	12	7.7	13	3.3
31	1.1	---	.26	.28	---	.42	---	42	---	6.8	13	---
TOTAL	52.23	20.18	10.38	7.48	5.54	7.9	44	376.5	492	235	153.1	221.8
MEAN	1.68	.67	.33	.24	.2	.25	1.47	12.1	16	7.6	4.9	7.4
AC-FT	104	40	21	15	11	16	87	747	976	466	304	440
MAX	3.3	1.1	.52	.3	.32	.42	3.1	42	29	12	15	16
MIN	.94	.38	.2	.18	.12	.16	.27	1.1	12	5.2	2.3	3.3
CAL YR 2002	TOTAL	279.52	MEAN	0.77	MAX	3.6	MIN	0	AC-FT	554		
WTR YR 2003	TOTAL	1626.11	MEAN	4.46	MAX	42	MIN	.12	AC-FT	3230		

MAX DISCH: 63.9 CFS AT 22:45 ON May. 30, 2003 GH 3.5 FT. SHIFT -0.13 FT.
MAX GH: 3.5 FT. AT 22:45 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

SPANISH CREEK near CRESTONE, CO

LOCATION.--Lat 37°57'10", long 105°39'42", in NE1/4SW1/4 Sec. 21, T.43 N., R.12 E., NMPM, Saguache Co., on left bank, 3 1/2 miles SE of Crestone.

DRAINAGE AREA.--2.4 mi².

GAGE.--Station installed in 1999 on a 2' diameter CMP stilling well with a small steel box on top for equipment. Satellite monitoring system was installed and in operation on April 1, 1999. Elevation of gage is 8240 ft.

REMARKS.--Record is complete and reliable except for Nov. 12-18, 2002, when the stilling well was froze; and Nov. 19, 2002 through Mar. 31, 2003 when the station was closed for winter; and Jun. 5-6, 2003 when the inlets were plugged. The stage-discharge relation was affected by ice on Nov. 11, 2002. Record is fair due to undesirable control conditions, except for periods of ice affected, missing, and unreliable stage data, which is poor. Station maintained and record developed by Div. III Hydrographic Staff.

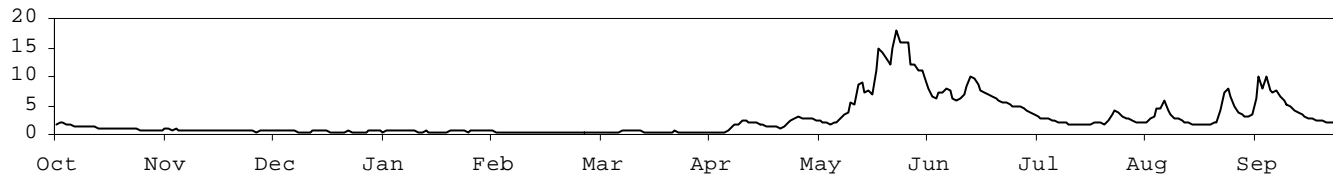
RATING TABLE.--SPACRECO03 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.91	.6	.54	.56	.31	.43	2.9	12	4.8	2.8	4.9
2	1.9	.89	.58	.5	.6	.31	.51	2.9	12	4.8	2.6	3.9
3	1.9	.82	.6	.56	.46	.31	.5	2.6	11	4.6	2.4	3.4
4	1.7	.89	.58	.6	.42	.37	.42	2.7	11	4.1	2.2	3.2
5	1.7	.81	.58	.62	.42	.36	.39	2.4	9.9	3.9	2	3.1
6	1.5	.83	.54	.6	.38	.36	.36	2.3	7.8	3.5	1.9	3.4
7	1.4	.86	.52	.52	.26	.42	.35	2	6.6	3.2	2	6.3
8	1.3	.81	.54	.52	.27	.44	.33	1.9	6.3	2.9	2.6	9.9
9	1.3	.82	.5	.54	.27	.46	.38	1.8	7.2	2.8	3.2	8.1
10	1.3	.79	.5	.58	.28	.5	.61	1.9	7.4	2.6	4.4	9.9
11	1.3	.66	.5	.54	.3	.56	1.3	1.9	7.8	2.5	4.6	7.7
12	1.3	.56	.5	.5	.33	.56	1.6	2.7	7.5	2.3	6	7.3
13	1.2	.62	.54	.5	.37	.62	1.7	3.5	6.3	2.2	4.3	7.5
14	1.1	.66	.54	.52	.36	.66	2.5	3.9	5.7	2	3.4	6.6
15	1.1	.6	.54	.5	.35	.62	2.5	5.6	6.1	1.9	2.9	5.7
16	1.1	.54	.58	.48	.33	.6	2.1	5.3	7	1.8	2.6	5.1
17	.99	.58	.62	.48	.36	.48	2	8.5	8.3	1.7	2.3	4.7
18	1	.58	.5	.46	.34	.42	1.9	8.8	10	1.7	2.1	4.2
19	1	.58	.45	.5	.31	.44	1.8	7.1	9.5	1.6	2	3.8
20	1	.64	.45	.5	.3	.44	1.6	7.6	8.5	1.7	1.8	3.4
21	.89	.66	.49	.52	.32	.44	1.5	6.9	7.6	1.6	1.7	3.1
22	.89	.64	.47	.52	.32	.42	1.5	11	7.3	1.8	1.7	2.9
23	.91	.68	.54	.56	.3	.48	1.4	15	7	2	1.7	2.7
24	.94	.66	.48	.56	.36	.5	1.4	14	6.5	2.1	1.8	2.5
25	.85	.62	.44	.54	.38	.5	1.2	13	6.1	1.9	1.8	2.4
26	.83	.52	.42	.5	.34	.52	1.5	12	5.7	1.8	1.9	2.3
27	.82	.5	.46	.54	.36	.38	2.1	15	5.6	2.4	2	2.2
28	.79	.54	.48	.58	.34	.31	2.5	18	5.6	3.6	4	2.1
29	.83	.6	.54	.52	---	.3	2.8	16	5.2	4.3	7.1	2
30	.77	.6	.52	.56	---	.33	3.1	16	5	3.8	7.8	2
31	.81	---	.54	.56	---	.37	---	16	---	3.2	6.6	---
TOTAL	36.12	20.47	16.14	16.52	9.99	13.79	42.28	231.2	229.5	85.1	96.2	136.3
MEAN	1.17	.68	.52	.53	.36	.44	1.41	7.5	7.7	2.8	3.1	4.5
AC-FT	72	41	32	33	20	27	84	459	455	169	191	270
MAX	1.9	.91	.62	.62	.6	.66	3.1	18	12	4.8	7.8	9.9
MIN	.77	.5	.42	.46	.26	.3	.33	1.8	5	1.6	1.7	2
CAL YR 2002	TOTAL	268.92	MEAN	0.74	MAX	2.3	MIN	0.18	AC-FT	533		
WTR YR 2003	TOTAL	933.61	MEAN	2.56	MAX	18	MIN	.26	AC-FT	1850		

MAX DISCH: 22 CFS AT 22:30 ON May. 27, 2003 GH 3.82 FT. SHIFT -0.13 FT.
MAX GH: 3.82 FT. AT 22:30 ON May. 27, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

08229500 COTTONWOOD CREEK near CRESTONE, CO

LOCATION.--Lat 37°56'51", long 105°39'05", in SE1/4NE1/4 Sec. 22, T.43 N., R.12 E., NMPM, Saguache Co., on left bank, 5 miles SE of Crestone.

DRAINAGE AREA.--5.0 mi².

GAGE.--Electronic shaft encoder and Data Collection Platform (DCP) with satellite transmitter in a 3 ft. by 3 ft. timber shelter and well. This gage is the original gage put in by the USGS in 1936.

REMARKS.--Gage-height record is complete and reliable except for Nov. 12-18, 2002 when well was frozen, and Nov. 19, 2002 through Mar. 31, 2003 when station was closed for the winter. The stage-discharge relation was affected by ice Nov. 10, 11, 2002. Record is good to fair except for periods of no gage-height data, which is poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--COCRESCO04 USED FROM 01-OCT-2002 TO 30-SEP-2003

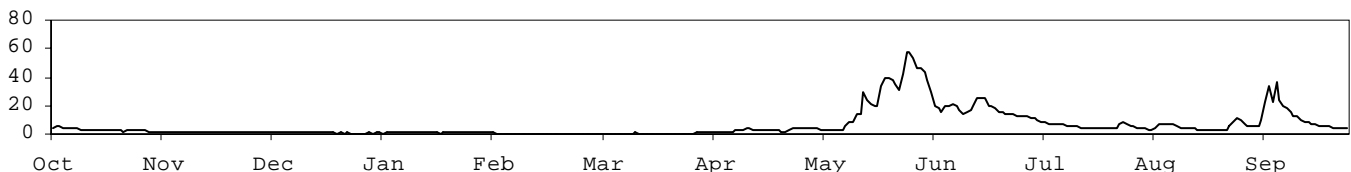
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	2	1.4	.72	.76	.5	.88	4.1	47	12	5	7.6
2	5	1.9	1.3	.68	.8	.5	1.1	4	47	12	4.6	6.3
3	5.1	1.8	1.3	.74	.66	.5	1.1	3.6	43	11	4.1	5.7
4	4.7	1.9	1.2	.8	.56	.58	.95	3.7	38	11	3.8	5.2
5	4.5	1.6	1.1	.84	.56	.56	.87	3.5	30	10	3.5	6
6	4.1	1.6	1	.8	.52	.56	.85	3.2	20	9	3.3	9.2
7	4	1.7	.9	.72	.42	.6	.83	2.9	18	8.2	4.2	22
8	3.8	1.7	.9	.72	.44	.6	.88	2.8	16	7.5	6.6	33
9	3.5	1.7	.8	.76	.44	.62	.93	2.6	19	7.2	7.1	23
10	3.2	1.5	.8	.8	.46	.66	1.6	2.7	20	7.1	7.7	37
11	3.1	1.4	.8	.76	.48	.68	2.5	2.9	21	6.7	7	24
12	3	1.3	.84	.72	.5	.68	2.9	5.1	19	6.4	6.9	19
13	3	1.4	.88	.72	.54	.7	2.9	8.1	17	6	5.7	18
14	2.9	1.5	.88	.76	.52	.72	4.1	9.1	14	5.6	4.8	16
15	2.8	1.4	.88	.76	.5	.7	4.3	14	16	5.2	4.3	13
16	2.6	1.3	.92	.72	.46	.7	3.3	14	17	5.1	4	12
17	2.6	1.4	.96	.72	.52	.64	3.2	29	20	4.8	3.8	10
18	2.6	1.4	.82	.68	.5	.6	2.9	24	25	4.6	3.6	9
19	2.3	1.4	.72	.72	.48	.6	2.6	21	25	4.5	3.1	8.1
20	2.2	1.5	.7	.72	.48	.6	2.4	20	25	4.7	2.9	7.4
21	2.1	1.6	.74	.76	.5	.62	2.3	19	20	4.5	2.8	6.8
22	2.2	1.5	.7	.76	.5	.6	2.3	33	19	4.3	2.8	6.3
23	2.3	1.6	.76	.82	.46	.64	2.2	39	18	4.6	3	5.9
24	2.3	1.5	.7	.82	.54	.66	2	40	16	4.6	3.1	5.5
25	2.2	1.5	.66	.78	.58	.66	2	38	15	4.2	2.9	5.3
26	2.2	1.3	.62	.74	.54	.7	3.1	35	14	3.9	2.9	4.8
27	2.2	1.2	.66	.78	.54	.64	4	31	14	4.6	2.8	4.6
28	2.1	1.3	.68	.82	.54	.58	4.3	42	14	7	5.4	4.4
29	2.1	1.4	.72	.74	---	.58	4.5	58	13	7.8	8.3	4.2
30	2	1.4	.68	.8	---	.64	4.5	58	12	6.6	11	4.1
31	2	---	.72	.76	---	.74	---	53	---	5.8	10	---
TOTAL	93.1	45.7	26.74	23.44	14.8	19.36	72.29	626.3	652	206.5	151	343.4
MEAN	3	1.5	.86	.76	.53	.62	2.41	20.2	22	6.7	4.9	11.4
AC-FT	185	91	53	46	29	38	143	1240	1290	410	300	681
MAX	5.1	2	1.4	.84	.8	.74	4.5	58	47	12	11	37
MIN	2	1.2	.62	.68	.42	.5	.83	2.6	12	3.9	2.8	4.1

CAL YR 2002	TOTAL	634.38	MEAN	1.74	MAX	6.1	MIN	0.62	AC-FT	1260
WTR YR 2003	TOTAL	2274.63	MEAN	6.23	MAX	58	MIN	0.42	AC-FT	4510

MAX DISCH: 80.6 CFS AT 19:15 ON May. 28, 2003 GH 2.95 FT. SHIFT 0 FT.
MAX GH: 2.95 FT. AT 19:15 ON May. 28, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

DEADMAN CREEK near CRESTONE, CO

LOCATION.--Lat 37°53'05", long 105°38'47", in NE1/4, SE1/4, Sec. 3, T.42 N., R.12 E., NMPM, Saguache Co., on right bank 8 miles SE of Crestone.

DRAINAGE AREA.--8.4 mi².

GAGE.--Station installed on a 2' diameter CMP stilling well with a small steel box on top for equipment at a 6' Parshall flume already on site in 1998. Satellite monitoring equipment installed in 1999. Elevation of gage is 7800 ft.

REMARKS.--Record is complete and reliable except for the following periods: November 15-20, 2002 when the well was frozen; and November 21, 2002 through April 2, 2003 when the station was closed for the winter. The gage height was not representative of the flow May 22 through June 1, 2003, due to some water bypassing the gage. A large tree limb was caught just above the flume during most of this period, causing the water to back up and spill out above the flume and bypass the gage. Even after the limb was removed, there was still a small amount of water bypassing the gage during high water. The amount of water bypassing was estimated by hydro observations. There was no flow for 142 days this water year. Records are fair because of the low number of measurements, except for periods of no gage height record and periods when the gage height was not representative of the flow, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

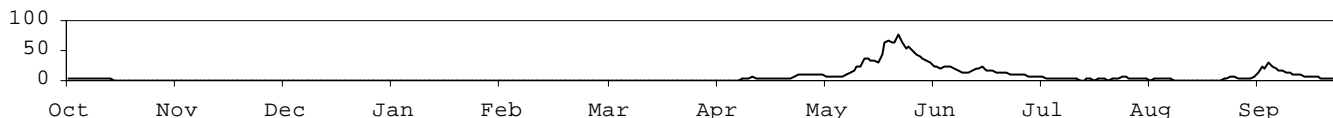
RATING TABLE.--DEDCRECO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	.45	0	0	0	0	0	9.3	42	9.1	4.8	4.2
2	3.8	.43	0	0	0	0	0	9.5	39	8.5	3.9	3.6
3	3.9	.34	0	0	0	0	0	8.7	36	7.9	3.2	3.4
4	3.6	.29	0	0	0	0	0	8.8	35	7.1	2.7	3.2
5	3.3	.28	0	0	0	0	0	8.6	31	6.4	2.2	3.7
6	3	.27	0	0	0	0	0	8.2	24	5.8	1.7	8.3
7	2.7	.29	0	0	0	0	0	7.5	23	5.2	1.6	13
8	2.6	.27	0	0	0	0	0	6.8	19	4.4	2.5	25
9	2.4	.29	0	0	0	0	0	6.2	22	4	2.3	19
10	2.2	.24	0	0	0	0	.06	6.3	22	3.6	2.7	31
11	2	.22	0	0	0	0	1.6	6.2	22	3.3	2.3	24
12	1.7	.4	0	0	0	0	2.4	10	21	2.9	2.2	20
13	1.7	.65	0	0	0	0	2.7	15	17	2.6	1.9	18
14	1.6	.28	0	0	0	0	4.9	17	15	2.2	1.5	16
15	1.5	.2	0	0	0	0	5.7	24	15	2.1	1.4	14
16	1.3	.15	0	0	0	0	3.7	23	15	2.2	1.4	12
17	1.2	.1	0	0	0	0	3.5	37	16	2	1.4	11
18	1.1	.05	0	0	0	0	3.3	36	19	1.6	1.4	9.8
19	1	0	0	0	0	0	3.4	33	19	1.3	1.1	8.8
20	.93	0	0	0	0	0	2.9	33	23	1.9	.81	7.8
21	.88	0	0	0	0	0	2.8	31	18	1.8	.65	7
22	.79	0	0	0	0	0	3	45	17	1.5	1	6.2
23	.81	0	0	0	0	0	2.8	63	16	3	1.3	5.6
24	.88	0	0	0	0	0	2.4	67	15	3.3	1.4	5.1
25	.77	0	0	0	0	0	2.4	65	13	2.1	1.6	4.7
26	.73	0	0	0	0	0	4.6	65	12	1.5	1.5	4.3
27	.84	0	0	0	0	0	7.4	76	12	2.3	1.4	4
28	.74	0	0	0	0	0	8.6	65	11	3.2	1.9	3.7
29	.69	0	0	0	---	0	9.4	53	10	3.7	4.6	3.4
30	.54	0	0	0	---	0	10	56	9.9	5.2	5.2	3.1
31	.52	---	0	0	---	0	---	50	---	6.3	5.3	---
TOTAL	52.82	5.2	0	0	0	0	87.56	950.1	608.9	118	68.86	302.9
MEAN	1.7	.17	0	0	0	0	2.92	30.6	20.3	3.8	2.22	10.1
AC-FT	105	10	0	0	0	0	174	1880	1210	234	137	601
MAX	3.9	.65	0	0	0	0	10	76	42	9.1	5.3	31
MIN	.52	0	0	0	0	0	0	6.2	9.9	1.3	.65	3.1
CAL YR 2002	TOTAL	118.9	MEAN	0.33	MAX	5.1	MIN	0	AC-FT	236		
WTR YR 2003	TOTAL	2194.34	MEAN	6.01	MAX	76	MIN	0	AC-FT	4350		

MAX DISCH: 87.5 CFS AT 19:30 ON May. 27, 2003 GH 1.91 FT. SHIFT 0.34 FT.
MAX GH: 1.91 FT. AT 19:30 ON May. 27, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

LITTLE SPRING CREEK at MEDANO RANCH NEAR MOSCA, CO

LOCATION.--Lat 37°42'49", long 105°38'55", in Alamosa county, in the NE¼SW¼, sec. 15, T.40 N., R.12 E., New Mexico Principal Meridian.

DRAINAGE AREA AND PERIOD OF RECORD.--0.2 mi². Flow primarily due to groundwater accretions. First record produced for water year 2000.

GAGE.--Shelter and stilling well made of 30-inch smooth steel pipe, connected to 2-foot Parshall flume by small intake pipe. Flume is in fair to good condition. Recorder is Stevens data logger. Outside staff gage attached to flume.

REMARKS.--Record was complete and reliable except for December 19, 2002 to March 14, 2003 when the well was frozen. Gage heights were affected by ice November 26-28, 30, December 2, 9-16, 18, 2002, and March 28, April 8, 2003. Record good for periods of gage-height record, fair for the other periods. Station maintained and records developed and Division III Hydrographic Staff.

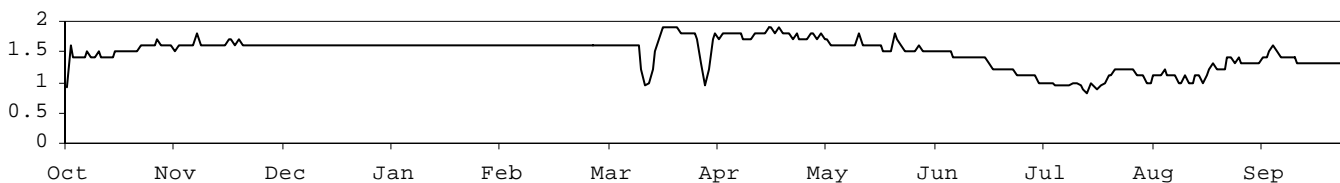
RATING TABLE.--LITSPGCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	1.5	1.6	1.6	1.6	1.6	.95	1.8	1.6	1.1	1.2	1.3
2	1.6	1.6	1.6	1.6	1.6	1.6	1.2	1.8	1.5	1.1	1.1	1.3
3	1.4	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.5	1.1	1.1	1.3
4	1.4	1.6	1.6	1.6	1.6	1.6	1.8	1.8	1.5	1.1	1.1	1.3
5	1.4	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.5	1	1	1.3
6	1.4	1.6	1.6	1.6	1.6	1.6	1.8	1.7	1.5	1	1	1.3
7	1.5	1.8	1.6	1.6	1.6	1.6	1.8	1.6	1.5	1	1.1	1.4
8	1.4	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.5	1	1.1	1.4
9	1.4	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.5	.99	1.1	1.5
10	1.5	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.5	.96	1.2	1.6
11	1.4	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.4	.95	1.1	1.5
12	1.4	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.4	.94	1.1	1.4
13	1.4	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.4	.94	1.1	1.4
14	1.4	1.6	1.6	1.6	1.6	1.2	1.7	1.6	1.4	.94	1	1.4
15	1.5	1.6	1.6	1.6	1.6	.94	1.8	1.8	1.4	.98	1	1.4
16	1.5	1.7	1.6	1.6	1.6	.97	1.8	1.6	1.4	.98	1.1	1.4
17	1.5	1.7	1.6	1.6	1.6	1.2	1.8	1.6	1.4	.96	1	1.3
18	1.5	1.6	1.6	1.6	1.6	1.5	1.8	1.6	1.4	.87	1	1.3
19	1.5	1.7	1.6	1.6	1.6	1.7	1.9	1.6	1.4	.82	1.1	1.3
20	1.5	1.6	1.6	1.6	1.6	1.9	1.9	1.6	1.4	1	1.1	1.3
21	1.5	1.6	1.6	1.6	1.6	1.9	1.8	1.6	1.3	.93	1	1.3
22	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.5	1.2	.89	1.1	1.3
23	1.6	1.6	1.6	1.6	1.6	1.9	1.8	1.5	1.2	.94	1.2	1.3
24	1.6	1.6	1.6	1.6	1.6	1.9	1.8	1.5	1.2	1	1.3	1.3
25	1.6	1.6	1.6	1.6	1.6	1.8	1.8	1.8	1.2	1.1	1.2	1.3
26	1.6	1.6	1.6	1.6	1.6	1.8	1.7	1.7	1.2	1.1	1.2	1.3
27	1.7	1.6	1.6	1.6	1.6	1.8	1.8	1.6	1.2	1.2	1.2	1.3
28	1.6	1.6	1.6	1.6	1.6	1.8	1.7	1.5	1.2	1.2	1.4	1.3
29	1.6	1.6	1.6	1.6	---	1.8	1.7	1.5	1.1	1.2	1.4	1.3
30	1.6	1.6	1.6	1.6	---	1.7	1.7	1.5	1.1	1.2	1.3	1.3
31	1.6	---	1.6	1.6	---	1.3	---	1.5	---	1.2	1.4	---
TOTAL	46.13	48.4	49.6	49.6	44.8	49.81	51.95	50.3	41	31.69	35.3	40.4
MEAN	1.49	1.6	1.6	1.6	1.6	1.61	1.73	1.6	1.4	1.02	1.1	1.4
AC-FT	91	96	98	98	89	99	103	100	81	63	70	80
MAX	1.7	1.8	1.6	1.6	1.6	1.9	1.9	1.8	1.6	1.2	1.4	1.6
MIN	.93	1.5	1.6	1.6	1.6	.94	.95	1.5	1.1	.82	1	1.3
CAL YR 2002	TOTAL	541.23	MEAN	1.48	MAX	2.4	MIN	.91	AC-FT	1070		
WTR YR 2003	TOTAL	538.98	MEAN	1.48	MAX	1.9	MIN	.82	AC-FT	1070		

MAX DISCH: 3.62 CFS AT 18:00 ON Nov. 7, 2002 GH 0.63 FT. SHIFT -0.03 FT.
MAX GH: 0.63 FT. AT 18:00 ON Nov. 7, 2002

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY

BIG SPRING CREEK at MEDANO RANCH near GREAT SAND DUNES NATIONAL MONUMENT

LOCATION.--Lat 37°44'03", long 105°39'50", in NE ¼ NW ¼ Sec. 9, T.40 N., R.12 E., NMPM, Alamosa Co., on left bank approximately ¼ mile above Los Ojos Diversion.

DRAINAGE AREA AND PERIOD OF RECORD.--0.3 mi². First record produced in 1999. Flow primarily due to groundwater accretions.

GAGE.--Two and one-half foot diameter smooth pipe serves as stilling well and instrument shelter. Top of shelter a couple inches above ground level. Recorder is Stevens data logger. Intake pipe attached to stilling well and to 4-foot Parshall Flume. Staff gage attached to flume. Elevation of gage is 7580 ft.

REMARKS.--Record is complete and reliable for the water year, except for the following periods: December 20, 2002 through March 16, 2003 when the well was frozen; March 17 through April 11, 2003 when the datalogger data was unreliable; and October 5 through November 8, and Nov. 16, 2002 when there was missing data. Stage-discharge relation affected by ice November 12, 15, 17-19, 26-28, 30, and December 2, 9-16, 18, 19, 2002. Record good, except for periods described above, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--BIGSPGCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

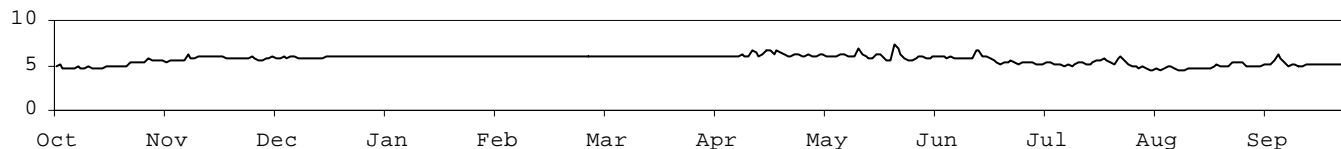
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5	5.4	5.9	6	6	6	6	6.2	6.1	5.3	4.8	5
2	5.2	5.6	5.8	6	6	6	6	6	5.9	5.3	4.7	4.9
3	4.7	5.6	5.7	6	6	6	6	6	5.7	5.3	4.8	5
4	4.7	5.6	5.9	6	6	6	6	6.2	5.7	5.2	4.6	4.9
5	4.7	5.6	5.8	6	6	6	6	6.2	5.9	5.2	4.4	4.8
6	4.7	5.6	5.9	6	6	6	6	6.1	6	5.2	4.4	5.1
7	5	6.2	5.9	6	6	6	6	6.1	5.9	5.3	4.6	5.2
8	4.7	5.8	5.8	6	6	6	6	6.1	5.9	5.3	4.5	5.1
9	4.7	5.8	5.8	6	6	6	6	6.1	5.8	5.2	4.6	5.5
10	5	5.9	5.8	6	6	6	6	6.2	5.9	5.2	4.8	6.3
11	4.7	5.9	5.8	6	6	6	6	6.2	5.8	5.1	4.8	5.7
12	4.7	6	5.8	6	6	6	6.2	5.9	5.7	5	4.6	5.3
13	4.7	6	5.8	6	6	6	6.1	6	5.7	5.1	4.5	5
14	4.7	6	5.8	6	6	6	6.1	6	5.7	5	4.5	5.2
15	5	6	5.8	6	6	6	6.7	6.8	5.7	5.2	4.5	5.1
16	5	6	6	6	6	6	6.4	6.3	5.7	5.3	4.6	5
17	5	6	6	6	6	6	6	5.9	6.6	5.4	4.6	5
18	5	5.8	6	6	6	6	6.2	5.8	6.7	5.2	4.7	5.1
19	5	5.8	6	6	6	6	6.7	5.8	6.1	5.1	4.7	5.1
20	5	5.8	6	6	6	6	6.6	6.2	6	5.4	4.6	5.1
21	5	5.8	6	6	6	6	6.3	6.2	5.8	5.6	4.6	5.1
22	5.4	5.8	6	6	6	6	6.6	5.7	5.5	5.5	4.7	5.2
23	5.4	5.8	6	6	6	6	6.4	5.6	5.3	5.8	4.9	5.1
24	5.4	5.8	6	6	6	6	6.3	5.6	5.1	5.6	5.2	5.1
25	5.4	5.9	6	6	6	6	6.1	7.4	5.3	5.3	4.9	5.1
26	5.4	5.8	6	6	6	6	6	6.8	5.4	5.2	5	5.1
27	5.8	5.6	6	6	6	6	6.2	6.2	5.5	5.7	5	5.1
28	5.6	5.6	6	6	6	6	6.2	5.8	5.4	6	5.4	5.1
29	5.6	5.7	6	6	---	6	6.1	5.6	5.2	5.5	5.4	5.1
30	5.6	5.8	6	6	---	6	6.1	5.6	5.4	5.2	5.4	5.2
31	5.6	---	6	6	---	6	---	5.7	---	4.9	5.4	---
TOTAL	157.4	174	183.3	186	168	186	185.3	188.3	172.4	164.6	148.2	154.6
MEAN	5.1	5.8	5.9	6	6	6	6.2	6.1	5.8	5.3	4.8	5.2
AC-FT	312	345	364	369	333	369	368	373	342	326	294	307
MAX	5.8	6.2	6	6	6	6	6.7	7.4	6.7	6	5.4	6.3
MIN	4.7	5.4	5.7	6	6	6	6	5.6	5.1	4.9	4.4	4.8
CAL YR 2002	TOTAL	2121.5	MEAN	5.81	MAX	7.8	MIN	4.5	AC-FT	4210		
WTR YR 2003	TOTAL	2068.1	MEAN	5.67	MAX	7.4	MIN	4.4	AC-FT	4100		

MAX DISCH: 13.1 CFS AT 18:00 ON May. 25, 2003 GH 1.01 FT. SHIFT -0.13 FT.

MAX GH: 1.16 FT. AT 11:00 ON Dec. 19, 2002

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY, CO

08230500 CARNERO CREEK NEAR LA GARITA, CO

LOCATION.--Lat 37°51'35", long 106°19'08", in SW¼NE¼ sec 28, T.42 N., R.6 E., (projected) Saguache County, Hydrologic Unit 13010004, on left bank 4.5 mi. northwest of La Garita and 6.6 mi. downstream from North Fork.

DRAINAGE AREA.--117 mi².

GAGE.--Water-stage recorder and Sutron Satellite system in a 4' diameter well and shelter. Datum of gage is 8,150 ft. from topographic map.

REMARKS.--Record is complete and reliable except for the following periods: November 25-30, Dec. 1-10, 2002, and March 29, 2003, when ice in the well was affecting the floats. December 11, 2002 to March 19, 2003, when the station was closed for the winter. July 9, 10, 2003 when the station was isolated. Gage-height affected by ice November 23, 24, 2002, and March 20, 22-24, 2003. Gage-heights were not representative of the flow July 5-8, 2003, due to problems with the control. There was no flow July 12, 14, 15, 2003. Record good, except that for periods of missing and ice-affected data, which is poor. Station maintained and record developed by the Division III Hydrographic Staff.

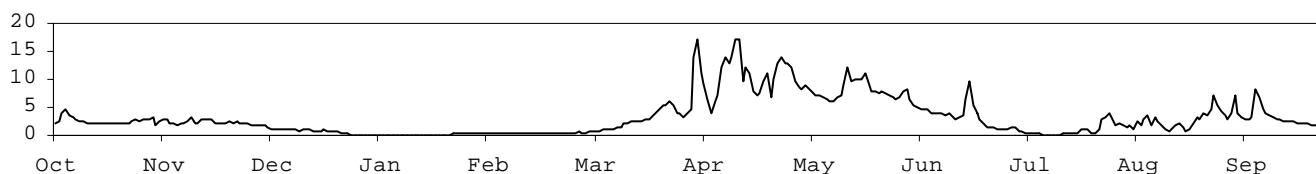
RATING TABLE.--CARLAGCO15 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.7	1.5	.06	.25	.52	4.7	9.6	7.9	.99	1.9	3.7
2	2.5	2.7	1.2	.05	.25	.52	14	8.6	8.2	1.3	2.1	2.7
3	4.1	2.2	1.2	.06	.23	.56	17	8.3	6.4	1.6	1.7	4
4	4.6	2.2	1.1	.08	.21	.6	11	8.8	5.3	.81	1.6	7.2
5	3.4	1.9	1.1	.08	.2	.66	9.2	8.3	4.9	.6	1.7	3.9
6	3.1	2	.96	.08	.19	.8	6.3	7.5	4.8	.45	1.1	3.3
7	2.8	2.1	.9	.07	.18	1	4.1	7.3	4.7	.5	2.6	3
8	2.5	2.6	.94	.07	.19	1.1	5.9	7.2	4.5	.45	1.7	2.9
9	2.5	3.2	.94	.08	.23	1.2	7.1	6.9	4.1	.4	2.9	3.1
10	2.3	2.3	.86	.08	.3	1.2	12	6.6	4.1	.35	3.4	8.1
11	2.2	2.2	.9	.08	.33	1.3	14	6	4.1	.06	1.9	6.8
12	2.2	2.8	.94	.08	.38	1.6	13	6.2	3.8	0	3.1	4.7
13	2.1	2.8	.94	.09	.5	2	14	6.7	3.7	.07	2.4	3.9
14	2.1	2.9	.88	.09	.5	2.3	17	7.3	3.9	0	1.7	3.4
15	2.1	2.8	.88	.09	.44	2.5	17	8.9	3.4	0	1.1	3.2
16	2.1	2	.88	.1	.42	2.5	9.5	12	3	.09	.59	2.9
17	2	2.1	.9	.11	.44	2.6	12	9.7	3.3	.18	1.2	2.7
18	2	2.2	.8	.1	.44	2.6	11	9.9	3.5	.3	1.9	2.5
19	2.1	2	.7	.12	.4	2.7	8	10	6.4	.26	2.1	2.4
20	2.1	2.5	.6	.12	.4	2.7	7	9.9	9.7	.21	1.5	2.5
21	2.2	2.2	.6	.14	.4	3.1	7.5	11	5.5	.26	.85	2.4
22	2.2	2.4	.4	.17	.4	4	9.6	9	3.8	1	1.1	2.3
23	2.5	2.3	.4	.2	.38	4.7	11	8	2.9	1	2.1	2.2
24	2.7	2.2	.2	.23	.39	5.4	6.8	8	2.1	1.2	3.1	2.1
25	2.6	2.1	.07	.26	.44	5.4	10	7.5	1.5	.45	3	2
26	2.7	1.9	.08	.25	.44	6.2	13	8	1.4	.37	3.9	1.9
27	3	1.7	.08	.23	.45	5.4	14	7.6	1.4	1.2	3.5	1.9
28	2.9	1.8	.09	.23	.6	4.1	13	7.1	1.1	2.9	4.5	1.8
29	3.1	1.9	.09	.23	---	3.8	13	6.7	.97	3.3	7	1.9
30	1.9	1.7	.07	.24	---	3.1	12	6.4	1	4	5.3	1.9
31	2.5	---	.07	.27	---	3.8	---	6.8	---	2.4	4.4	---
TOTAL	79.3	68.4	21.27	4.14	9.98	79.96	323.7	251.8	121.37	26.7	76.94	97.3
MEAN	2.6	2.3	.69	.13	.36	2.58	10.8	8.1	4.05	.86	2.48	3.2
AC-FT	157	136	42	8.2	20	159	642	499	241	53	153	193
MAX	4.6	3.2	1.5	.27	.6	6.2	17	12	9.7	4	7	8.1
MIN	1.9	1.7	.07	.05	.18	.52	4.1	6	.97	0	.59	1.8
CAL YR 2002	TOTAL	897.17	MEAN	2.46	MAX	12	MIN	0	AC-FT	1780		
WTR YR 2003	TOTAL	1160.86	MEAN	3.18	MAX	17	MIN	0	AC-FT	2300		

MAX DISCH: 27.7 CFS AT 12:00 ON Apr. 2, 2003 GH 2.46 FT. SHIFT 0.01 FT.
MAX GH: 2.46 FT. AT 12:00 ON Apr. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY,

08231000 LA GARITA CREEK NEAR LA GARITA, CO

LOCATION.--Lat 37°48'48", long 106°19'05", in NW¼SE¼ sec. 9, T.41 N., R.6 E., Saguache County, Hydrologic Unit 13010004, on right bank 4.5 mi. downstream from Little La Garita Creek and 4.5 mi. southwest of La Garita, Co.

DRAINAGE AREA AND PERIOD OF RECORD.--61 mi². Non-recording station Apr. 01, 1919-June 23, 1927. Recording station from June 1927-Oct. 1998, at which time a Data Logger was installed. April 1999 satellite telemetry system installed. Station at various sites all within ¼ mile of present site.

GAGE.--Graphic water-stage recorder and satellite-monitored data collection platform in 4-foot diameter CMP shelter and well. Altitude of gage is 8,030 ft from topographic map.

REMARKS.--Record is complete and reliable except for the following periods; Dec. 3 - 10, 2002 when the well was frozen, March 20-23, 2003 when the inlets were frozen and Dec. 11, 2002 to March 19, 2003 when the station was closed for the winter. Stage-discharge relation was affected by ice Nov. 5-7, 11-30, Dec. 1, 2, 2002, Mar. 29-30, Apr. 8, 2003. Record is good, except for periods of missing gage heights and ice-affected record, which is poor. Station maintained and record developed by the Division III Hydrographic Staff.

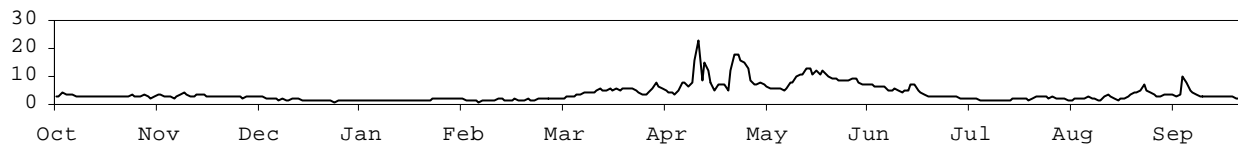
RATING TABLE.--LAGLAGCO12 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.5	2.8	1.5	1.9	1.9	6	8.5	9.2	2.9	2.7	3.5
2	3.1	3.5	2.9	1.3	2	1.8	7.7	6.9	9.5	2.8	2.4	2.6
3	4.4	3.2	2.9	1.4	1.6	1.9	6.6	6.9	7.7	2.6	2.3	2.6
4	3.8	2.6	2.4	1.4	1.4	2.2	5.4	7.6	7.2	2.4	2.1	3.6
5	3.8	2.7	2.2	1.4	1.3	2.5	5	6.9	7.1	2.2	2	3.8
6	3.5	2.5	1.9	1.4	1.2	3	4.5	6.1	7.1	2.1	1.7	3.8
7	3.2	2.7	1.8	1.2	.98	2.8	4.4	5.9	6.8	2.2	1.7	3.6
8	3	3.3	1.7	1.2	1.1	3	3.6	6	6.5	2.2	1.8	3.2
9	2.8	4	1.8	1.2	1.3	3.3	4.8	5.6	6.1	1.9	2.5	3.5
10	2.7	3.3	1.6	1.4	1.3	3.6	7.9	5.4	6.2	1.5	2	10
11	2.6	2.6	1.7	1.4	1.6	4	8	5.1	6.2	1.4	2.1	7.8
12	2.6	3	1.8	1.4	1.6	4.6	6.7	5.9	5.3	1.5	2.6	5.1
13	2.6	3.3	1.9	1.2	1.9	4.4	7.7	7.6	5.3	1.5	2.1	4.1
14	2.6	3.5	1.8	1.3	1.8	4.4	16	7.7	5.4	1.5	1.8	3.5
15	2.7	3.3	1.7	1.3	1.7	4.7	23	10	4.7	1.5	1.4	3.2
16	2.6	3	1.6	1.4	1.6	5.4	8.6	11	4.6	1.7	1.6	2.9
17	2.6	3	1.7	1.5	1.7	5.2	15	11	5	1.7	3	2.8
18	2.6	3.1	1.4	1.3	1.9	5.2	12	13	5.3	1.5	3.9	2.7
19	2.7	3	1.4	1.5	1.7	5.4	7.9	13	7.5	1.3	2.9	2.8
20	2.7	3.1	1.1	1.5	1.5	5	5.3	11	7.3	1.9	2.1	2.8
21	2.7	3.2	1.2	1.5	1.7	5.4	6.8	12	5.1	2.4	1.7	2.8
22	2.7	3	1.1	1.5	1.9	5	7.3	11	4	2.3	1.8	2.8
23	2.8	2.9	1.3	1.7	1.7	5.4	7.4	12	3.5	1.9	2.3	2.6
24	3.5	2.9	1.2	1.8	1.6	5.9	4.8	11	3.2	2.4	2.9	2.6
25	3.1	3	1	2.2	1.8	5.8	12	10	3	1.7	3.6	2.6
26	3.1	2.7	1.1	2.1	1.8	5.4	18	9.6	3.1	2.3	4	2.5
27	3.1	2.4	1.2	1.9	1.8	4.9	18	9.1	3	2.7	4.1	2.4
28	3.3	2.6	1.2	1.9	2	4.1	16	8.9	2.9	3.2	5	2.3
29	3.1	2.8	1.3	1.9	---	3.4	15	8.8	2.8	2.9	7.3	2.5
30	2.5	2.6	1.4	1.9	---	3.6	13	8.5	2.9	3.1	4.7	2.4
31	2.9	---	1.3	2.1	---	4.3	---	8.5	---	2.4	4.4	---
TOTAL	92.2	90.3	51.4	47.7	45.38	127.5	284.4	270.5	163.5	65.6	86.5	103.4
MEAN	3	3	1.7	1.5	1.62	4.1	9.5	8.7	5.5	2.1	2.8	3.5
AC-FT	183	179	102	95	90	253	564	537	324	130	172	205
MAX	4.4	4	2.9	2.2	2	5.9	23	13	9.5	3.2	7.3	10
MIN	2.5	2.4	1	1.2	.98	1.8	3.6	5.1	2.8	1.3	1.4	2.3
CAL YR 2002	TOTAL	1168.81	MEAN	3.20	MAX	17	MIN	.63	AC-FT	2320		
WTR YR 2003	TOTAL	1428.38	MEAN	3.91	MAX	23	MIN	.98	AC-FT	2830		

MAX DISCH: 35.6 CFS AT 04:00 ON Apr. 15, 2003 GH 2.54 FT. SHIFT 0.08 FT.
MAX GH: 2.54 FT. AT 04:00 ON Apr. 15, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08235250 ALAMOSA RIVER ABOVE WIGHTMAN FORK NEAR JASPER, CO

LOCATION.--Lat 37°24'09", long 106°31'17", in SE¼SW¼ sec.35, T.37 N., R.4 E., Rio Grande Co. Hydrologic Unit 13010002, Rio Grande National Forest, on left bank 150' upstream from Wightman Fork, 1.9 mi downstream from Bitter Creek, 4.1 mi west of Jasper, and 4.2 mi southeast of Summitville.

DRAINAGE AREA AND PERIOD OF RECORD.--37.8 mi².

GAGE.--Shelter is a steel building 4 by 4 by 8 ft. Shelter houses DCP (data collection platform) connected to Sutron Accubar and Hydrolab for stage and water-quality data collection. DCP stores data and is monitored by satellite.

REMARKS.--Record complete for period of operation, May 7 to September 30, 2003, except for the following periods: May 21 to June 4, 2003, when the Accubar was not operational. May 7, July 16 to 19, and September 28, 2003, when some or all of the stage data was not available. Record fair, except that for periods of missing gage-height record, which are poor. Station maintained and records developed by Frank Kipple and Division III Hydro Staff.

RATING TABLE.-- ALAWIGCO02 USED FROM 07-MAY-2003 TO 30-SEP-2003

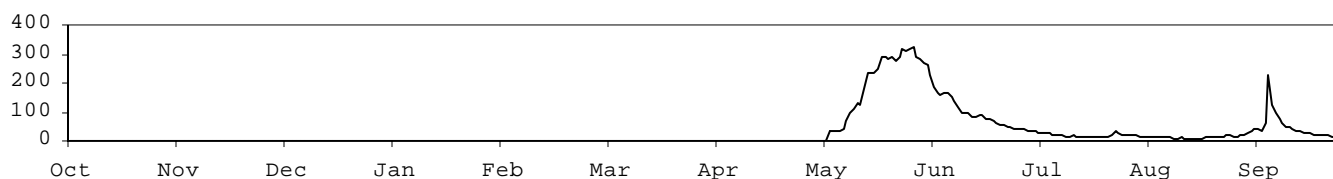
DISCHARGE, IN CFS, May 7, 2003 TO SEPTEMBER 30, 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-	-	-	-	-	-	-	-	290	39	22	16
2	-	-	-	-	-	-	-	-	280	38	23	18
3	-	-	-	-	-	-	-	-	270	37	21	20
4	-	-	-	-	-	-	-	-	264	35	17	29
5	-	-	-	-	-	-	-	-	225	32	15	32
6	-	-	-	-	-	-	-	-	183	29	14	42
7	-	-	-	-	-	-	-	35	165	28	17	38
8	-	-	-	-	-	-	-	36	157	26	16	33
9	-	-	-	-	-	-	-	37	166	25	14	64
10	-	-	-	-	-	-	-	36	167	23	13	225
11	-	-	-	-	-	-	-	42	154	22	14	125
12	-	-	-	-	-	-	-	71	137	20	13	95
13	-	-	-	-	-	-	-	97	119	18	12	77
14	-	-	-	-	-	-	-	111	100	17	10	63
15	-	-	-	-	-	-	-	131	99	16	10	50
16	-	-	-	-	-	-	-	124	94	18	11	45
17	-	-	-	-	-	-	-	179	81	16	9.8	41
18	-	-	-	-	-	-	-	233	82	13	10	36
19	-	-	-	-	-	-	-	235	90	14	9.4	32
20	-	-	-	-	-	-	-	232	93	14	8	30
21	-	-	-	-	-	-	-	250	79	13	8.1	27
22	-	-	-	-	-	-	-	290	73	12	9.9	26
23	-	-	-	-	-	-	-	290	68	13	11	23
24	-	-	-	-	-	-	-	280	63	13	13	21
25	-	-	-	-	-	-	-	290	56	12	15	21
26	-	-	-	-	-	-	-	275	52	14	12	20
27	-	-	-	-	-	-	-	290	49	19	12	19
28	-	-	-	-	-	-	-	320	47	33	16	17
29	-	-	-	-	-	-	-	310	43	27	19	17
30	-	-	-	-	-	-	-	320	41	20	19	16
31	-	-	-	-	-	-	-	325	-	22	17	-
TOTAL	-	-	-	-	-	-	-	4839	3787	678	431.2	1318
MEAN	-	-	-	-	-	-	-	194	126	22	13.9	44
AC-FT	-	-	-	-	-	-	-	9600	7510	1340	855	2610
MAX	-	-	-	-	-	-	-	325	290	39	23	225
MIN	-	-	-	-	-	-	-	-	41	12	8	16

CAL YR 2002 TOTAL - MEAN - MAX - MIN - AC-FT -
5/7/03-9/30/03 TOTAL 11053.2 MEAN 75.2 MAX 325 MIN 8 AC-FT 21920

MAX DISCH: 366 CFS AT 20:00 ON May 19, 2003 GH 4.25 FT. SHIFT 0.26 FT.
MAX GH: 4.25 FT. AT 20:00 ON May 19, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08235290 WIGHTMAN FORK AT MOUTH AT ALAMOSA RIVER, CO

LOCATION.--Lat. 37°24'14", long 106°31'16", in SE¼SW¼ sec. 35, T.37 N., R.4 E., Rio Grande County, Hydrologic Unit 13010002, on right bank 25' downstream from bridge on Forest Development Road No. 250, about 300' upstream from confluence with Alamosa River, and 4.3 mi southwest of Jasper.

DRAINAGE AREA AND PERIOD OF RECORD.--16.1 mi². July 1995 to current year (seasonal record only).

GAGE.--Shelter is a 4 by 4 by 8 ft. steel building for this station and includes equipment for the station "Alamosa River above Wightman Fork". Equipment for this station includes a DCP (data collection platform) which collects gage-height data from a Sutron Accubar and water quality data from a Hydrolab. The DCP is satellite monitored.

REMARKS.--Record is complete for the period of operation, May 8 to September 30 in 2003 water year, except for the following: May 8-15, when orifice and channel were still iced up. May 21-29, when DCP failed. May 30 to June 4 when DCP was not programmed properly. Record fair, except that for periods of missing gage-heights, which are poor. Station maintained and records developed by Division III Hydrographic Staff.

RATING TABLE.--WFKMOUCO02 USED FROM 15-MAY-2003 TO 30-SEP-2003

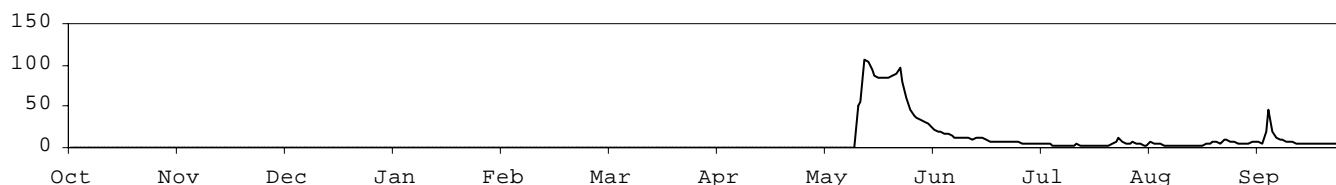
DISCHARGE, IN CFS, MAY 15, 2003 TO SEPTEMBER 30, 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-	-	-	-	-	-	-	-	36	5.9	5.5	4.7
2	-	-	-	-	-	-	-	-	34	5.6	7.1	4.3
3	-	-	-	-	-	-	-	-	31	5.5	5.8	4.8
4	-	-	-	-	-	-	-	-	29	5.5	4.2	5.8
5	-	-	-	-	-	-	-	-	26	5	3.6	7.8
6	-	-	-	-	-	-	-	-	22	4.7	3.4	8.3
7	-	-	-	-	-	-	-	-	20	4.6	6.8	6.2
8	-	-	-	-	-	-	-	-	19	4.3	5	5.2
9	-	-	-	-	-	-	-	-	18	3.9	4.3	19
10	-	-	-	-	-	-	-	-	16	3.6	3.9	47
11	-	-	-	-	-	-	-	-	15	3.6	3.4	19
12	-	-	-	-	-	-	-	-	13	3.5	3.3	13
13	-	-	-	-	-	-	-	-	12	3.4	3.2	10
14	-	-	-	-	-	-	-	-	11	3.1	2.8	8.8
15	-	-	-	-	-	-	-	50	11	3.2	2.8	8
16	-	-	-	-	-	-	-	55	12	3.4	3	7.3
17	-	-	-	-	-	-	-	106	10	3.9	2.9	6.4
18	-	-	-	-	-	-	-	105	11	2.9	2.9	5.8
19	-	-	-	-	-	-	-	95	12	2.8	2.9	6
20	-	-	-	-	-	-	-	88	11	3.2	2.3	5.8
21	-	-	-	-	-	-	-	85	8.7	3.2	2.3	5.6
22	-	-	-	-	-	-	-	85	8.2	2.8	3.6	5.4
23	-	-	-	-	-	-	-	85	7.7	2.9	4.4	5.2
24	-	-	-	-	-	-	-	85	7.3	3.1	4.9	5.1
25	-	-	-	-	-	-	-	88	6.8	2.8	6.3	4.9
26	-	-	-	-	-	-	-	90	6.9	3.4	6.6	4.8
27	-	-	-	-	-	-	-	96	6.8	5	4.5	4.6
28	-	-	-	-	-	-	-	80	6.7	6.9	9.8	4.5
29	-	-	-	-	---	-	-	60	6.5	13	8.9	4.5
30	-	-	-	-	---	-	-	46	6.2	7.3	8	4.4
31	-	---	-	-	---	-	---	38	---	5.5	6.5	---
TOTAL	-	-	-	-	-	-	-	1337	440.8	137.5	144.9	252.2
MEAN	-	-	-	-	-	-	-	78.6	14.7	4.4	4.7	8.4
AC-FT	-	-	-	-	-	-	-	2650	874	273	287	500
MAX	-	-	-	-	-	-	-	106	36	13	9.8	47
MIN	-	-	-	-	-	-	-	-	6.2	2.8	2.3	4.3

CAL YR 2002 TOTAL - MEAN - MAX - MIN - AC-FT -
5/15/03-9/30/03 TOTAL 2312.4 MEAN 16.6 MAX 106 MIN 2.3 AC-FT 4590

MAX DISCH: 170 CFS AT 17:45 ON May. 17, 2003 GH 4.97 FT. SHIFT -0.14 FT.
MAX GH: 4.97 FT. AT 17:45 ON May. 17, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

ALAMOSA RIVER BELOW RANGER CREEK, CO

LOCATION.--Lat. 37°23'23", long. 106°22'41", Conejos County, on right bank, 30' above Silver Lakes Road Bridge, 0.4 miles below Ranger Creek and 4 miles above Terrace Reservoir.

DRAINAGE AREA AND PERIOD OF RECORD.--

GAGE.--Station established in water year 2003. Shelter is 4x4x8 foot steel building equipped with Sutron Accubar to collect stream level data, and a Hydrolab to obtain water quality information. Data collection platform (DCP) used to store collected data and transmit to satellite. Outside staff gage installed as base gage.

REMARKS.--Record is complete and reliable for the period of operation, May 29 to September 30, 2003, except for the following: May 29, 2003 when there was missing data; July 27 to August 6, 2003, when battery was low; August 9-20, 2003, when solar panel was disconnected. Record fair, except that for poor or missing gage-height record, which is poor. Station maintained and records developed by Frank Kipple and Division III Staff.

RATING TABLE.--ALARANCO01 USED FROM 29-MAY-2003 TO 30-SEP-2003

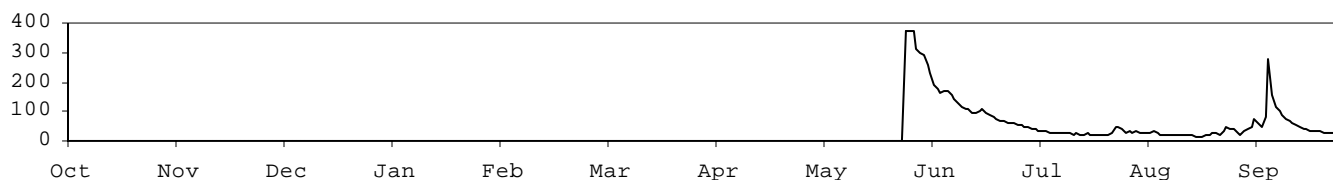
DISCHARGE, IN CFS, MAY 29 TO SEPTEMBER 30, 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-	-	-	-	-	-	-	-	314	52	31	27
2	-	-	-	-	-	-	-	-	298	49	28	23
3	-	-	-	-	-	-	-	-	294	46	34	36
4	-	-	-	-	-	-	-	-	259	42	27	42
5	-	-	-	-	-	-	-	-	231	39	25	46
6	-	-	-	-	-	-	-	-	192	35	24	73
7	-	-	-	-	-	-	-	-	176	34	28	64
8	-	-	-	-	-	-	-	-	161	32	32	49
9	-	-	-	-	-	-	-	-	169	30	24	83
10	-	-	-	-	-	-	-	-	167	29	20	276
11	-	-	-	-	-	-	-	-	155	28	18	156
12	-	-	-	-	-	-	-	-	142	28	18	117
13	-	-	-	-	-	-	-	-	127	26	20	99
14	-	-	-	-	-	-	-	-	112	24	19	86
15	-	-	-	-	-	-	-	-	109	24	17	74
16	-	-	-	-	-	-	-	-	110	23	19	66
17	-	-	-	-	-	-	-	-	98	26	19	58
18	-	-	-	-	-	-	-	-	96	22	19	51
19	-	-	-	-	-	-	-	-	104	21	17	47
20	-	-	-	-	-	-	-	-	109	24	14	43
21	-	-	-	-	-	-	-	-	93	23	14	40
22	-	-	-	-	-	-	-	-	88	20	16	36
23	-	-	-	-	-	-	-	-	83	20	22	34
24	-	-	-	-	-	-	-	-	77	22	21	33
25	-	-	-	-	-	-	-	-	71	19	26	32
26	-	-	-	-	-	-	-	-	66	20	27	30
27	-	-	-	-	-	-	-	-	64	30	22	28
28	-	-	-	-	-	-	-	-	64	45	33	27
29	-	-	-	-	-	-	-	370	60	50	46	26
30	-	-	-	-	-	-	-	370	55	38	38	25
31	-	-	-	-	-	-	-	374	-	30	39	-
TOTAL	-	-	-	-	-	-	-	1114	4144	951	757	1827
MEAN	-	-	-	-	-	-	-	371	138	31	24	61
AC-FT	-	-	-	-	-	-	-	2210	8220	1890	1500	3620
MAX	-	-	-	-	-	-	-	374	314	52	46	276
MIN	-	-	-	-	-	-	-	-	55	19	14	23

CAL YR	2002	TOTAL	-	MEAN	-	MAX	-	MIN	-	AC-FT	-
5/29/03-9/30/03	TOTAL	8793	MEAN	70.3	MAX	374	MIN	14	AC-FT	17440	

MAX DISCH: 545 CFS AT 22:00 ON May. 30, 2003 GH 4.09 FT. SHIFT 0.01 FT.
MAX GH: 4.09 FT. AT 22:00 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08236000 ALAMOSA CREEK ABOVE TERRACE RESERVOIR, CO

LOCATION.--Lat 37°22'29", long 106°20'03", in NW¼NE¼ sec. 17, T.36 N., R.6 E., Conejos County, Hydrologic Unit 13100002, on left bank 0.8 mi upstream from high-water line of Terrace Reservoir at elevation 8,568 ft., 3.0 mi. downstream from French Creek, and 15 mi. northwest of Capulin.

DRAINAGE AREA.--107 mi².

GAGE.--Graphic water-stage recorder in a 4-ft. diameter metal shelter and well. Gage is also equipped with a Sutron river satellite monitoring system with thermistor. The gage was reset on Jul. 25, 2002 to deal with the problems of isolation during very low flows. Datum of gage is 8,600 ft., from topographic map.

REMARKS.--Record is complete and reliable except for Nov. 25, 2002 through Mar. 19, 2003 when the station was closed for the winter. Stage-discharge relation was affected by ice Nov. 5-8,11-24,2002. Record is good except for the periods of ice affected record and no gage height record, which are poor. Station maintained and record developed by the Division III Hydrographic Staff.

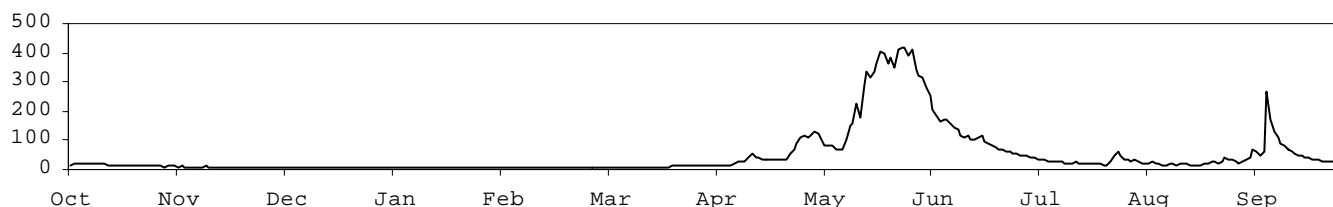
RATING TABLE.--ALATERCO16 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	10	9.4	6.8	7.2	5	16	108	345	51	35	26
2	19	11	8.6	6	7.2	4.8	17	114	322	49	29	21
3	23	9.4	9.4	6.4	6.2	5	15	127	318	46	33	30
4	20	9.3	8.6	6.8	5.6	5.8	14	120	282	43	24	37
5	21	9.2	8	6.4	5.2	5.8	14	95	251	40	21	42
6	20	9	8	6.8	4.7	5.4	13	83	204	36	19	69
7	19	9	8.4	6.2	4	6.2	11	82	186	34	20	62
8	20	9.4	8.4	6.6	4.4	5.8	14	79	164	32	27	48
9	19	11	7.8	6	4.4	6.4	13	69	170	30	21	63
10	19	10	8	6.6	4.4	6.4	18	66	169	28	19	270
11	18	9	8	7	4.6	7	24	70	160	27	17	173
12	17	8.4	8	6	5	8	27	103	146	26	17	130
13	17	9	8	6.2	6	9	29	148	135	24	21	108
14	15	9	8.2	6	5.8	8	39	158	118	23	18	92
15	13	9	8.4	6.4	5.4	8.6	55	223	112	22	16	80
16	12	8.4	8.8	6	5	9	39	175	114	21	19	70
17	11	9	8	6.2	5.6	9	39	291	104	24	18	62
18	12	9	6.6	5.8	5.6	9	36	336	100	20	18	55
19	11	8.6	5.8	6.2	5.2	9	34	318	108	18	17	50
20	11	9	5	6.4	4.4	8.6	32	334	114	22	14	46
21	11	9.4	5.6	7	5	9.7	35	362	96	21	13	43
22	11	9	5.6	6.8	5.4	9.2	37	403	89	18	15	40
23	12	9.2	6.2	7.4	4.6	12	35	399	84	18	21	37
24	12	9	5.6	8.2	5	14	31	366	78	19	21	34
25	11	9	5.6	7.6	5.6	14	36	382	71	16	24	32
26	11	8.4	5	6.4	5.4	13	52	350	66	17	26	30
27	12	8	5.6	7	5	14	71	409	61	29	21	29
28	10	8.4	5.8	7	5.4	11	90	421	59	47	27	27
29	11	9	6.2	6.6	---	12	109	421	56	61	42	26
30	11	9	6.4	6.6	---	12	119	392	53	48	32	25
31	11	---	6.4	6.8	---	12	---	409	---	31	36	---
TOTAL	456	274.1	223.4	204.2	147.3	274.7	1114	7413	4335	941	701	1857
MEAN	15	9.1	7.2	6.6	5.3	8.9	37	239	145	30	23	62
AC-FT	904	544	443	405	292	545	2210	14700	8600	1870	1390	3680
MAX	23	11	9.4	8.2	7.2	14	119	421	345	61	42	270
MIN	10	8	5	5.8	4	4.8	11	66	53	16	13	21
CAL YR 2002	TOTAL	9407.9	MEAN	25.8	MAX	137	MIN	4.2	AC-FT	18660		
WTR YR 2003	TOTAL	17940.7	MEAN	49.2	MAX	421	MIN	4.0	AC-FT	35590		

MAX DISCH: 592 CFS AT 22:15 ON May. 22, 2003 GH 2.52 FT. SHIFT -0.01 FT.
MAX GH: 2.52 FT. AT 22:15 ON May. 22, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08236500 ALAMOSA CREEK BELOW TERRACE RESERVOIR, CO

LOCATION.--Lat 37°21'15", long 106°16'45", NE¼SE¼ sec. 23, T.36 N., R.6 E., Conejos County, Hydrologic Unit 13010002, on left bank 0.5 mi downstream from Terrace Reservoir, 12.0 mi northwest of Capulin, Co.

DRAINAGE AREA.--116 mi².

GAGE.--Graphic water-stage recorder and Sutron satellite system in an approximately 3-ft square timber shelter and corrugated metal well. Altitude of gage is 8,375 ft, from topographic map.

REMARKS.--Record is complete and reliable except for Dec. 5,2002 - March 19,2003 when the well was frozen. Record is good except for the period when the well was frozen which is fair to poor. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--ALABELCO12 USED FROM 01-OCT-2002 TO 30-SEP-2003

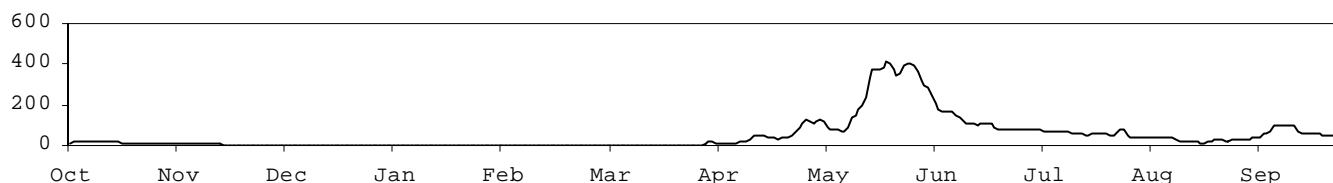
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.9	4.1	4.1	1.6	1.6	5.4	121	366	74	44	32
2	15	10	4.1	4.1	1.6	1.6	16	109	313	77	43	27
3	19	10	4.1	4.1	1.6	1.6	17	122	291	79	43	29
4	21	10	4.1	4.1	1.6	1.6	14	130	289	79	43	29
5	20	10	4.1	4.1	1.6	1.6	13	114	250	79	43	38
6	19	10	4.1	4.1	1.6	1.6	13	88	211	76	44	43
7	18	7.3	4.1	4.1	1.6	1.6	13	79	178	70	41	44
8	17	6	4.1	4.1	1.6	1.7	11	79	167	68	41	59
9	17	6.5	4.1	4.1	1.6	1.7	9.4	79	167	67	41	61
10	17	8.5	4.1	4.1	1.6	1.7	12	69	167	67	40	64
11	16	11	4.1	4.1	1.6	1.7	17	64	166	65	42	96
12	15	14	4.1	4.1	1.6	1.7	22	86	151	64	41	99
13	15	8.8	4.1	4.1	1.6	1.7	23	138	134	64	35	99
14	15	4.3	4.1	4.1	1.6	1.7	32	149	119	64	31	99
15	15	4.1	4.1	4.1	1.6	1.7	46	177	113	61	18	98
16	13	4.1	4.1	4.1	1.6	1.7	51	198	113	60	18	98
17	10	4.1	4.1	4.1	1.6	1.7	50	235	106	58	18	97
18	9.4	4.1	4.1	4.1	1.6	1.7	48	333	101	58	16	73
19	9.4	4.1	4.1	4.1	1.6	1.7	42	372	104	54	16	56
20	9.6	4.1	4.1	4.1	1.6	1.8	38	372	107	52	15	56
21	9.7	4.1	4.1	4.1	1.6	1.8	36	371	107	56	8.5	56
22	9.7	4.1	4.1	4.1	1.6	1.8	34	388	107	59	12	56
23	11	4.1	4.1	1.6	1.6	1.8	38	409	86	57	15	56
24	12	4.1	4.1	1.6	1.6	1.8	41	405	76	58	20	55
25	12	4.1	4.1	1.6	1.6	1.8	41	372	76	55	26	49
26	12	4.1	4.1	1.6	1.6	1.8	51	342	77	53	29	45
27	12	4.1	4.1	1.6	1.6	1.9	68	355	79	52	25	45
28	13	4.1	4.1	1.6	1.6	1.9	90	392	80	62	23	45
29	11	4.1	4.1	1.6	---	1.9	110	406	80	78	20	47
30	9.7	4.1	4.1	1.6	---	1.9	129	404	80	79	31	49
31	9.7	---	4.1	1.6	---	1.9	---	397	---	53	33	---
TOTAL	426.2	191.9	127.1	104.6	44.8	53.7	1130.8	7355	4461	1998	915.5	1800
MEAN	13.7	6.4	4.1	3.4	1.6	1.7	37.7	237	149	65	29.5	60
AC-FT	845	381	252	207	89	107	2240	14590	8850	3960	1820	3570
MAX	21	14	4.1	4.1	1.6	1.9	129	409	366	79	44	99
MIN	9.4	4.1	4.1	1.6	1.6	1.6	5.4	64	76	52	8.5	27

CAL YR	2002	TOTAL	9867.7	MEAN	27	MAX	141	MIN	4.1	AC-FT	19570
WTR YR	2003	TOTAL	18608.6	MEAN	51	MAX	409	MIN	1.6	AC-FT	36910

MAX DISCH: 421 CFS AT 10:15 ON May. 23, 2003 GH 4.11 FT. SHIFT 0.01 FT.
MAX GH: 4.11 FT. AT 10:15 ON May. 23, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08238000 LA JARA CREEK AT GALLEGOS RANCH, NEAR CAPULIN, CO

LOCATION.--Lat 37°12'32", long 106°11'16", in NE¼ sec. 10, T.34 N., R.7 E., Conejos County, Hydrologic Unit 13010002, on left bank 2.7 mi. downstream from Canyon Del Rancho, 7 mi. southwest of Capulin, and 16.5 mi. downstream from La Jara Reservoir.

DRAINAGE AREA.--98 mi².

GAGE.--Graphic water-stage recorder with satellite telemetry in 42" diameter CMP shelter and well. Altitude of gage is 8,130 ft from topographic map.

REMARKS.--Record is complete and reliable except for Nov.25, 2002 through Mar. 19, 2003 when the station was closed for the winter. Stage-discharge relation was affected by ice Nov. 12-24, 2002, and March 22,29-30,2003. Record is good, except for periods of no gage-height and ice affected record, which are poor. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--LAJCAPCO18 USED FROM 01-OCT-2002 TO 30-SEP-2003

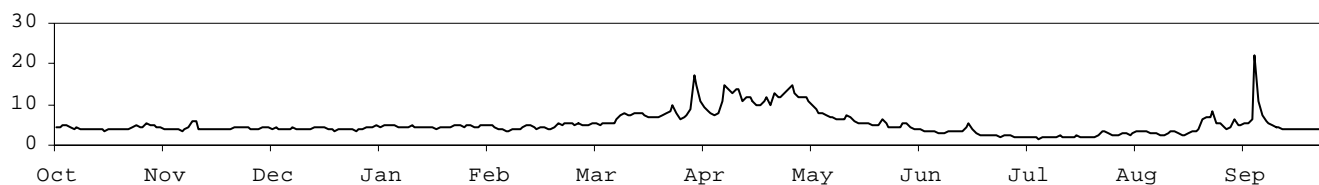
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.1	4.5	4.8	4.9	4.7	8.7	13	5.3	2.3	2.4	4.5
2	4.5	4.1	4	4.4	5	4.7	17	12	5.2	2.3	2.5	3.9
3	5.1	4	4.3	4.7	4.7	5	15	12	4.4	2.1	3.1	4.3
4	5	4.1	4	4.9	4.5	5.4	11	12	4	2	2.8	6.4
5	4.5	3.9	3.9	4.7	4	5.4	9.4	11	3.9	2	2.7	5.1
6	4	3.6	3.9	4.9	3.7	5	8.6	10	3.7	2	2.8	4.8
7	4.2	4	4	4.6	3.3	5.4	7.7	9	3.5	2.2	3.3	5.6
8	4	4.6	4.2	4.6	3.6	5.2	7.3	8.1	3.5	2.1	3.3	5.4
9	3.8	5.7	3.9	4.4	3.7	5.6	8	8	3.3	1.8	3.6	6.5
10	4	5.8	4	4.6	3.7	5.6	11	7.2	3.2	1.7	3.3	22
11	3.8	3.8	4	4.8	4	6.6	15	6.7	3.1	1.8	3	11
12	3.7	3.7	3.9	4.4	4.4	7.4	14	6.7	3	2	2.9	7.3
13	3.7	3.8	4	4.4	5	7.8	13	6.6	3.1	2.2	3	6.1
14	3.7	3.9	4.2	4.4	4.8	7.4	14	6.2	3.3	2	2.7	5.2
15	3.6	3.9	4.4	4.6	4.4	7.6	14	6.2	3.3	1.9	2.5	4.8
16	3.8	3.7	4.6	4.2	4.1	8	11	7.6	3.3	2.3	3.1	4.4
17	3.8	3.9	4.4	4.4	4.5	7.8	12	6.8	3.5	2.1	3.5	4.2
18	3.8	3.9	4	4	4.4	7.8	12	5.9	3.6	2	3.2	4
19	4	3.8	3.7	4.2	4.1	7.6	11	5.5	4.2	1.8	2.9	3.9
20	4	4	3.5	4.4	4	7.1	10	5.6	5.2	2	2.7	3.9
21	4	4.4	3.8	4.6	4.6	6.8	10	5.6	3.9	2.3	2.6	3.8
22	4.1	4.3	3.7	4.5	5.4	6.8	11	5.2	3.1	2.1	2.9	3.9
23	4.3	4.4	4	4.7	5	7	12	4.7	2.6	1.9	3.4	3.8
24	4.7	4.3	3.8	4.9	5.4	7.3	10	4.7	2.4	2.1	3.5	3.7
25	4.5	4.3	3.8	4.8	5.6	7.8	13	5	2.3	2	3.7	3.7
26	4.6	4	3.4	4.4	5.4	8.4	12	6.3	2.4	2	6.2	3.8
27	5.2	3.8	3.7	4.8	5	10	12	5.2	2.4	2.5	7.1	3.7
28	4.7	4	3.9	4.8	5.2	8.1	13	4.6	2.3	3.2	6.8	3.7
29	5.1	4.3	4.2	4.6	---	6.4	14	4.3	2.2	3.2	8.2	3.7
30	4.3	4.3	4.4	4.6	---	6.8	15	4.4	2.5	2.9	5.4	3.5
31	4.5	---	4.6	4.8	---	7.2	---	4.6	---	2.5	5.5	---
TOTAL	131.4	124.4	124.7	141.9	126.4	209.7	351.7	220.7	101.7	67.3	114.6	160.6
MEAN	4.2	4.2	4	4.6	4.5	6.8	11.7	7.1	3.4	2.2	3.7	5.4
AC-FT	261	247	247	281	251	416	698	438	202	133	227	319
MAX	5.2	5.8	4.6	4.9	5.6	10	17	13	5.3	3.2	8.2	22
MIN	3.6	3.6	3.4	4	3.3	4.7	7.3	4.3	2.2	1.7	2.4	3.5

CAL YR 2002 TOTAL 1823.57 MEAN 5.00 MAX 13 MIN 0.97 AC-FT 3620
WTR YR 2003 TOTAL 1875.1 MEAN 5.14 MAX 22 MIN 1.7 AC-FT 3720

MAX DISCH: 38 CFS AT 03:00 ON Sep. 10, 2003 GH 1.54 FT. SHIFT 0 FT.
MAX GH: 1.54 FT. AT 03:00 ON Sep. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

SOUTH CHANNEL NORTON DRAIN DITCH NEAR LA SAUSES, CO

LOCATION.--Lat 37°17'54", long 105°51'00, SW¼SW¼ sec. 2, T.35 N., R.10 E., Conejos County, Hydrologic Unit 13100002, on right bank of ditch.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder with satellite telemetry in a steel shelter and a 24" diameter CMP well at a 3' Parshall Flume.

REMARKS.--Record is complete and reliable except for Dec. 13, 2002 to Mar 26, 2003 when station was closed for the winter; and Dec. 10-13, 2002 when the well was frozen. The well was isolated Aug. 12-23, and Sep. 25-29, 2003. The chart data and computer data was missing on Oct. 19, 2002. Stage-discharge relation affected by ice Dec. 5-9, 2002. Record is good except for periods of no gage-height and ice affected record, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--NORDSCCO1 USED FROM 01-OCT-2002 TO 30-SEP-2003

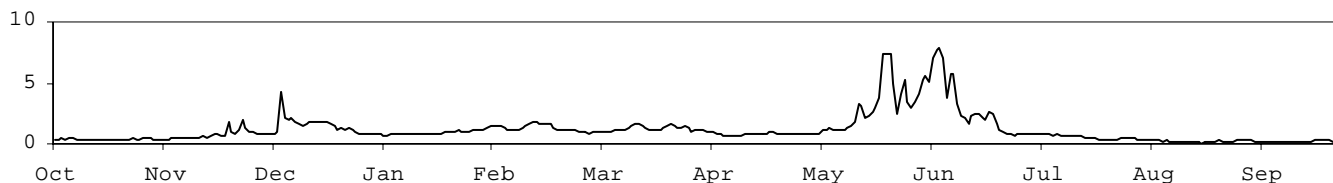
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	.38	.89	.78	1.4	.9	1.2	.78	3.4	.75	.42	.28
2	.4	.4	.85	.72	1.5	.94	1.1	.81	4.1	.75	.42	.28
3	.42	.45	.94	.72	1.4	.98	.98	.8	5.2	.78	.33	.28
4	.38	.49	4.3	.8	1.4	1	.99	.83	5.6	.75	.33	.28
5	.47	.49	2.1	.8	1.3	.96	.93	.88	5.1	.75	.32	.23
6	.46	.49	2	.78	1.2	.96	.85	1.1	7.1	.76	.29	.23
7	.36	.49	2.1	.74	1.1	.98	.82	1.2	7.7	.81	.28	.23
8	.33	.46	1.8	.76	1.1	1.1	.71	1.3	7.9	.82	.29	.22
9	.33	.45	1.6	.76	1.2	1.1	.68	1.2	7.1	.78	.26	.16
10	.33	.43	1.4	.86	1.3	1.1	.69	1.1	3.8	.72	.24	.11
11	.33	.43	1.6	.9	1.4	1.2	.66	1.1	5.8	.74	.25	.11
12	.33	.62	1.8	.84	1.6	1.3	.61	1.1	5.7	.69	.22	.11
13	.33	.56	1.8	.84	1.8	1.5	.69	1.3	3.3	.68	.2	.14
14	.38	.58	1.8	.86	1.8	1.6	.83	1.4	2.3	.67	.18	.12
15	.38	.82	1.8	.9	1.7	1.6	.79	1.8	2.1	.64	.16	.19
16	.38	.8	1.8	.86	1.6	1.5	.75	3.2	1.7	.66	.14	.19
17	.38	.68	1.8	.9	1.7	1.3	.81	3.1	2.3	.66	.12	.19
18	.33	.69	1.6	.86	1.6	1.1	.81	2.2	2.4	.58	.11	.21
19	.33	1.8	1.4	.92	1.3	1.1	.79	2.3	2.5	.55	.1	.23
20	.33	1	1.2	.92	1.1	1.2	.8	2.6	2.2	.49	.1	.23
21	.33	.86	1.3	.98	1.1	1.2	.91	3	2	.46	.08	.24
22	.34	1.1	1.2	1	1.1	1.3	.97	3.7	2.7	.42	.12	.3
23	.41	1.9	1.3	1.1	1.1	1.5	.78	7.3	2.5	.38	.16	.29
24	.38	1.3	1.2	1	1.2	1.6	.76	7.4	1.6	.37	.2	.32
25	.4	1	1	1	1.1	1.4	.78	7.4	1.1	.33	.22	.28
26	.43	1	.9	1	1	1.3	.81	4.9	.91	.33	.25	.26
27	.51	.87	.8	1.1	1	1.3	.76	2.4	.79	.36	.22	.24
28	.46	.86	.84	1.2	1	1.5	.75	4.1	.77	.33	.23	.24
29	.38	.88	.86	1.1	---	1.3	.77	5.2	.72	.42	.23	.26
30	.38	.86	.84	1.2	---	1	.77	3.5	.75	.43	.24	.28
31	.38	---	.78	1.3	---	1.2	---	2.9	---	.42	.28	---
TOTAL	11.77	23.14	45.6	28.5	37.1	38.02	24.55	81.9	101.14	18.28	6.99	6.73
MEAN	.38	.77	1.47	.92	1.3	1.23	.82	2.64	3.37	.59	.23	.22
AC-FT	23	46	90	57	74	75	49	162	201	36	14	13
MAX	.51	1.9	4.3	1.3	1.8	1.6	1.2	7.4	7.9	.82	.42	.32
MIN	.33	.38	.78	.72	1	.9	.61	.78	.72	.33	.08	.11

CAL YR	2002	TOTAL	376.26	MEAN	1.03	MAX	4.3	MIN	.09	AC-FT	746
WTR YR	2003	TOTAL	423.72	MEAN	1.16	MAX	7.9	MIN	.08	AC-FT	840

MAX DISCH: 20.8 CFS AT 13:45 ON Dec. 4, 2002 GH 1.38 FT. SHIFT 0.04 FT.
MAX GH: 1.38 FT. AT 13:45 ON Dec. 4, 2002

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

NORTON DRAIN NEAR LA SAUSES, CO

LOCATION.--Lat 37°20'10", long 105°46'13", NE¼SW¼ sec. 28, T.36 N., R.11 E., Conejos County, Hydrologic Unit 13010002, on left bank 2.5 mi east by northeast along canal from State Route 158.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder and a Sutron satellite monitoring system in a 36 inch diameter CMP shelter and well at a six foot Parshall Flume. Notes: June 11,2002 Parshall flume width modified to two foot in an attempt to keep the well from isolating and to get a more accurate measurement of low flows. On June 4, 2003 modification removed for higher flows, but replaced July 9. Additional modification on July 11 of raising floor by approx. 1 inch in an attempt to prevent well isolation.

REMARKS.--Record is complete and reliable except for Oct. 4-24, 2002, Mar. 27-31, Apr. 3-6, 8-9, July 9-11, Aug. 13-31, and Sept. 1-9, 11-30, 2003 when the well was isolated; May 17, May 23-June 4, 2003 when the modification was overflowing; Dec. 9-12, 2002, when the well was frozen; Dec. 13, 2002 - March 26, 2003 when the station was closed for the winter; Stage-discharge relation was affected by ice Dec. 2-8, 2002. There was no flow Oct. 8-23, 2002, Aug. 16-25, Sept. 5-8, 13-30, 2003. Record is fair except for periods of no gage-height, gage isolation, and ice affected record which are poor. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--STD02FTPF USED FROM 01-OCT-2002 TO 04-JUN-2003
 NORDLSCO03 USED FROM 04-JUN-2003 TO 09-JUL-2003
 STD02FTPF USED FROM 09-JUL-2003 TO 30-SEP-2003

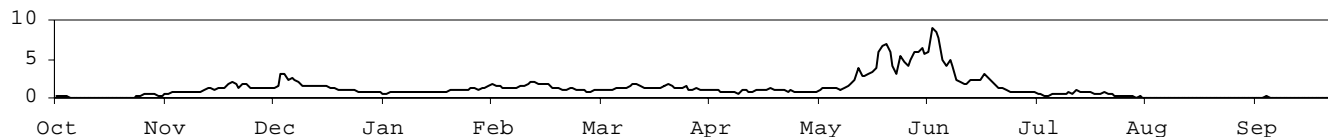
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.54	1.4	.7	1.5	.8	1.2	.82	4.8	.8	.19	.05
2	.19	.49	1.4	.64	1.7	.86	1.1	.87	5.9	.82	.14	.03
3	.19	.67	1.6	.64	1.5	.9	1	.86	5.9	.76	.15	.02
4	.15	.85	3	.7	1.5	.96	1.1	.85	6.4	.68	.12	.01
5	.1	.82	3	.74	1.4	.9	1	.89	5.7	.74	.13	0
6	.05	.76	2.3	.74	1.3	.9	.9	1.1	5.9	.81	.11	0
7	.04	.73	2.5	.7	1.2	1	.99	1.3	8.9	.55	.1	0
8	0	.74	2.2	.7	1.3	1.1	.8	1.3	8.4	.43	.1	0
9	0	.81	2	.72	1.4	1.2	.8	1.3	7.8	.35	.1	.06
10	0	.88	1.6	.76	1.5	1.2	.81	1.2	4.9	.3	.09	.36
11	0	.89	1.6	.8	1.6	1.3	.8	1.2	4.1	.5	.09	.04
12	0	.92	1.6	.74	1.8	1.4	.7	1.1	4.9	.63	.09	.02
13	0	1.2	1.6	.74	2	1.6	.59	1.2	4	.49	.05	0
14	0	1.3	1.6	.8	2	1.7	.93	1.6	2.4	.51	.03	0
15	0	1	1.6	.86	1.8	1.7	1	1.9	2	.61	.01	0
16	0	1.2	1.6	.8	1.7	1.6	.88	2.4	1.9	.67	0	0
17	0	1.2	1.6	.84	1.9	1.4	.89	3.9	1.7	.58	0	0
18	0	1.2	1.4	.78	1.7	1.2	.96	2.8	2.3	1.1	0	0
19	0	1.7	1.2	.84	1.4	1.2	.92	2.7	2.2	.74	0	0
20	0	2	1	.84	1.2	1.3	1	3.1	2.2	.72	0	0
21	0	1.7	1.1	.9	1.2	1.3	1	3.3	2.3	.79	0	0
22	0	1.3	1	.94	1.1	1.4	1.2	3.8	3.2	.7	0	0
23	0	1.8	1.1	1	1.1	1.6	1.1	5.8	2.5	.55	0	0
24	.2	1.9	1	1.1	1.3	1.7	.94	6.6	2	.54	0	0
25	.33	1.4	.9	1	1.2	1.5	.94	6.9	1.5	.5	0	0
26	.41	1.2	.8	1	1.1	1.4	.93	5.9	1.3	.83	.01	0
27	.52	1.3	.7	1.2	1.1	1.3	.89	4	1.3	.59	.01	0
28	.52	1.2	.74	1.3	1	1.3	.9	3	1.1	.39	.02	0
29	.39	1.3	.76	1.1	---	1.5	.85	5.4	.79	.26	.02	0
30	.33	1.3	.76	1.2	---	.9	.83	4.7	.71	.16	.03	0
31	.34	---	.7	1.4	---	.96	---	4.2	---	.22	.05	---
TOTAL	3.95	34.3	45.36	27.22	40.5	39.08	27.95	85.99	109	18.32	1.64	.59
MEAN	.13	1.14	1.46	.88	1.5	1.26	.93	2.77	3.63	.59	.05	.02
AC-FT	7.8	68	90	54	80	78	55	171	216	36	3.3	1.2
MAX	.52	2	3	1.4	2	1.7	1.2	6.9	8.9	1.1	.19	.36
MIN	0	.49	.7	.64	1	.8	.59	.82	.71	.16	0	0

CAL YR 2002 TOTAL 376 MEAN 1.03 MAX 3.2 MIN 0 AC-FT 746
 WTR YR 2003 TOTAL 433.9 MEAN 1.19 MAX 8.9 MIN 0 AC-FT 861

MAX DISCH: 10 CFS AT 00:15 ON June 7, 2003 GH 0.48 FT. SHIFT +0.10 FT. (Rating # NORDLSCO03)
 MAX GH: 1.06 FT. AT 14:45 ON May. 23, 2003 (Rating # STD02FTPF)

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08240000 RIO GRANDE ABOVE MOUTH OF TRINCHERA CREEK, NEAR LASAUSES, CO

LOCATION.--Lat 37°18'58", long 105°44'32", in sec. 35, T.36 N., R.11 E., Conejos County, Hydrologic Unit 13010002, on right bank 0.2 mi upstream from the historical channel of Trinchera Creek, 3.2 mi north of Lasauses, and 13 mi southeast of Alamosa.

DRAINAGE AREA AND PERIOD OF RECORD.--5,740 mi²., approximately, includes 2,940 mi². in closed basin in northern part of San Luis Valley, Co. May 1936 to current year. Water quality data from 1993 to 1996.

GAGE.--Graphic water-stage recorder and Sutron satellite monitoring equipment in a 4 ft. by 4 ft. timber shelter and well. Elevation of gage is 7,500 ft, estimated from nearby level lines. Although the name of the station is Rio Grande above Mouth of Trinchera Creek, over a period of years Trinchera Creek has shifted allowing the majority of Trinchera Creek water to enter the Rio Grande River above the station.

REMARKS.--Record is complete and reliable except for Dec. 12, 2002 when the well was frozen and Dec. 13, 2002 through Feb. 21, 2003 when station was closed for winter. Stage-discharge relation affected by ice Nov. 13, 16-21, 25-30, and Dec. 1-11, 2002. Record is good except for periods of no gage height and ice affected record, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--RIOTRICO11 USED FROM 01-OCT-2002 TO 30-SEP-2003

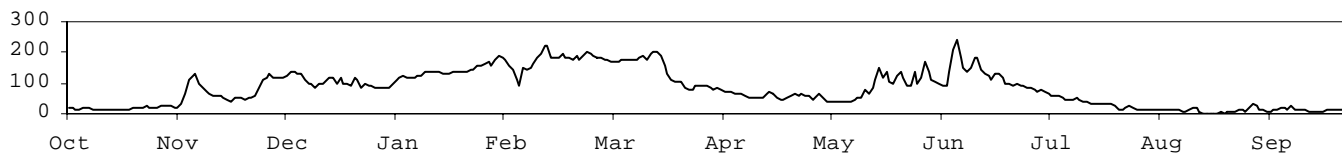
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	120	95	180	182	85	50	169	86	10	17
2	17	33	125	110	175	177	80	66	135	76	12	30
3	9.8	65	135	115	155	176	82	50	109	75	14	26
4	13	111	135	125	145	168	76	39	104	77	13	16
5	20	123	130	120	110	171	75	37	96	74	14	12
6	20	132	130	120	90	168	74	36	91	67	12	8.4
7	21	101	110	120	150	174	73	39	92	61	12	7.7
8	14	87	95	125	145	174	67	38	138	61	12	11
9	13	70	95	125	150	175	63	39	209	57	12	12
10	13	66	85	135	165	177	62	40	244	52	10	19
11	13	61	95	135	180	179	58	39	183	48	12	17
12	13	59	100	140	195	185	54	44	153	43	13	14
13	14	59	105	135	220	186	52	49	135	43	9.2	24
14	15	49	115	135	225	178	50	53	153	50	9.1	13
15	15	46	120	130	185	196	54	78	180	44	15	13
16	16	40	100	130	185	202	55	64	180	40	19	11
17	16	55	115	130	185	203	67	86	144	38	20	9.8
18	16	50	100	135	195	189	71	113	131	35	4	9.6
19	17	50	95	135	185	155	63	147	122	31	2.8	9.3
20	19	45	90	135	185	132	52	119	114	30	2.5	8.9
21	20	50	120	140	175	114	47	138	133	32	2.5	8.3
22	20	53	110	140	187	104	44	105	129	30	3	9.5
23	23	57	85	145	174	102	50	95	117	31	3.2	12
24	20	85	100	145	191	102	60	122	101	30	3.3	11
25	19	110	90	155	204	83	62	138	95	23	2.9	11
26	21	116	90	155	194	80	60	119	93	16	6.8	12
27	24	130	85	165	188	78	62	92	101	15	7.4	12
28	25	115	85	170	182	91	59	92	92	18	8.7	11
29	28	120	85	155	---	93	57	136	90	23	9.8	10
30	23	120	85	175	---	89	47	97	86	17	9.8	10
31	19	---	85	190	---	90	---	116	---	10	9.3	---
TOTAL	558.8	2277	3215	4265	4900	4573	1861	2476	3919	1333	294.3	395.5
MEAN	18	76	104	138	175	148	62	80	131	43	9.5	13.2
AC-FT	1110	4520	6380	8460	9720	9070	3690	4910	7770	2640	584	784
MAX	28	132	135	190	225	203	85	147	244	86	20	30
MIN	9.8	19	85	95	90	78	44	36	86	10	2.5	7.7

CAL YR 2002 TOTAL 31543.7 MEAN 86.4 MAX 328 MIN 3.9 AC-FT 62570
WTR YR 2003 TOTAL 30067.6 MEAN 82.4 MAX 244 MIN 2.5 AC-FT 59640

MAX DISCH: 266 CFS AT 08:00 ON Jun. 10, 2003 GH 2.55 FT. SHIFT -0.11 FT.
MAX GH: 2.91 FT. AT 01:30 ON Dec. 12, 2002

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08240500 TRINCHERA CREEK ABOVE TURNERS RANCH, NEAR FORT GARLAND, CO

LOCATION.--Lat 37°22'29", long 105°17'40", Costilla County, Hydrologic Unit 13010002, in Sangre de Cristo Grant, on right bank 0.9 mi downstream from North Fork, 1.0 mi upstream from Turners Ranch, and 8.3 mi southeast of Fort Garland.

DRAINAGE AREA.--45 mi².

GAGE.--Graphic water-stage recorder and a Sutron satellite monitoring system in a 3 ft. by 3 ft. timber shelter and well. Altitude of gage is 8,520 ft, from topographic map.

REMARKS.--Record is complete and reliable for the water year. Stage-discharge relation was affected by ice Nov. 26-28, 30, Dec. 2, 6-16, 18-31, 2002, Jan. 1-13, 15-23, 26, 29, 30, Feb. 3-13, 18-28, Mar. 1-7, 18-22, 28-30, 2003. Record is good except for periods of ice affected or no gage height record, which is poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--TRITURCO13 USED FROM 01-OCT-2002 TO 30-SEP-2003

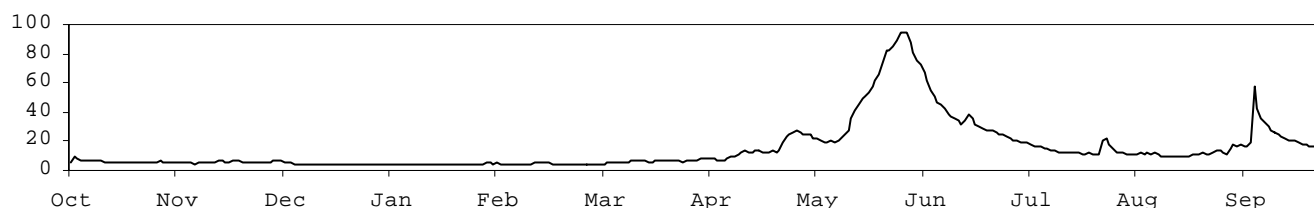
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	5.8	6.3	3.9	4.7	4	7.1	26	94	22	13	12
2	9.6	5.8	5.6	3.7	4.8	4	8.1	25	88	21	13	11
3	8.4	5.3	5.1	3.8	4.4	4.5	8.3	24	81	20	12	15
4	7.4	5.2	5	3.9	4.2	4.7	7.9	24	76	19	11	18
5	6.8	5	4.5	3.9	4.1	4.7	7.7	22	73	19	11	17
6	6.6	4.4	4.2	3.8	3.8	5.2	7.6	22	67	19	11	18
7	6.4	5.1	4.2	3.7	3.8	5.4	7.2	20	61	18	11	17
8	6.4	6.1	4.4	3.7	4	5.5	7.3	19	55	17	12	16
9	6.4	6.1	4.3	3.8	4.1	5.5	7.3	19	51	16	11	19
10	6.2	5.7	4.3	3.9	4.2	5.7	8.8	20	47	16	12	57
11	6.1	5	4.3	3.8	4.4	5.8	9.4	19	45	15	11	42
12	6.1	4.9	4.4	3.7	4.6	6	10	20	42	15	12	36
13	6	6.4	4.5	3.9	5	6.3	11	22	39	14	11	33
14	5.8	6.2	4.5	4.3	5	6.6	13	24	37	14	10	30
15	5.8	5.6	4.6	4.3	4.8	6.7	14	28	35	13	10	28
16	5.7	6	4.7	4	4.9	6.7	12	35	34	13	10	26
17	5.6	6.8	4.2	4	4.9	6.4	13	41	32	13	10	24
18	5.7	6.3	4.4	4	4.6	6	14	45	34	12	10	23
19	5.8	6.7	4.3	4.2	4.1	6	14	49	38	12	10	22
20	5.5	5.9	4.4	4.1	4	6.2	13	51	36	12	9.4	21
21	5.5	5.5	4.5	4.2	4.1	6.2	12	54	32	12	9.1	20
22	5.5	5.4	4.2	4.2	4.1	6.2	12	58	30	11	9.9	20
23	6	5.4	4	4.4	4.1	6.5	14	62	29	11	11	19
24	6	5.4	3.7	4.5	4.3	6.7	13	66	28	12	11	18
25	5.7	5.2	3.8	4.4	4.3	6.4	14	74	27	11	11	18
26	5.6	5	3.9	4.3	4.3	6.5	19	82	27	11	12	17
27	6.2	5	4	4.6	4.2	6.5	23	82	26	11	11	16
28	5.7	5.4	4.1	4.6	4.1	6	24	85	25	20	11	16
29	6.1	6.7	4	4.3	---	6.2	26	89	24	22	13	15
30	5.5	6.4	3.9	5.4	---	6.2	28	94	23	18	14	15
31	5.8	---	3.9	4.8	---	6.5	---	95	---	15	14	---
TOTAL	191.4	169.7	136.2	128.1	121.9	181.8	385.7	1396	1336	474	347.4	659
MEAN	6.2	5.7	4.4	4.1	4.4	5.9	12.9	45	45	15	11.2	22
AC-FT	380	337	270	254	242	361	765	2770	2650	940	689	1310
MAX	9.6	6.8	6.3	5.4	5	6.7	28	95	94	22	14	57
MIN	5.5	4.4	3.7	3.7	3.8	4	7.1	19	23	11	9.1	11

CAL YR 2002 TOTAL 2030.4 MEAN 5.56 MAX 10 MIN 1.4 AC-FT 4030
WTR YR 2003 TOTAL 5527.2 MEAN 15.1 MAX 95 MIN 3.7 AC-FT 10960

MAX DISCH: 100 CFS AT 18:00 ON Jun. 1, 2003 GH 2.23 FT. SHIFT -0.04 FT.
MAX GH: 2.23 FT. AT 18:00 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08241000 TRINCHERA CREEK ABOVE MOUNTAIN HOME RESERVOIR, CO

LOCATION.--Lat 37°23'40", long 105°22'10", NE¼SW¼ sec. 31, T.31 S., R.71 W., (unsurveyed) Costilla County, Hydrologic Unit 13010002, on right bank 150 ft downstream from bridge, 1000 ft upstream from Mountain Home Reservoir, and 5 mi southeast of Ft. Garland, Co.

DRAINAGE AREA.--57 mi².

GAGE.--Graphic water-stage recorder and a Sutron Satellite system in a 4-ft. diameter corrugated metal shelter and well.

REMARKS.--Record is complete and reliable. Stage-discharge relation was affected by ice Dec. 22-27, 2002, Jan. 17, Feb. 6-12, 2003. Record is good except for periods of ice affected record which are poor. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--TRIMTNC07 USED FROM 01-OCT-2002 TO 30-SEP-2003

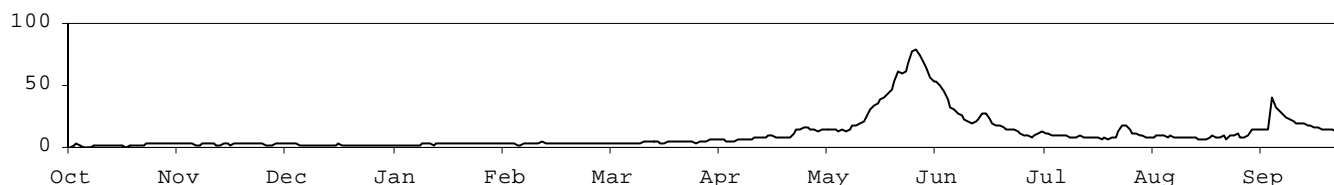
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	3	3.1	1.8	3.4	3.2	4.9	14	75	9.1	12	8.8
2	2.4	3.2	2.8	1.7	3.5	3.3	5.7	14	71	9.5	11	8.1
3	3.4	2.9	3.3	1.8	3.4	2.8	6.2	13	64	8.8	10	9.9
4	1.1	2.9	2.9	1.9	2.5	3.4	6	15	57	9.7	9.3	15
5	.49	2.7	2.7	2.1	2.5	3.2	5.9	14	54	12	8.7	14
6	.51	2.2	1.5	2.3	2.2	2.8	5.9	15	53	13	8.5	15
7	.52	2.4	1.6	2.2	2.3	3.3	5.6	14	50	12	8.3	14
8	1.3	3.2	2.1	2.3	2.6	3.4	4.9	14	45	11	9.1	14
9	1.5	3.7	1.9	2.3	3	3.4	4.2	13	38	9.8	9.4	15
10	1.8	3.6	2	2.5	3.2	3.5	5.8	14	33	9.4	9.5	40
11	1.8	2.9	2	2.7	3.3	3.7	6	13	30	9.4	8.2	33
12	1.8	2	1.7	2.6	3.5	3.8	5.8	15	28	9.4	9.5	29
13	1.7	2.2	1.7	2.4	4.3	3.9	7.1	18	26	9	7.9	27
14	2	3.6	2	2.8	3.9	4.3	7.2	17	23	8.2	7.3	25
15	2.4	3.4	1.8	2.9	3.6	4.6	8.1	19	21	8.1	7.3	23
16	2.4	2.1	2	2.6	3.2	4.6	7.3	21	20	8.8	7.7	21
17	.68	2.7	2.5	2.6	3.3	4.6	7.6	24	21	8.9	7.7	20
18	1.3	2.9	2.2	2.7	3.4	4.5	8.7	30	23	7.9	7.5	19
19	1.9	2.6	1.4	3.1	3.3	2.9	9.1	34	28	7.4	7.4	19
20	2	2.9	1.4	3.1	2.7	3.5	9.6	35	27	7.9	6.6	18
21	2	3.1	1.7	3.3	3	5.4	8.5	39	22	8.2	6.2	17
22	2.1	3.1	1.5	3.1	3.2	4.5	8.2	41	20	7.3	6.8	16
23	2.8	3.2	1.6	3.3	3	4.8	8.3	44	18	7.1	8.3	16
24	2.8	3	1.5	3.5	3.6	5.2	7.7	47	17	7.8	8.9	14
25	2.6	3	1.4	3.3	3.5	5	7.8	53	16	6.9	8.1	14
26	2.6	2	1.5	3.2	3.3	5.2	11	62	15	7.4	8.5	14
27	3.3	1.5	1.4	3.4	3.4	5.4	15	59	14	7.3	9	14
28	2.9	1.7	1.4	3.4	3.4	4.1	15	62	14	13	7.1	13
29	2.9	2.5	1.5	3.1	---	3.7	16	68	13	17	9.2	13
30	2.9	2.7	1.7	3.3	---	4.2	16	77	11	17	10	12
31	2.8	---	1.7	3.5	---	4.9	---	79	---	14	11	---
TOTAL	61.23	82.9	59.5	84.8	89.5	125.1	245.1	997	947	302.3	266	530.8
MEAN	1.98	2.8	1.9	2.7	3.2	4	8.2	32	32	9.8	8.6	17.7
AC-FT	121	164	118	168	178	248	486	1980	1880	600	528	1050
MAX	3.4	3.7	3.3	3.5	4.3	5.4	16	79	75	17	12	40
MIN	.49	1.5	1.4	1.7	2.2	2.8	4.2	13	11	6.9	6.2	8.1

CAL YR	2002	TOTAL	927.95	MEAN	2.54	MAX	6.5	MIN	0.01	AC-FT	1840
WTR YR	2003	TOTAL	3791.23	MEAN	10.4	MAX	79	MIN	.49	AC-FT	7520

MAX DISCH: 83.1 CFS AT 02:30 ON May. 31, 2003 GH 1.32 FT. SHIFT 0.04 FT.
MAX GH: 1.32 FT. AT 02:30 ON May. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08241500 SANGRE DE CRISTO CREEK NEAR FORT GARLAND, CO

LOCATION.--Lat 37°25'30", long 105°24'52", Costilla County, Hydrologic Unit 13010002, in Sangre de Cristo Grant, on left bank at ice house road bridge, 2,200 ft upstream from Garland Canal, 1.0 mi east of Fort Garland, and 6.3 mi upstream from Ute Creek.

DRAINAGE AREA.--190 mi².

GAGE.--Graphic water-stage recorder with satellite monitoring system in a 4' diameter CMP shelter and well. Altitude of gage is 7,900 ft, from topographic map.

REMARKS.--Record is complete and reliable except for December 26-December 31, 2002 when the DCP malfunctioned and recorder float was frozen, and January 1-23, 2003 when the inlets were frozen. Stage-discharge relation was affected by backwater from beaver dams Feb. 7 - Mar. 11, Aug. 29-31, Sep. 1, 3, 15-19, 21-29, 2003. Record is good except for periods of no gage-height and backwater affected record, which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

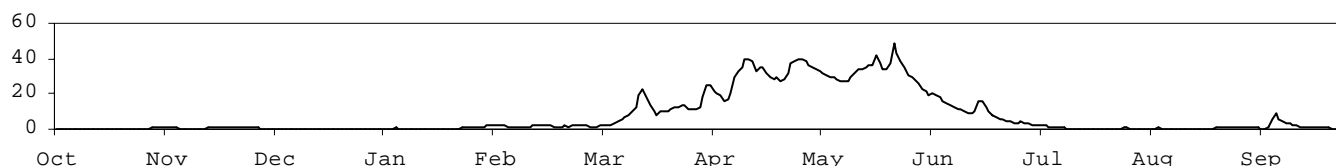
RATING TABLE.--SANFTGCO18 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.65	.55	.5	1.9	1.6	13	39	28	4.1	.55	.7
2	.4	.64	.55	.4	2.6	1.5	18	36	26	3.6	.46	.68
3	.38	.64	.55	.4	2.1	1.6	25	35	23	3.1	.49	.7
4	.39	.61	.55	.5	1.7	1.9	25	34	21	2.8	.44	.7
5	.38	.55	.5	.6	1.8	1.8	22	33	19	2.5	.39	.61
6	.39	.55	.45	.5	1.6	1.8	20	32	20	2.2	.44	.57
7	.38	.55	.45	.4	1.5	2.5	19	31	19	2	.47	.55
8	.38	.55	.45	.4	1.3	3.5	16	30	18	1.7	.44	.49
9	.4	.56	.45	.4	1.5	4.5	17	29	16	1.4	.84	.79
10	.4	.55	.4	.5	1.4	6	20	28	15	1	.49	6.1
11	.4	.55	.35	.4	1.6	7	29	27	14	.76	.39	8.7
12	.4	.55	.35	.4	1.5	8.2	33	27	12	.65	.41	5.4
13	.42	.6	.4	.35	2	9.8	35	27	11	.59	.37	4.2
14	.44	.65	.4	.35	1.9	12	40	30	11	.47	.34	3.3
15	.45	.65	.35	.4	1.8	19	40	32	9.8	.52	.34	3
16	.44	.65	.4	.4	1.7	23	38	34	9.2	.55	.29	2.6
17	.45	.65	.4	.35	2	18	33	34	9	.44	.33	2
18	.45	.65	.4	.35	1.7	14	35	35	9.7	.37	.29	1.6
19	.45	.65	.4	.35	1.5	10	35	36	16	.28	.3	1
20	.48	.61	.35	.35	1.4	7.4	32	36	16	.33	.26	.68
21	.53	.63	.35	.4	1.5	10	30	42	13	.38	.27	.68
22	.54	.64	.4	.4	1.7	10	28	37	9.9	.3	.23	.66
23	.55	.63	.4	.5	1.6	9.8	29	34	8.1	.27	.37	.64
24	.47	.63	.4	.63	1.7	11	27	34	6.7	.24	.49	.62
25	.49	.62	.4	.87	1.8	13	28	37	6.1	.25	.63	.6
26	.55	.65	.4	.84	1.7	13	32	49	5.5	.25	.64	.58
27	.55	.65	.35	1.2	1.8	14	37	43	5	.24	.82	.54
28	.64	.56	.35	1.4	1.7	14	38	39	4.2	.36	.88	.54
29	.63	.55	.4	1.3	---	11	40	35	3.6	.42	.82	.52
30	.65	.55	.5	1.5	---	11	40	31	3.6	.6	.7	.52
31	.58	---	.5	1.9	---	11	---	29	---	.91	.7	---
TOTAL	14.41	18.17	13.15	19.24	48	282.9	874	1055	388.4	33.58	14.88	50.27
MEAN	.46	.61	.42	.62	1.7	9.1	29	34	12.9	1.08	.48	1.68
AC-FT	29	36	26	38	95	561	1730	2090	770	67	30	100
MAX	.65	.65	.55	1.9	2.6	23	40	49	28	4.1	.88	8.7
MIN	.35	.55	.35	.35	1.3	1.5	13	27	3.6	.24	.23	.49
CAL YR 2002	TOTAL	860.66	MEAN	2.4	MAX	11	MIN	.16	AC-FT	1710		
WTR YR 2003	TOTAL	2812	MEAN	7.7	MAX	49	MIN	.23	AC-FT	5580		

MAX DISCH: 96.6 CFS AT 22:45 ON May. 25, 2003 GH 2.58 FT. SHIFT -0.04 FT.
MAX GH: 2.58 FT. AT 22:45 ON May. 25, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08242500 UTE CREEK NEAR FORT GARLAND, CO

LOCATION.--Lat 37°26'50", long 105°25'33", Costilla County, Hydrologic Unit 13010002, in Sangre de Cristo Grant, on left bank 2,300 ft upstream from Newton ditch, 1.4 mi north of Fort Garland, and 5.7 mi upstream from mouth.

DRAINAGE AREA AND PERIOD OF RECORD.--32 mi². Staff gage established on weir Mar. 1915 and operated to Oct. 1916. Continuous record from May 1923 to present at various locations close to present site.

GAGE.--Graphic water-stage recorder and a Sutron satellite monitoring system in a 4-ft. diameter CMP shelter and well. Altitude of gage is 8,045 ft, from topographic map.

REMARKS.--Record is complete and reliable except for Dec. 5, 2002 through Mar. 16, 2003 when the station was closed for the winter, and March 28, 29, 2003 when the well was frozen. Stage-discharge relation was affected by ice Nov. 5 - 7, 10 - 23, 26 - 30, Dec. 1 - 4, 2002. Record is good except for periods of no gage-height and ice affected record which are poor. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--UTEFTGCO17 USED FROM 01-OCT-2002 TO 30-SEP-2003

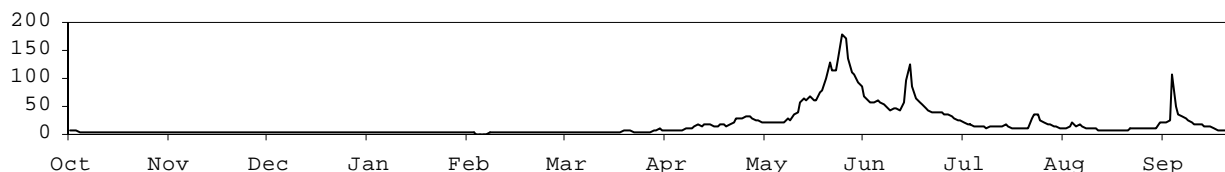
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	2.3	3.5	2.3	2.1	2.7	6.8	31	135	35	20	10
2	8.1	2.5	3.2	2.2	2.1	2.7	8.7	29	109	34	18	9.8
3	6.5	2.2	3.1	2.3	1.8	3	9.1	26	107	31	17	10
4	4.3	2.2	2.9	2.5	1.8	3	7.7	25	93	29	14	10
5	3.7	2.3	2.8	2.4	1.6	2.9	7.3	23	84	26	13	11
6	4.8	2.5	2.6	2.3	1.5	2.9	6.9	22	67	24	12	20
7	4.3	3	2.5	2.1	1.5	3.2	6.4	21	60	21	11	21
8	3.8	4.3	2.7	2.1	1.6	3.4	5.4	21	56	18	12	20
9	3.4	4.5	2.5	2.2	1.8	3.4	6.4	20	58	17	13	25
10	3.1	3.5	2.5	2.3	2	3.5	8.8	20	59	16	23	108
11	3	3.2	2.6	2.2	2.2	3.5	12	20	56	14	16	50
12	2.6	2.9	2.7	2.1	2.3	3.5	11	22	53	14	18	37
13	2.5	3.2	2.8	2.2	2.4	3.8	11	27	46	13	14	32
14	2.4	3.4	2.8	2.3	2.4	4.4	15	24	44	12	12	28
15	2.3	3.1	3	2.3	2.2	4.7	18	36	46	13	11	24
16	2.2	3.2	3.2	2.1	2.2	4.7	16	38	47	13	9.7	21
17	2.1	3.4	3	2.1	2.4	4.6	18	57	43	14	9.5	19
18	2.1	3.4	2.7	2.2	2.3	4.5	19	64	56	14	8.9	17
19	2	3.4	2.4	2.3	2.1	4.4	18	60	98	14	8.8	17
20	2	3.4	2.5	2.1	2.1	5.1	16	67	124	18	7.6	15
21	1.9	3.4	2.6	2.2	2.4	5.3	16	61	84	14	7.2	14
22	1.9	3.4	2.4	2.2	2.4	4.7	17	60	64	12	7.4	14
23	2	3.5	2.4	2.3	2.4	5.7	17	76	58	11	7.9	11
24	2.1	3.4	2.3	2.2	2.7	6.7	15	80	52	12	7.2	7.5
25	2.2	3.2	2.2	2.1	2.7	5.4	17	99	48	10	7	7.3
26	2.1	2.9	2.2	2.1	2.7	5	22	128	44	12	7.6	7.2
27	2.5	2.7	2.2	2.2	2.7	5.2	28	113	41	12	8.3	7.3
28	2.3	2.8	2.2	2.2	2.7	3.8	28	114	39	30	9.5	7.1
29	2.4	3	2.6	1.9	---	3.5	30	134	38	37	11	7
30	2	3.2	2.3	2.1	---	3.7	31	179	39	34	9.8	6.8
31	2.2	---	2.3	2.1	---	5.1	---	171	---	25	12	---
TOTAL	95.2	93.4	81.7	68.2	61.1	128	448.5	1868	1948	599	363.4	594
MEAN	3.1	3.1	2.6	2.2	2.2	4.1	14.9	60	65	19	11.7	19.8
AC-FT	189	185	162	135	121	254	890	3710	3860	1190	721	1180
MAX	8.1	4.5	3.5	2.5	2.7	6.7	31	179	135	37	23	108
MIN	1.9	2.2	2.2	1.9	1.5	2.7	5.4	20	38	10	7	6.8

CAL YR 2002 TOTAL 1207.44 MEAN 3.31 MAX 8.6 MIN 0 AC-FT 2390
WTR YR 2003 TOTAL 6348.5 MEAN 17.4 MAX 179 MIN 1.5 AC-FT 12590

MAX DISCH: 212 CFS AT 22:15 ON May. 30, 2003 GH 3.11 FT. SHIFT 0.04 FT.
MAX GH: 3.11 FT. AT 22:15 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08243500 TRINCHERA CREEK BELOW SMITH RESERVOIR, NEAR BLANCA, CO

LOCATION.--Lat 37°23'10", long 105°33'02", in sec. 4, T.31 S., R.73 W., (unsurveyed), Costilla County, Hydrologic Unit 13010002, on right bank 150 ft downstream from bridge, 0.6 mi downstream from Smith Reservoir, and 4.0 mi southwest of Blanca, Co.

DRAINAGE AREA.--396 mi².

GAGE.--Graphic water-stage recorder with satellite telemetry in a 4' CMP shelter and well. Altitude of gage is 7,700 ft, estimated from nearby U.S. Coast and Geodetic Survey level lines.

REMARKS.--Record is complete and reliable except for Jan. 23 through Feb. 9, 2003 when the inlets were frozen. The shaft encoder float was in oil cylinder and therefore was only record used from Dec. 9, 2002 through Feb. 27, 2003 when remainder of well was frozen. Stage-discharge relation affected by ice Dec. 19-22, 24-29, 31, 2002, Jan. 2, 3, 18, 19, and Feb. 10, 2003. Record is good except for periods of no gage-height record, which are fair. Station maintained and record developed by the Division III Hydrographic Staff.

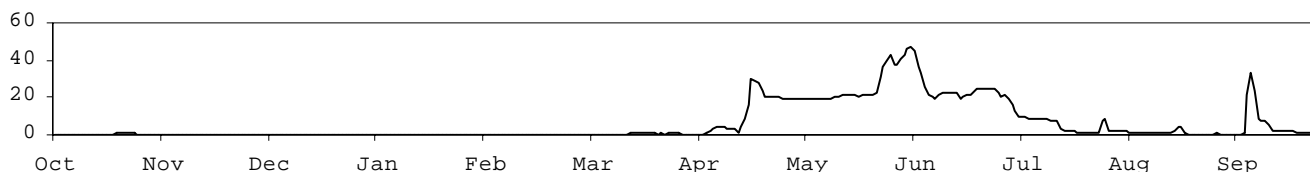
RATING TABLE.--TRISMIC011 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.41	.41	.41	.47	.47	.48	19	37	20	2.2	.57
2	.37	.42	.43	.4	.47	.47	.47	19	41	21	2.1	.29
3	.31	.41	.46	.4	.47	.47	.48	19	43	19	2.1	.2
4	.32	.5	.47	.46	.47	.47	.5	19	46	16	2	.25
5	.32	.46	.43	.46	.47	.47	.5	19	47	13	2	.2
6	.32	.47	.4	.47	.47	.47	.47	19	45	10	1.7	.24
7	.33	.47	.4	.46	.47	.47	1.6	19	36	10	1.5	.42
8	.34	.48	.4	.48	.47	.47	2.5	19	33	9.2	1.4	.42
9	.35	.51	.41	.47	.47	.47	3.1	19	26	8.3	1.3	.95
10	.38	.53	.43	.47	.47	.46	4.1	19	21	8.2	1	.21
11	.38	.5	.42	.47	.46	.47	3.8	19	20	8.2	.94	.33
12	.4	.48	.43	.47	.44	.49	3.8	19	19	8.2	.81	.24
13	.45	.53	.41	.48	.4	.49	3.6	19	21	8.1	.81	8.4
14	.47	.49	.41	.47	.4	.52	3.7	20	22	8.1	.81	7.8
15	.47	.46	.42	.47	.44	.52	2.7	20	22	8	.81	7.6
16	.49	.47	.42	.48	.45	.54	1.5	21	22	8	.81	5.6
17	.49	.47	.4	.48	.44	.54	4.5	21	22	7.4	.81	1.8
18	.53	.47	.37	.47	.44	.59	8.4	21	22	3	.82	1.8
19	.54	.47	.33	.47	.46	.58	16	21	19	2	.81	1.8
20	.54	.47	.33	.49	.46	.57	30	21	20	1.9	2.3	1.8
21	.54	.47	.33	.49	.47	.58	29	20	21	1.8	4.6	1.8
22	.54	.47	.33	.48	.47	.57	28	21	21	1.7	4	1.7
23	.54	.47	.36	.47	.47	.54	24	21	22	1.6	1.1	1.7
24	.54	.44	.33	.47	.43	.53	20	21	25	1.5	.21	1.6
25	.5	.41	.27	.47	.4	.56	20	21	25	1.4	.13	1.6
26	.49	.42	.33	.47	.4	.53	20	22	25	1.4	.18	1.6
27	.48	.42	.33	.47	.44	.54	20	31	25	1.4	.16	1.6
28	.48	.43	.33	.47	.47	.61	20	36	25	1.4	.3	1.6
29	.48	.43	.33	.47	---	.62	19	40	25	1.4	.24	1.6
30	.42	.44	.35	.47	---	.57	19	43	23	7.4	.46	1.6
31	.4	---	.4	.47	---	.52	---	38	---	8.5	.45	---
TOTAL	13.5	13.87	11.87	14.43	12.64	16.17	311.2	706	821	227.1	38.86	134.54
MEAN	.44	.46	.38	.47	.45	.52	10.4	23	27	7.3	1.25	4.48
AC-FT	27	28	24	29	25	32	617	1400	1630	450	77	267
MAX	.54	.53	.47	.49	.47	.62	30	43	47	21	4.6	33
MIN	.29	.41	.27	.4	.4	.46	.47	19	19	1.4	.13	.2
CAL YR 2002	TOTAL	454.74	MEAN	1.25	MAX	6.0	MIN	0	AC-FT	902		
WTR YR 2003	TOTAL	2321.18	MEAN	6.36	MAX	47	MIN	.13	AC-FT	4600		

MAX DISCH: 50.4 CFS AT 10:30 ON Jun. 4, 2003 GH 3.67 FT. SHIFT 0.05 FT.
MAX GH: 3.67 FT. AT 10:30 ON Jun. 4, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08245000 CONEJOS RIVER BELOW PLATORO RESERVOIR, CO

LOCATION.--Lat 37°21'18", long 106°32'37", Conejos County, Hydrologic Unit 13010005, on left bank 1,100 ft downstream from valve house for Platoro Reservoir and 0.7 mi northwest of Platoro.

DRAINAGE AREA AND PERIOD OF RECORD.--40 mi². 1937 - 1953 at site one mile downstream. May 1952 to current year at present site.

GAGE.--Graphic water-stage recorder and Sutron satellite monitoring system in a timber shelter and concrete well. The control is a concrete weir with sloping sides. Datum of gage is 9,866.60 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except for October 29, 2002 through March 26, 2003 when the station was closed for the winter. The gage height was not representative of the flow on October 24-28, 2002 because the lower inlet was partially blocked and not allowing the well to fill or drain satisfactorily during large flow changes. On March 26, 2003, the lower inlet was repaired and two additional inlet holes were drilled through the well wall to fix this problem. Record is good except for periods of no gage-height record and 'e' record which are fair. Station maintained and record developed by Div. III Hydrographic Staff.

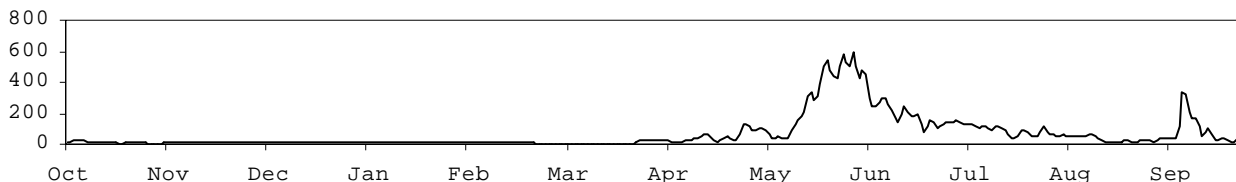
RATING TABLE.--CONPLACO13 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	7.2	7.2	7.2	6.8	6.4	31	95	593	138	59	23
2	17	7.2	7.2	7.2	6.7	6.3	31	92	501	138	63	17
3	26	7.2	7.2	7.2	6.7	6.3	27	99	426	150	53	26
4	31	7.2	7.2	7.2	6.7	6.3	26	98	475	141	55	42
5	31	7.2	7.2	7.1	6.7	6.3	25	87	449	131	64	44
6	20	7.2	7.2	7.1	6.7	6.3	17	64	295	130	54	42
7	15	7.2	7.2	7.1	6.7	6.3	13	42	241	127	52	42
8	15	7.2	7.2	7.1	6.7	6.3	13	42	251	124	56	42
9	17	7.2	7.2	7.1	6.6	6.2	15	50	277	122	56	36
10	19	7.2	7.2	7.1	6.6	6.2	24	39	291	108	53	120
11	15	7.2	7.2	7.1	6.6	6.2	25	33	291	112	55	336
12	13	7.2	7.2	7	6.6	6.2	29	45	264	121	55	323
13	13	7.2	7.2	7	6.6	6.2	37	85	221	98	62	201
14	13	7.2	7.2	7	6.6	6.2	40	132	164	87	62	164
15	13	7.2	7.2	7	6.6	6.2	55	149	144	110	48	164
16	8.6	7.2	7.2	7	6.5	6.1	67	187	200	113	38	112
17	6	7.2	7.2	7	6.5	6.1	63	208	249	104	21	52
18	6.1	7.2	7.2	7	6.5	6.1	46	311	208	93	14	78
19	7	7.2	7.2	6.9	6.5	6.1	25	330	179	61	14	106
20	7.4	7.2	7.2	6.9	6.5	6.1	18	281	186	38	14	67
21	7.4	7.2	7.2	6.9	6.5	6.1	26	314	191	38	14	29
22	7.7	7.2	7.2	6.9	6.5	6.1	37	385	132	58	15	22
23	8.4	7.2	7.2	6.9	6.4	6	49	500	83	87	19	36
24	16	7.2	7.2	6.9	6.4	6	44	548	111	91	21	35
25	11	7.2	7.2	6.9	6.4	6	28	482	151	72	21	25
26	5.4	7.2	7.2	6.8	6.4	14	27	433	136	53	19	18
27	5.4	7.2	7.2	6.8	6.4	25	61	426	97	48	17	18
28	5.4	7.2	7.2	6.8	6.4	24	123	506	111	53	15	37
29	5.4	7.2	7.2	6.8	---	23	135	582	129	83	23	47
30	6.4	7.2	7.2	6.8	---	23	110	526	136	119	29	39
31	7.2	---	7.2	6.8	---	24	---	509	---	78	28	---
TOTAL	395.8	216	223.2	216.6	183.8	287.6	1267	7680	7182	3026	1169	2343
MEAN	12.8	7.2	7.2	7	6.6	9.3	42	248	239	98	38	78
AC-FT	785	428	443	430	365	570	2510	15230	14250	6000	2320	4650
MAX	31	7.2	7.2	7.2	6.8	25	135	582	593	150	64	336
MIN	5.4	7.2	7.2	6.8	6.4	6	13	33	83	38	14	17
CAL YR 2002	TOTAL	11821	MEAN	32.4	MAX	231	MIN	0.6	AC-FT	23450		
WTR YR 2003	TOTAL	24190	MEAN	66.3	MAX	593	MIN	5.4	AC-FT	47980		

MAX DISCH: 626 CFS AT 08:45 ON Jun. 1, 2003 GH 3.11 FT. SHIFT -0.03 FT.
MAX GH: 3.11 FT. AT 08:45 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08246500 CONEJOS RIVER NEAR MOGOTE, CO

LOCATION.--Lat 37°03'14", long 106°11'13", in SE¼SE¼ sec. 34, T.33 N., R.7 E., Conejos County, Hydrologic Unit 13010005, on left bank 75 ft downstream from bridge on State Highway 174, 0.4 mi downstream from Fox Creek, 5.3 mi west of Mogote, and 10 mi west of Antonito.

DRAINAGE AREA AND PERIOD OF RECORD.--282 mi². Intermittent, non-recording data from 1903-1915 at various sites. Water stage recorder from 1915-Oct. 1988 at different site. Oct. 1988-present, water stage recorder at current site.

GAGE.--Graphic water-stage recorder in a 5 ft. diameter metal shelter and well. Gage is also equipped with a Sutron river satellite monitoring system with thermistor. Datum of gage is 8,271.54 ft, Colorado State Highway datum.

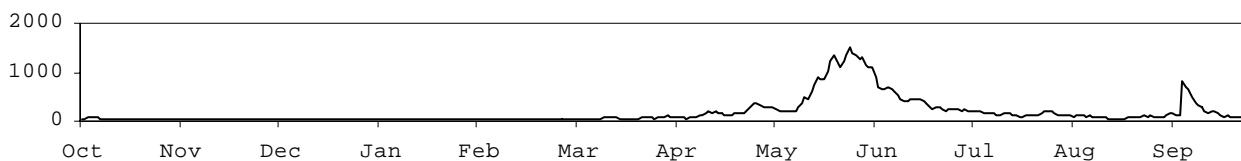
REMARKS.--Record is complete and reliable. Stage-discharge relation was affected by ice Nov. 28, 2002 through March 10, 2003. Record is good except for the periods of no gage height and ice affected record, which are fair to poor. ** This year it was discovered that the datum of the gaging station had been miscalculated in 1991. The datum was previously calculated to be at an elevation of 8,273.69 ft. (2.15 ft. higher than the datum at the previous gage location). In actuality, the datum of the existing gaging station is 8,269.39 ft. (2.15 ft. lower than the datum at the previous gage location). Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--CONMOGCO12 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	38	29	29	33	29	91	308	1250	237	145	88
2	59	40	27	30	31	28	104	299	1310	230	138	71
3	67	38	28	32	30	29	90	305	1160	224	134	69
4	72	38	27	33	29	34	80	301	1120	230	108	95
5	74	35	23	34	28	33	76	273	1090	210	106	114
6	70	32	23	34	25	32	72	244	898	206	108	158
7	61	35	22	33	24	38	63	224	677	201	99	151
8	53	37	23	32	25	40	52	199	643	189	112	138
9	52	46	23	34	26	43	62	191	658	184	115	142
10	51	48	23	33	26	43	76	198	685	174	116	828
11	51	41	23	32	28	53	95	185	663	157	102	704
12	48	36	23	32	32	59	113	206	609	171	108	663
13	44	37	23	32	36	73	120	275	537	169	101	488
14	43	42	24	34	39	87	153	353	465	136	101	362
15	43	42	24	33	40	84	184	477	396	132	92	323
16	42	30	24	32	37	78	173	469	393	164	84	294
17	41	36	25	33	39	63	184	604	453	151	72	220
18	37	36	24	32	41	56	174	752	447	143	58	161
19	36	36	24	33	36	51	151	890	440	129	48	199
20	35	40	23	34	34	46	116	847	469	109	44	202
21	35	42	24	35	34	51	116	862	407	98	44	143
22	34	42	24	34	32	45	140	1020	364	88	46	110
23	37	41	26	34	31	54	154	1230	293	108	59	96
24	41	39	25	35	33	61	149	1340	252	140	70	104
25	44	40	25	34	33	68	161	1280	278	128	71	97
26	49	33	25	31	31	68	183	1090	284	108	67	85
27	44	28	27	33	30	75	225	1210	246	105	63	76
28	45	30	28	33	30	66	297	1340	221	150	70	72
29	45	32	29	31	---	58	370	1500	232	193	105	86
30	39	30	30	32	---	64	352	1380	236	222	96	93
31	39	---	30	33	---	77	---	1360	---	205	108	---
TOTAL	1481	1120	778	1016	893	1686	4376	21212	17176	5091	2790	6432
MEAN	48	37	25	33	32	54	146	684	573	164	90	214
AC-FT	2940	2220	1540	2020	1770	3340	8680	42070	34070	10100	5530	12760
MAX	74	48	30	35	41	87	370	1500	1310	237	145	828
MIN	34	28	22	29	24	28	52	185	221	88	44	69
CAL YR 2002	TOTAL	27891	MEAN	76.4	MAX	409	MIN	10	AC-FT	55320		
WTR YR 2003	TOTAL	64051	MEAN	175	MAX	1500	MIN	22	AC-FT	127000		

MAX DISCH: 1640 CFS AT 05:15 ON May. 29, 2003 GH 4.80 FT. SHIFT 0 FT.
MAX GH: 4.80 FT. AT 05:15 ON May. 29, 2003
FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08247500 SAN ANTONIO RIVER AT ORTIZ, CO

LOCATION.--Lat 36°59'35", long 106°02'17", in NE¼SE¼ sec. 24, T.32 N., R.8 E., Rio Arriba County, New Mexico, Hydrologic Unit 13010005, on left bank 800 ft south of Colorado-New Mexico State line, 0.4 mi southeast of Ortiz, and 0.4 mi upstream from Los Pinos River.

DRAINAGE AREA AND PERIOD OF RECORD.--110 mi². April 1919 to Oct. 1920, Oct. 1924 to current year(no winter record prior to 1941). Monthly data only for some periods.

GAGE.--Graphic water-stage recorder in metal pipe shelter and well. Sutron satellite monitoring system. Elevation of gage is 7,970 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except for the periods Dec. 16, 2002 - Feb. 18, 2003 when the station was closed for the winter, and Dec. 7-15, 2002, Feb. 21 - Mar. 3, 2003 when floats were affected by ice in well. The stage-discharge relation was affected by ice Nov. 27 - Dec. 6, 2002 and Feb. 19, 20, Mar. 4-10, 2003. There was no flow Jul. 1 - Aug. 25, 2003. Record is good except for periods of no gage height and ice affected record, which are fair to poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--SANORTCO13 USED FROM 01-OCT-2002 TO 30-SEP-2003

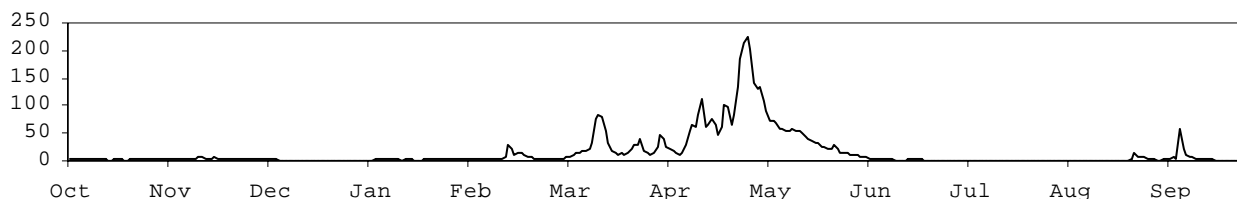
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.9	2.8	1.2	4	3.8	24	141	10	0	0	3.3
2	2.8	3.5	2.6	1.2	3.8	3.8	46	129	12	0	0	2.3
3	3.4	3.5	2.6	1.7	3.4	4	39	133	8.6	0	0	1.8
4	4.1	3.6	2.2	2.2	3.2	8	27	107	6.6	0	0	1.7
5	3.2	3.6	1.4	2.2	2.9	8	22	89	5.6	0	0	2.2
6	3.1	3.2	1.2	2.2	2.8	10	19	74	4.3	0	0	2.2
7	2.7	3.1	.9	2	2.8	14	16	73	3.9	0	0	5.3
8	2.3	3.2	1.1	2	3	16	9.3	68	3.6	0	0	7.5
9	2.1	3.4	1.1	2.2	3.2	17	16	57	2.9	0	0	4.1
10	2.1	8.6	1.1	2.2	3.3	18	29	59	2.6	0	0	59
11	2	6.9	1.1	2	3.7	21	55	53	2.1	0	0	22
12	1.9	5.4	1	1.8	4.7	32	67	56	2.1	0	0	12
13	1.7	3.9	1.1	2	8	76	63	57	2	0	0	7.6
14	1.8	5.1	1.2	2.2	30	84	85	55	1.6	0	0	5.5
15	2	5.6	1.3	2.2	20	81	114	53	1.4	0	0	4.3
16	1.9	3.6	1.3	1.8	12	56	62	52	1.4	0	0	3.4
17	1.9	3.2	1.2	1.8	14	31	66	44	1.6	0	0	2.8
18	1.8	2.6	.9	1.8	13	19	77	41	2.3	0	0	2.4
19	1.8	3	.8	2.3	9.6	15	64	38	2	0	0	2.1
20	2	3	.9	2.5	8	10	47	34	3	0	0	1.9
21	2.1	3.3	.9	2.7	7.8	16	61	31	3.7	0	0	1.8
22	2.1	3.2	.9	2.7	5.4	10	100	27	2.3	0	0	1.7
23	2.2	3.7	.9	3	4.3	14	99	24	1.4	0	0	1.6
24	2.4	4.2	.8	3	4.8	22	67	23	1	0	0	1.5
25	3.3	3.7	.8	2.7	4.9	30	85	22	.72	0	0	1.5
26	3.4	3.3	.8	2.7	4.6	30	134	29	.55	0	5	1.4
27	3.7	3.2	.9	3.2	4.2	39	186	20	.4	0	15	1.3
28	4.8	2.8	1.1	3.2	4.1	19	215	16	.32	0	7.4	1.3
29	4.8	3.1	1.3	3	---	15	223	14	.16	0	7.3	1.2
30	4.2	3	1.2	3.2	---	11	204	13	.07	0	7.8	1.2
31	3.6	---	1.3	3.7	---	14	---	11	---	0	4.3	---
TOTAL	84.4	115.4	38.7	72.6	195.5	747.6	2321.3	1643	90.22	0	46.8	167.9
MEAN	2.7	3.9	1.25	2.3	7	24.1	77.4	53	3.01	0	1.51	5.6
AC-FT	167	229	77	144	388	1480	4600	3260	179	0	93	333
MAX	4.8	8.6	2.8	3.7	30	84	223	141	12	0	15	59
MIN	1.7	2.6	.8	1.2	2.8	3.8	9.3	11	.07	0	0	1.2

CAL YR 2002 TOTAL 895.46 MEAN 2.45 MAX 18 MIN 0 AC-FT 1780
WTR YR 2003 TOTAL 5523.42 MEAN 15.1 MAX 223 MIN 0 AC-FT 10960

MAX DISCH: 305 CFS AT 03:45 ON Apr. 29, 2003 GH 3.27 FT. SHIFT -0.09 FT.
MAX GH: 3.27 FT. AT 03:45 ON Apr. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08248000 LOS PINOS RIVER NEAR ORTIZ, CO

Location.--Lat 36°58'56", long 106°04'23", on line between secs. 26 and 27, T.32 N., R.8 E., Rio Arriba County, New Mexico, Hydrologic Unit 13010005, on left bank 0.9 mi south of Colorado-New Mexico State line, 2.1 mi southwest of Ortiz, and 2.9 mi upstream from mouth.

DRAINAGE AREA AND PERIOD OF RECORD.--167 mi². Jan. 1, 1915 to Apr. 14, 1955, water stage recorder at location 350' upstream. Apr. 15, 1955 relocated to present site.

GAGE.--Water-stage recorder with satellite telemetry in a metal pipe shelter and well with supplemental outside chain gage. Elevation of gage is 8,040 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except for Dec. 16, 2002 through March 3, 2003 when the station was closed for the winter. Stage-discharge relation affected by ice Nov. 16-20,25-30,Dec.1-15, 2002, and Mar. 4-8, 2003. Record is good except for periods of no gage height and ice affected record which are poor. Station maintained and record developed by Div. III Hydrographic Staff.

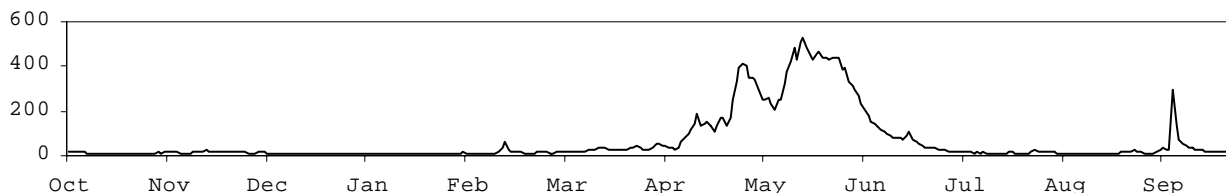
RATING TABLE.--LOSORTCO13 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	14	9	14	13	38	349	328	24	17	13
2	15	14	12	8.6	13	14	54	348	317	22	18	11
3	18	14	12	10	12	19	53	343	296	20	16	11
4	16	14	12	11	11	19	46	300	265	19	14	13
5	15	12	8	11	10	20	41	250	236	18	12	16
6	15	11	8	11	9.4	19	39	252	206	18	11	24
7	13	12	7	11	9.2	18	34	256	177	17	12	35
8	13	13	8	11	9	17	31	233	155	15	13	23
9	12	18	8	11	9.8	16	37	210	141	14	12	23
10	11	17	8	11	9.8	16	62	250	131	13	12	293
11	10	15	8	10	12	18	79	252	120	14	11	133
12	10	16	8	9.5	22	23	96	321	109	13	12	74
13	9.9	24	8	10	33	27	113	377	99	14	11	52
14	9.4	22	8.4	11	60	31	147	419	91	13	9.7	41
15	8.8	18	9	11	30	34	187	482	85	12	8.5	36
16	8.8	16	9	9	16	36	130	430	79	13	8.1	32
17	8.6	18	9	9.5	17	33	146	506	78	13	7.3	28
18	8.5	18	8	9.5	16	29	149	531	73	10	7.1	26
19	8.8	17	7	11	14	27	132	483	86	9.2	7.1	23
20	9	18	7	11	13	24	110	449	104	11	6.7	22
21	8.7	18	7.4	11	13	26	131	434	73	16	7.3	21
22	8.7	17	7	11	11	25	167	459	59	14	8.7	20
23	9.1	16	7.8	12	10	28	168	467	50	13	11	20
24	9.5	17	7.2	12	14	31	135	437	45	13	13	19
25	10	16	7.2	11	16	33	174	441	40	12	18	19
26	11	13	7	11	14	38	253	428	37	12	18	17
27	13	11	7.8	13	14	42	330	439	34	13	15	18
28	13	13	8.8	13	13	35	391	440	32	18	14	17
29	14	14	10	12	---	29	414	438	29	25	25	17
30	13	14	9	12	---	28	400	384	26	21	18	17
31	16	---	9.4	13	---	29	---	392	---	17	15	---
TOTAL	359.8	471	267	337.1	445.2	797	4287	11800	3601	476.2	388.5	1114
MEAN	11.6	16	8.6	10.9	15.9	26	143	381	120	15.4	12.5	37
AC-FT	714	934	530	669	883	1580	8500	23410	7140	945	771	2210
MAX	18	24	14	13	60	42	414	531	328	25	25	293
MIN	8.5	11	7	8.6	9	13	31	210	26	9.2	6.7	11
CAL YR 2002	TOTAL	6561.1	MEAN	18	MAX	130	MIN	1.7	AC-FT	13010		
WTR YR 2003	TOTAL	24343.8	MEAN	66.7	MAX	531	MIN	6.7	AC-FT	48290		

MAX DISCH: 655 CFS AT 23:30 ON May. 17, 2003 GH 4.56 FT. SHIFT -0.03 FT.
MAX GH: 4.56 FT. AT 23:30 ON May. 17, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



08248500 SAN ANTONIO RIVER AT MOUTH, NEAR MANASSA, CO

LOCATION.--Lat 37°10'38", long 105°52'35", in SE¼NE¼ sec. 21, T.34 N., R.10 E., Conejos County, Hydrologic Unit 13010005, on right bank 0.3 mi. downstream from bridge on State Highway 142, 2.2 mi. upstream from mouth, and 3.3 mi. east of Manassa, Co.

DRAINAGE AREA.--348 mi².

GAGE.--Graphic water-stage recorder with satellite telemetry in metal pipe shelter and well. Altitude of gage is 7,650 ft. from topographic map.

REMARKS.--Record is complete and reliable except for the periods Jan. 29, 2003 through Mar. 26, 2003 when the station was closed for the winter. There was no flow Oct. 1, 2002 - Jan. 26, 2003, Feb. 22-Apr. 11, Jul. 10- Sep. 9, and Sep. 14-30, 2003. This site only had flow at it for 119 days this year. There was no flow for 246 days. Record is good except for periods of no gage height, which are fair to poor. Station maintained and record developed by Div. III Hydrographic Staff.

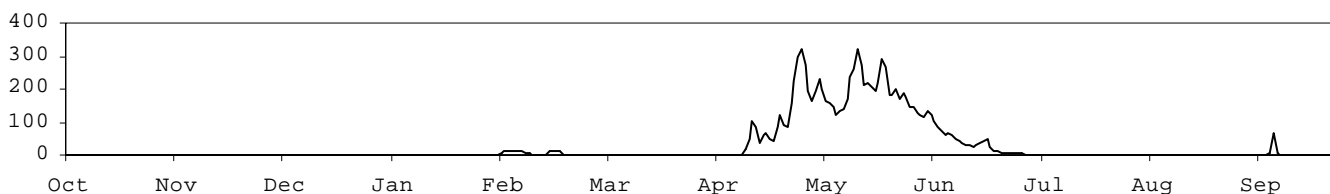
RATING TABLE.--SANMANCO18 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	.9	0	0	191	128	3.8	0	0
2	0	0	0	0	5	0	0	162	122	2.9	0	0
3	0	0	0	0	13	0	0	195	118	2.2	0	0
4	0	0	0	0	11	0	0	231	133	1.5	0	0
5	0	0	0	0	11	0	0	199	119	1.2	0	0
6	0	0	0	0	11	0	0	166	105	.76	0	0
7	0	0	0	0	10	0	0	158	86	.6	0	0
8	0	0	0	0	10	0	0	147	71	.3	0	0
9	0	0	0	0	7	0	0	122	58	.01	0	0
10	0	0	0	0	6	0	0	135	66	0	0	4.4
11	0	0	0	0	3	0	0	140	60	0	0	65
12	0	0	0	0	1	0	2.7	172	51	0	0	7.3
13	0	0	0	0	.9	0	17	236	42	0	0	.03
14	0	0	0	0	.8	0	46	258	39	0	0	0
15	0	0	0	0	1	0	101	321	32	0	0	0
16	0	0	0	0	14	0	84	273	31	0	0	0
17	0	0	0	0	14	0	39	210	22	0	0	0
18	0	0	0	0	12	0	62	219	30	0	0	0
19	0	0	0	0	11	0	65	207	35	0	0	0
20	0	0	0	0	1	0	49	195	44	0	0	0
21	0	0	0	0	.5	0	41	219	48	0	0	0
22	0	0	0	0	0	0	83	289	24	0	0	0
23	0	0	0	0	0	0	120	264	14	0	0	0
24	0	0	0	0	0	0	92	184	10	0	0	0
25	0	0	0	0	0	0	83	179	7.9	0	0	0
26	0	0	0	0	0	0	156	199	6.3	0	0	0
27	0	0	0	1.3	0	0	222	170	5.5	0	0	0
28	0	0	0	3	0	0	299	185	5.7	0	0	0
29	0	0	0	.84	---	0	321	173	5.3	0	0	0
30	0	0	0	.8	---	0	270	146	4.7	0	0	0
31	0	---	0	.72	---	0	---	145	---	0	0	---
TOTAL	0	0	0	6.66	144.1	0	2152.7	6090	1523.4	13.27	0	76.73
MEAN	0	0	0	.21	5.15	0	71.8	196	50.8	.43	0	2.56
AC-FT	0	0	0	13	286	0	4270	12080	3020	26	0	152
MAX	0	0	0	3	14	0	321	321	133	3.8	0	65
MIN	0	0	0	0	0	0	0	122	4.7	0	0	0
CAL YR 2002	TOTAL	496.13	MEAN	1.36	MAX	15	MIN	0	AC-FT	984		
WTR YR 2003	TOTAL	10006.86	MEAN	27.4	MAX	321	MIN	0	AC-FT	19850		

MAX DISCH: 415 CFS AT 10:45 ON Apr. 29, 2003 GH 4.16 FT. SHIFT -0.14 FT.
MAX GH: 4.16 FT. AT 10:45 ON Apr. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08249000 CONEJOS RIVER NEAR LASAUSES, MAIN (NORTH) CHANNEL, CO

LOCATION.--Lat 37°18'01", long 105°44'47", in SW¼SW¼ sec. 2, T. 35 N., R. 11 E., Conejos County, on left bank of main channel 125 ft downstream from bridge on State Route 158, 1.0 mi upstream from mouth, 2.1 mi north of LaSauses, and 13 mi southeast of Alamosa.

DRAINAGE AREA AND PERIOD OF RECORD.--887 mi². Water stage recorder since March 29, 1921 at five sites close to present location.

GAGE.--Water-stage recorder with satellite telemetry in timber shelter and well with outside chain gage. Datum of gage is 7,495.02 ft above mean sea level (levels by Bureau of Reclamation). At present site and datum since Oct. 1, 1937.

REMARKS.--Record is complete and reliable. Stage-discharge relation affected by ice Dec. 10-13, 19-22, 24-31, 2002, and Jan. 2-3, Feb. 7-10, 2003. There was no flow Oct. 1 - Nov. 23, 2002; April 27, July 12 - Sep. 11, and Sep. 15-30, 2003 (133 days). Record good except for periods of ice affected record which are fair. Station maintained and record developed by Div. III Hydrographic Staff.

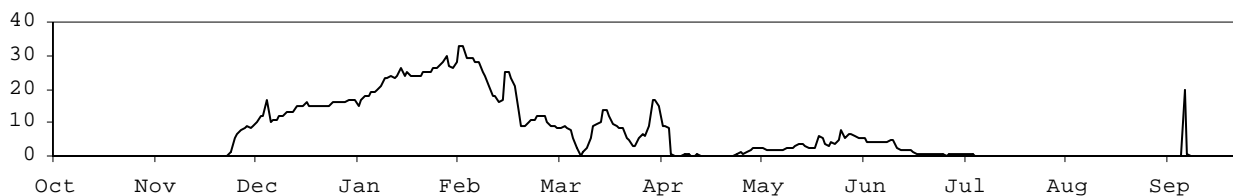
RATING TABLE.--NORLASCO14 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	9.2	17	28	10	9.2	.93	6.7	.26	0	0
2	0	0	10	15	33	9.2	17	1.9	6.7	.3	0	0
3	0	0	12	17	33	9.2	17	2.2	5.9	.3	0	0
4	0	0	12	18	29	8.3	15	2.2	5.1	.3	0	0
5	0	0	17	18	29	8.3	9.2	2.2	5.1	.3	0	0
6	0	0	10	19	29	8.9	9.2	2.1	5.1	.3	0	0
7	0	0	11	19	28	8.6	8.3	1.9	4.3	.3	0	0
8	0	0	11	20	28	7.5	.81	1.7	4.4	.3	0	0
9	0	0	12	21	25	5.5	.28	1.6	4.2	.3	0	0
10	0	0	12	23	24	2.2	.25	1.8	4.3	.24	0	0
11	0	0	13	23	21	.29	.28	1.9	4.4	.02	0	0
12	0	0	13	24	18	1.1	.3	2	4.1	0	0	20
13	0	0	13	23	18	2.2	.3	2.2	4	0	0	.69
14	0	0	15	24	16	5.6	.2	2.2	4.5	0	0	.04
15	0	0	15	26	17	8.9	.23	2.2	5	0	0	0
16	0	0	15	24	25	9.7	.78	3	2.1	0	0	0
17	0	0	16	25	25	10	.23	3.5	1.9	0	0	0
18	0	0	15	24	23	14	.05	3.5	1.7	0	0	0
19	0	0	15	24	21	14	.02	2.8	1.6	0	0	0
20	0	0	15	24	13	12	.1	2.3	1.5	0	0	0
21	0	0	15	24	9.2	9.3	.1	2.2	1.1	0	0	0
22	0	0	15	25	9.2	9.2	.12	2.4	.88	0	0	0
23	0	0	15	25	10	8.5	.1	5.8	.72	0	0	0
24	0	.95	15	25	11	8.3	.1	5.1	.69	0	0	0
25	0	5.3	16	26	11	5.4	.09	3.3	.7	0	0	0
26	0	6.7	16	26	12	4.7	.03	3.2	.73	0	0	0
27	0	7.8	16	27	12	3.2	0	4.2	.67	0	0	0
28	0	8.2	16	28	12	2.8	.63	3.7	.58	0	0	0
29	0	8.9	16	30	---	5.6	.93	4.5	.47	0	0	0
30	0	8.2	17	27	---	6.6	.62	7.8	.39	0	0	0
31	0	---	17	26	---	5.8	---	5.3	---	0	0	---
TOTAL	0	46.05	435.2	717	569.4	224.89	91.45	91.63	89.53	2.92	0	20.73
MEAN	0	1.53	14	23	20.3	7.25	3.05	2.96	2.98	.09	0	.69
AC-FT	0	91	863	1420	1130	446	181	182	178	5.8	0	41
MAX	0	8.9	17	30	33	14	17	7.8	6.7	.3	0	20
MIN	0	0	9.2	15	9.2	.29	0	.93	.39	0	0	0
CAL YR 2002	TOTAL	3786.01	MEAN	10.4	MAX	73	MIN	0	AC-FT	7510		
WTR YR 2003	TOTAL	2288.8	MEAN	6.27	MAX	33	MIN	0	AC-FT	4540		

MAX DISCH: 48 CFS AT 01:00 ON Sep. 12, 2003 GH 2.29 FT. SHIFT 0.22 FT.
MAX GH: 3.12 FT. AT 10:30 ON Dec. 26, 2002

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08249000 CONEJOS RIVER NEAR LASAUSES, SECONDARY (SOUTH) CHANNEL, CO

LOCATION.--Lat 37°18'01", long 105°44'47", in SE¼NE¼ sec. 10, T. 35 N., R. 11 E., Conejos County, on left bank of secondary channel 230 ft upstream from bridge on State Route 158, 1.0 mi upstream from mouth, 2.0 mi north of LaSausés, and 13 mi southeast of Alamosa.

DRAINAGE AREA AND PERIOD OF RECORD.--887 mi². Water stage recorder since March 29, 1921 at various sites close to present location.

GAGE.--Graphic water-stage recorder and Sutron satellite monitoring equipment in metal pipe shelter and well. Datum of gage is 7,496.89 ft above mean sea level (levels by Bureau of Reclamation). At present site and datum since Oct. 14, 1965.

REMARKS.--Record is complete and reliable except for Dec. 8-15, 2002 when the well was frozen, Dec. 16, 2002 through Feb. 3, 2003 when the station was closed for the winter, and Sep. 12-14, 2003 when the chart recorder clock stopped and the shaft encoder was not working correctly. Stage-discharge relation affected by ice Nov. 25-29, Dec. 2, 2002, and Feb. 4-5, 7-8, 14, 17, 2003. There was no flow Oct. 1 through Nov. 23, 2002, Jul. 6 through Sep. 10, and Sep. 15-30, 2003 (137 days). Record is good except for periods of no gage height and ice affected record, which should be considered fair to poor. Station maintained and record developed by Div. III Hydrographic Staff.

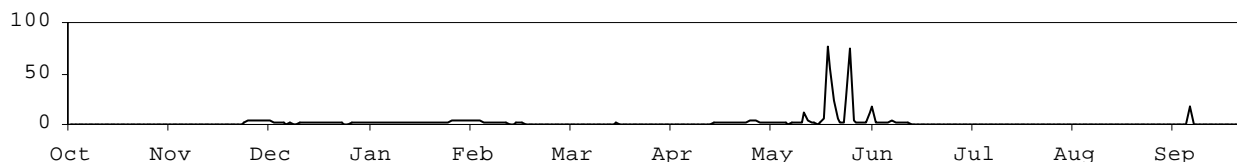
RATING TABLE.--SOULASCO07 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	4.4	1.3	3.3	.32	.27	3	2.5	.22	0	0
2	0	0	3.1	1.2	3.8	.32	.88	2.7	2.2	.17	0	0
3	0	0	2.9	1.5	3.8	.3	.7	2.2	2	.11	0	0
4	0	0	2.8	1.7	3.4	.3	.6	1.7	1.9	.07	0	0
5	0	0	2.4	1.7	3	.3	.46	1.7	12	.03	0	0
6	0	0	1.5	1.9	2.9	.28	.38	1.7	18	0	0	0
7	0	0	.96	1.9	2.3	.29	.37	1.6	2.5	0	0	0
8	0	0	1	2	2.2	.33	.35	1.3	2.4	0	0	0
9	0	0	.95	2.2	2.2	.32	.28	1.1	2.3	0	0	0
10	0	0	.95	2.5	2	.31	.27	1	2	0	0	0
11	0	0	1	2.5	1.9	.51	.25	.93	1.9	0	0	.09
12	0	0	1.1	2.6	1.5	.29	.22	.99	3	0	0	.18
13	0	0	1.1	2.5	1.1	.26	.22	1.2	2.4	0	0	.31
14	0	0	1.1	2.6	.9	.25	.19	1.6	2.1	0	0	.01
15	0	0	1.1	2.9	.62	.34	.23	2.4	1.5	0	0	0
16	0	0	1.1	2.6	1.2	.49	.3	12	1.2	0	0	0
17	0	0	1.2	2.7	1.2	.54	.98	4.5	1	0	0	0
18	0	0	1.1	2.6	1.1	.96	1.6	1.3	.84	0	0	0
19	0	0	1	2.6	.98	1.2	2.3	.99	.75	0	0	0
20	0	0	1	2.6	.69	.86	2.4	.97	.75	0	0	0
21	0	0	1	2.6	.54	.7	2.4	1.1	.7	0	0	0
22	0	0	1	2.8	.35	.54	2	6.7	.55	0	0	0
23	0	0	1	2.8	.3	.45	1.8	77	.45	0	0	0
24	0	1.8	1	2.8	.3	.4	2.2	54	.36	0	0	0
25	0	3.5	.95	2.9	.33	.35	2.4	23	.26	0	0	0
26	0	3.9	.95	2.9	.32	.31	2	5.4	.23	0	0	0
27	0	4.1	1	3.1	.32	.33	2.1	2.1	.26	0	0	0
28	0	4.6	1	3.2	.33	.26	2.9	2.1	.28	0	0	0
29	0	4.4	1.1	3.5	---	.24	3.8	26	.25	0	0	0
30	0	4.4	1.1	3.2	---	.28	3.9	74	.24	0	0	0
31	0	---	1.2	3	---	.29	---	3.7	---	0	0	---
TOTAL	0	26.7	43.06	76.9	42.88	12.92	38.75	319.98	66.82	.6	0	18.41
MEAN	0	.89	1.39	2.5	1.53	.42	1.29	10.3	2.23	.02	0	.61
AC-FT	0	53	85	153	85	26	77	635	133	1.2	0	37
MAX	0	4.6	4.4	3.5	3.8	1.2	3.9	77	18	.22	0	18
MIN	0	0	.95	1.2	.3	.24	.19	.93	.23	0	0	0
CAL YR 2002	TOTAL	499.7	MEAN	1.37	MAX	6.6	MIN	0	AC-FT	991		
WTR YR 2003	TOTAL	647.02	MEAN	1.77	MAX	77	MIN	0	AC-FT	1280		

MAX DISCH: 246 CFS AT 00:45 ON May. 30, 2003 GH 3.59 FT. SHIFT -0.34 FT.
MAX GH: 3.59 FT. AT 00:45 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08249000 CONEJOS RIVER NEAR LASAUSES, CO (COMBINED)

LOCATION.--Lat 37°18'01", long 105°44'47", in SW¼SW¼ sec. 2, and SE¼NE¼ sec. 10 (two channels), T.35 N., R.11 E., Conejos County, Hydrologic Unit 13010005, on left bank of main channel 125 ft downstream from bridge on State Highway 158 and on left bank of secondary channel 230 ft upstream from bridge on State Route 158, 1.0 mi upstream from mouth, 2.1 mi north of Lasausas, and 13 mi southeast of Alamosa.

DRAINAGE AREA AND PERIOD OF RECORD.--887 mi². Mar. 1921, water stage recorders, at several locations close to present sites.

GAGE.--Two water-stage recorders with satellite telemetry. Datum of gage on main (north) channel is 7,495.02 ft above National Geodetic Vertical Datum of 1929, and on secondary (south) channel is 7,496.89 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records should be good except for periods of no record and ice affected record, which are poor. Diversions above station for irrigation of about 75,000 acres. Practically entire flow is diverted and records represent mainly return flow. Record developed by Div. III Hydrographic Staff.

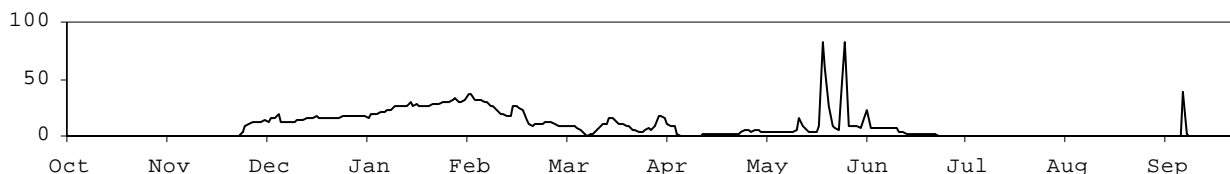
COMBINED CONEJOS RIVER (NORLASCO,SOULASCO)

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	14	18	31	10	9.5	3.9	9.2	.48	0	0
2	0	0	13	16	37	9.5	18	4.6	8.9	.47	0	0
3	0	0	15	19	37	9.5	18	4.4	7.9	.41	0	0
4	0	0	15	20	32	8.6	16	3.9	7	.37	0	0
5	0	0	19	20	32	8.6	9.7	3.9	17	.33	0	0
6	0	0	12	21	32	9.2	9.6	3.8	23	.3	0	0
7	0	0	12	21	30	8.9	8.7	3.5	6.8	.3	0	0
8	0	0	12	22	30	7.8	1.2	3	6.8	.3	0	0
9	0	0	13	23	27	5.8	.56	2.7	6.5	.3	0	0
10	0	0	13	26	26	2.5	.52	2.8	6.3	.24	0	0
11	0	0	14	26	23	.8	.53	2.8	6.3	.02	0	.09
12	0	0	14	27	20	1.4	.52	3	7.1	0	0	.38
13	0	0	14	26	19	2.5	.52	3.4	6.4	0	0	1
14	0	0	16	27	17	5.8	.39	3.8	6.6	0	0	.05
15	0	0	16	29	18	9.2	.46	4.6	6.5	0	0	0
16	0	0	16	27	26	10	1.1	15	3.3	0	0	0
17	0	0	17	28	26	11	1.2	8	2.9	0	0	0
18	0	0	16	27	24	15	1.7	4.8	2.5	0	0	0
19	0	0	16	27	22	15	2.3	3.8	2.4	0	0	0
20	0	0	16	27	14	13	2.5	3.3	2.2	0	0	0
21	0	0	16	27	9.7	10	2.5	3.3	1.8	0	0	0
22	0	0	16	28	9.5	9.7	2.1	9.1	1.4	0	0	0
23	0	0	16	28	10	8.9	1.9	83	1.2	0	0	0
24	0	2.7	16	28	11	8.7	2.3	59	1.1	0	0	0
25	0	8.8	17	29	11	5.7	2.5	26	.96	0	0	0
26	0	11	17	29	12	5	2	8.6	.96	0	0	0
27	0	12	17	30	12	3.5	2.1	6.3	.93	0	0	0
28	0	13	17	31	12	3.1	3.5	5.8	.86	0	0	0
29	0	13	17	34	---	5.8	4.7	31	.72	0	0	0
30	0	13	18	30	---	6.9	4.5	82	.63	0	0	0
31	0	---	18	29	---	6.1	---	9	---	0	0	---
TOTAL	0	73.5	478	800	610.2	237.5	131.1	412.1	156.16	3.52	0	39.14
MEAN	0	2.45	15.4	25.8	21.8	7.66	4.37	13.3	5.21	.11	0	1.30
AC-FT	0	146	948	1590	1210	471	260	817	310	7	0	78
MAX	0	13	19	34	37	15	18	83	23	.48	0	38
MIN	0	0	12	16	9.5	.8	.39	2.7	.63	0	0	0

CAL YR 2002 TOTAL 4286.56 MEAN 11.7 MAX 78 MIN 0 AC-FT 8500
WTR YR 2003 TOTAL 2941.22 MEAN 8.06 MAX 83 MIN 0 AC-FT 5830

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08250000 CULEBRA CREEK AT SAN LUIS, CO

LOCATION.--Lat 37°11'01", long 105°25'31", Costilla County, Hydrologic Unit 13010002, in Beaubien Grant, on left bank at bridge 1.0 mi. south of San Luis and 1.0 mi. upstream from Rito Seco.

DRAINAGE AREA AND PERIOD OF RECORD.--220 mi². Station established April 1, 1927 by Colo. State Engineer's Office at present site, different datum. May 1931 new flume installed and datum established at the same site.

GAGE.--Graphic water-stage recorder and concrete control. Steven's Data logger installed Mar. 25, 1994. Altitude of gage is 8,000 ft from topographic map.

REMARKS.--Record is complete and reliable for the entire water year. Record is good for the entire water year. During the winter the record may show a pattern of jagged peaks in the late morning hours. While this pattern does appear to be ice affected record, it has been verified by the hydrographic staff of Division 3 that this is caused by freezing and releasing of water above the gage, and that this is good record. Station maintained and records developed by Division III Hydrographic staff.

RATING TABLE.--CULSANCO05 USED FROM 01-OCT-2002 TO 30-SEP-2003

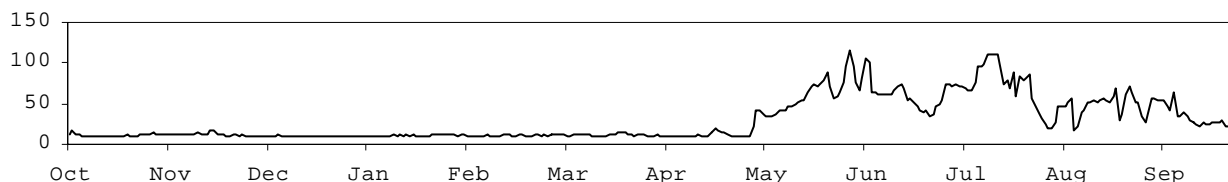
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	11	9.6	12	12	11	9.3	116	74	25	28
2	16	12	11	9.3	11	12	12	22	97	73	20	36
3	12	12	11	9.8	11	12	11	43	77	72	20	57
4	12	13	11	9.9	9.8	12	11	41	67	73	27	57
5	11	13	12	10	10	11	10	38	81	72	47	54
6	11	13	11	11	10	11	10	34	105	71	47	53
7	11	13	10	11	10	12	11	34	101	69	47	55
8	11	12	11	11	12	12	10	34	64	67	52	46
9	11	13	10	11	8.9	12	10	36	63	67	57	41
10	11	14	10	12	9.8	12	10	43	62	77	17	64
11	11	13	10	11	10	12	11	42	61	97	23	34
12	11	13	9.9	12	11	12	11	42	61	96	39	35
13	11	13	10	11	13	11	9.8	46	61	99	43	39
14	11	16	10	12	13	11	11	46	61	110	52	35
15	11	16	9.7	11	12	11	12	48	66	110	52	30
16	11	12	10	12	11	11	11	51	71	110	53	27
17	11	12	10	11	11	11	11	53	73	110	52	25
18	11	12	10	10	12	12	11	55	68	98	53	23
19	12	11	8.7	11	12	12	14	64	54	75	56	26
20	11	11	8.7	11	11	13	19	71	57	78	53	25
21	11	12	8.8	11	11	14	16	75	51	68	52	25
22	11	12	8.7	12	11	14	14	72	46	88	60	26
23	13	11	9.2	12	13	14	14	75	41	59	68	28
24	12	12	9.3	12	12	12	12	79	40	83	30	28
25	12	11	9	12	11	12	10	89	41	78	38	29
26	12	11	8.8	12	12	11	9.8	72	35	81	62	23
27	15	11	8.7	12	11	12	10	57	37	86	71	21
28	13	11	8.8	12	12	12	11	59	47	56	64	21
29	12	11	9.2	12	---	12	11	64	50	47	52	21
30	12	11	9.3	11	---	11	9.8	76	53	38	52	21
31	13	---	9.3	12	---	11	---	97	---	31	35	---
TOTAL	365	369	304.1	346.6	313.5	369	344.4	1667.3	1907	2413	1419	1033
MEAN	12	12	9.8	11.2	11.2	12	11.5	53.8	64	78	46	34
AC-FT	724	732	603	687	622	732	683	3310	3780	4790	2810	2050
MAX	16	16	12	12	13	14	19	97	116	110	71	64
MIN	11	11	8.7	9.3	8.9	11	9.8	9.3	35	31	17	21

CAL YR	2002	TOTAL	12978.1	MEAN	35.6	MAX	138	MIN	8.7	AC-FT	25740
WTR YR	2003	TOTAL	10850.9	MEAN	29.7	MAX	116	MIN	8.7	AC-FT	21520

MAX DISCH: 244 CFS AT 21:45 ON Jul. 22, 2003 GH 2.47 FT. SHIFT 0.09 FT.
MAX GH: 2.47 FT. AT 21:45 ON Jul. 22, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



RIO GRANDE BASIN

08251500 RIO GRANDE NEAR LOBATOS, CO

LOCATION.--Lat 37°04'43", long 105°45'23", in NE¼NW¼ sec. 27, T.33 N., R.11 E., Conejos County, Hydrologic Unit 13010002, on right bank at highway bridge, 5.7 mi north of Colorado-New Mexico State line, 8 mi downstream from Culebra Creek, 11 mi east of Lobatos, and 14 mi east of Antonito.

DRAINAGE AREA AND PERIOD OF RECORD.--7,700 mi². approximately, includes 2,940 mi². in closed basin in northern part of San Luis Valley, Colo. June 28, 1899--Nov. 7, 1910, non-recording gage; Nov. 8, 1910, water stage recorder, at present site and datum.

GAGE.--Graphic water-stage recorder in a four foot square timber shelter and cobblestone well. Station contains a Stevens chart recorder, Sutron satellite monitoring equipment, and a water temperature sensor. Auxiliary outside slope gage. Datum of gage is 7,427.63 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable. Stage-discharge relation affected by ice November 26, 2002 through February 15, 2003, and February 22-26, 2003. Record is good except for periods of ice affected record which are fair to poor. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--RIOLOBCO03 USED FROM 01-OCT-2002 TO 30-SEP-2003

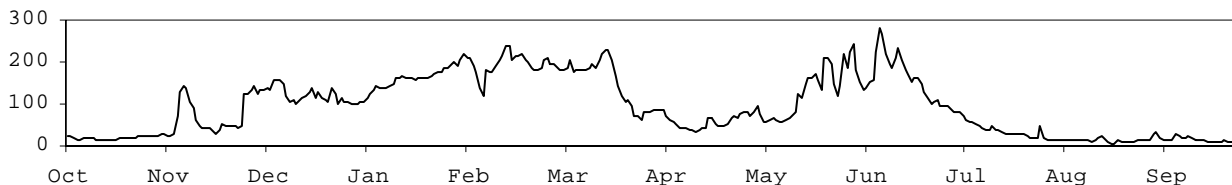
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	23	135	105	220	195	85	71	224	93	14	13
2	24	24	140	115	210	187	85	79	244	90	12	12
3	20	30	135	125	210	181	86	93	182	79	12	29
4	15	71	155	135	190	181	85	76	151	80	16	31
5	13	130	155	145	175	185	71	56	135	82	15	20
6	18	142	155	140	140	206	64	58	139	72	15	16
7	19	137	150	140	120	177	58	60	151	64	14	14
8	19	103	120	140	180	183	52	66	157	58	15	14
9	19	91	105	145	175	182	44	60	223	57	15	16
10	14	62	110	150	175	183	44	59	279	53	15	28
11	15	47	100	160	190	183	44	58	265	47	15	22
12	15	41	110	160	205	185	39	61	218	42	15	21
13	15	42	115	165	215	193	36	67	196	37	15	21
14	16	42	120	160	240	187	35	73	184	38	14	25
15	16	37	130	160	240	205	36	83	209	47	10	19
16	16	30	140	160	205	218	41	122	232	40	14	16
17	17	38	115	155	213	227	42	112	206	36	17	15
18	18	53	130	160	213	230	66	146	181	33	25	13
19	18	49	115	160	218	205	65	160	173	30	15	12
20	18	48	110	160	207	165	51	164	154	28	8.4	11
21	20	47	105	160	201	142	47	172	160	27	6.4	10
22	21	48	140	165	185	117	46	158	160	28	5.8	10
23	23	43	125	170	180	107	48	134	146	27	15	9.8
24	25	48	100	175	180	109	52	210	128	27	9.3	11
25	24	122	115	175	185	96	65	210	113	27	7.9	12
26	23	125	105	185	204	70	71	195	102	24	7.7	10
27	26	135	105	185	209	71	69	146	103	21	8.4	10
28	26	145	100	195	195	60	78	121	108	20	11	11
29	26	125	100	200	---	80	83	143	97	20	14	11
30	28	135	100	190	---	80	81	218	94	46	14	11
31	27	---	105	205	---	80	---	186	---	21	14	---
TOTAL	617	2213	3745	4945	5480	4870	1769	3617	5114	1394	404.9	473.8
MEAN	20	74	121	160	196	157	59	117	170	45	13.1	15.8
AC-FT	1220	4390	7430	9810	10870	9660	3510	7170	10140	2760	803	940
MAX	28	145	155	205	240	230	86	218	279	93	25	31
MIN	13	23	100	105	120	60	35	56	94	20	5.8	9.8

CAL YR 2002 TOTAL 35800.9 MEAN 98.1 MAX 391 MIN 4.3 AC-FT 71010
WTR YR 2003 TOTAL 34642.7 MEAN 94.9 MAX 279 MIN 5.8 AC-FT 68710

MAX DISCH: 302 CFS AT 21:30 ON Jun. 10, 2003 GH 1.56 FT. SHIFT 0.02 FT.
MAX GH: 2.19 FT. AT 06:30 ON Feb. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

RIO GRANDE BASIN

09118200 TARBELL DITCH NEAR COCHETOPA PASS, CO

LOCATION.--Tarbell ditch diverts water from Lake Fork Cochetopa Creek (tributary to Cochetopa Creek), in NW¼ sec. 18, T.43 N., R.2 E., in Gunnison River basin, to Lake Fork Creek (tributary to Middle Fork Saguache Creek) in NE¼ sec. 18, T.43 N., R.2 E., in Rio Grande basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder with satellite monitoring system at a 2.5' Parshall Flume.

REMARKS.--Record is complete and reliable. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--TARBELCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

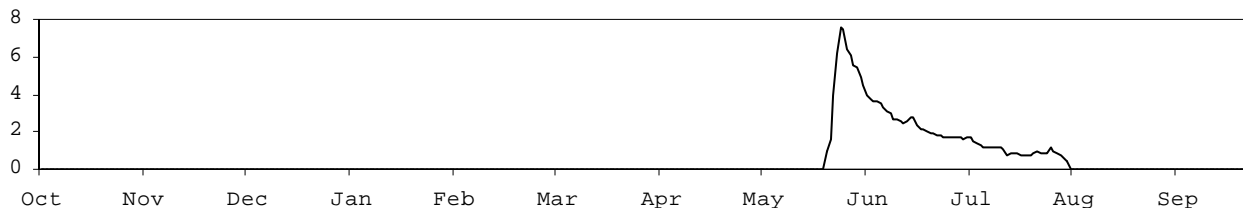
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	6.1	1.7	.91	0
2	0	0	0	0	0	0	0	0	5.6	1.7	.85	0
3	0	0	0	0	0	0	0	0	5.4	1.7	.7	0
4	0	0	0	0	0	0	0	0	4.9	1.7	.62	0
5	0	0	0	0	0	0	0	0	4.5	1.6	.46	0
6	0	0	0	0	0	0	0	0	4	1.7	0	0
7	0	0	0	0	0	0	0	0	3.7	1.7	0	0
8	0	0	0	0	0	0	0	0	3.6	1.5	0	0
9	0	0	0	0	0	0	0	0	3.6	1.4	0	0
10	0	0	0	0	0	0	0	0	3.5	1.3	0	0
11	0	0	0	0	0	0	0	0	3.3	1.2	0	0
12	0	0	0	0	0	0	0	0	3.1	1.2	0	0
13	0	0	0	0	0	0	0	0	3	1.2	0	0
14	0	0	0	0	0	0	0	0	2.7	1.2	0	0
15	0	0	0	0	0	0	0	0	2.7	1.2	0	0
16	0	0	0	0	0	0	0	0	2.6	1.2	0	0
17	0	0	0	0	0	0	0	0	2.5	1.1	0	0
18	0	0	0	0	0	0	0	0	2.6	.77	0	0
19	0	0	0	0	0	0	0	0	2.8	.86	0	0
20	0	0	0	0	0	0	0	0	2.8	.87	0	0
21	0	0	0	0	0	0	0	0	2.3	.88	0	0
22	0	0	0	0	0	0	0	0	2.1	.72	0	0
23	0	0	0	0	0	0	0	0	2.1	.74	0	0
24	0	0	0	0	0	0	0	0	2	.72	0	0
25	0	0	0	0	0	0	0	.92	1.9	.8	0	0
26	0	0	0	0	0	0	0	1.6	1.9	.83	0	0
27	0	0	0	0	0	0	0	4	1.8	.92	0	0
28	0	0	0	0	0	0	0	6.2	1.8	.86	0	0
29	0	0	0	0	---	0	0	7.6	1.7	.9	0	0
30	0	0	0	0	---	0	0	7.5	1.7	.86	0	0
31	0	---	0	0	---	0	---	6.4	---	1.2	0	---
TOTAL	0	0	0	0	0	0	0	34.22	92.3	36.23	3.54	0
MEAN	0	0	0	0	0	0	0	1.1	3.1	1.17	.11	0
AC-FT	0	0	0	0	0	0	0	68	183	72	7	0
MAX	0	0	0	0	0	0	0	7.6	6.1	1.7	.91	0
MIN	0	0	0	0	0	0	0	0	1.7	.72	0	0

CAL YR	2002	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC-FT	0
WTR YR	2003	TOTAL	166.29	MEAN	.46	MAX	7.6	MIN	0	AC-FT	330

MAX DISCH: 12.4 CFS AT 22:00 ON May. 29, 2003 GH 1.12 FT. SHIFT 0.03 FT.
MAX GH: 1.12 FT. AT 22:00 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

RIO GRANDE BASIN

09121000 TABOR DITCH AT SPRING CREEK PASS, CO

LOCATION.--Lat 37°56'30", long 107°09'00"; Tabor ditch diverts water from tributaries of Cebolla Creek in secs, 29 and 36, T.43 N., R.3 W., in Gunnison River basin, to Big Spring Creek (tributary to North Clear Creek) in sec. 35, T.43 N., R.3 W., in Rio Grande basin.

DRAINAGE AREA.--N/A

GAGE.--Steven's Data Logger and satellite monitoring system at 3 ft Parshall flume.

REMARKS.--Record is complete and reliable. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--TABDITCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

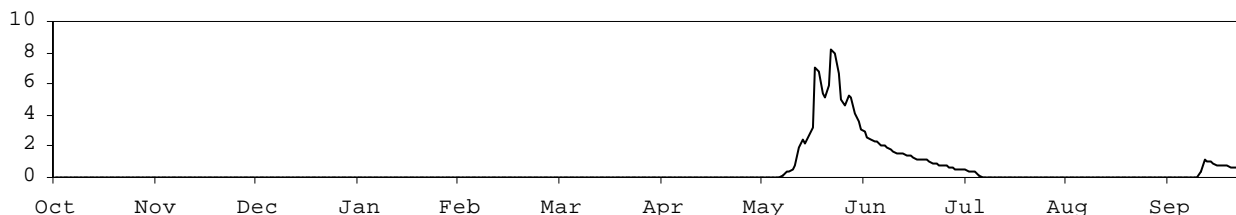
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	5.2	.72	0	0
2	0	0	0	0	0	0	0	0	5.1	.65	0	0
3	0	0	0	0	0	0	0	0	4.1	.61	0	0
4	0	0	0	0	0	0	0	0	3.6	.56	0	0
5	0	0	0	0	0	0	0	0	3.1	.55	0	0
6	0	0	0	0	0	0	0	0	2.9	.53	0	0
7	0	0	0	0	0	0	0	0	2.6	.53	0	0
8	0	0	0	0	0	0	0	0	2.4	.44	0	0
9	0	0	0	0	0	0	0	0	2.3	.36	0	0
10	0	0	0	0	0	0	0	0	2.3	.33	0	0
11	0	0	0	0	0	0	0	0	2.1	.17	0	0
12	0	0	0	0	0	0	0	.17	2	0	0	0
13	0	0	0	0	0	0	0	.42	1.9	0	0	0
14	0	0	0	0	0	0	0	.41	1.8	0	0	0
15	0	0	0	0	0	0	0	.45	1.7	0	0	0
16	0	0	0	0	0	0	0	.71	1.6	0	0	0
17	0	0	0	0	0	0	0	1.9	1.6	0	0	.36
18	0	0	0	0	0	0	0	2.4	1.5	0	0	1.1
19	0	0	0	0	0	0	0	2.2	1.4	0	0	1
20	0	0	0	0	0	0	0	2.7	1.4	0	0	1
21	0	0	0	0	0	0	0	3.2	1.3	0	0	.96
22	0	0	0	0	0	0	0	7.1	1.2	0	0	.83
23	0	0	0	0	0	0	0	6.8	1.1	0	0	.81
24	0	0	0	0	0	0	0	5.4	1.1	0	0	.74
25	0	0	0	0	0	0	0	5.1	1.1	0	0	.72
26	0	0	0	0	0	0	0	5.9	.99	0	0	.67
27	0	0	0	0	0	0	0	8.2	.91	0	0	.63
28	0	0	0	0	0	0	0	7.9	.84	0	0	.6
29	0	0	0	0	---	0	0	6.7	.78	0	0	.56
30	0	0	0	0	---	0	0	5	.73	0	0	.55
31	0	---	0	0	---	0	---	4.6	---	0	0	---
TOTAL	0	0	0	0	0	0	0	77.26	60.65	5.45	0	10.53
MEAN	0	0	0	0	0	0	0	2.49	2.02	.18	0	.35
AC-FT	0	0	0	0	0	0	0	153	120	11	0	21
MAX	0	0	0	0	0	0	0	8.2	5.2	.72	0	1.1
MIN	0	0	0	0	0	0	0	0	.73	0	0	0

CAL YR	2002	TOTAL	37.07	MEAN	0.10	MAX	0.54	MIN	0	AC-FT	74
WTR YR	2003	TOTAL	153.89	MEAN	0.42	MAX	8.2	MIN	0	AC-FT	305

MAX DISCH: 12.6 CFS AT 19:00 ON May. 27, 2003 GH 0.98 FT. SHIFT 0.05 FT.
MAX GH: 0.98 FT. AT 19:00 ON May. 27, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

RIO GRANDE BASIN

09341000 TREASURE PASS DITCH AT WOLF CREEK PASS, CO

LOCATION.--Treasure Pass diversion ditch diverts water from tributaries of Wolf Creek in San Juan River basin, to tributary of South Fork Rio Grande in sec. 5, T.37 N., R.2 E., in Rio Grande basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder at a 2' Parshall Flume.

REMARKS.--Record is complete and reliable. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--TREDITCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

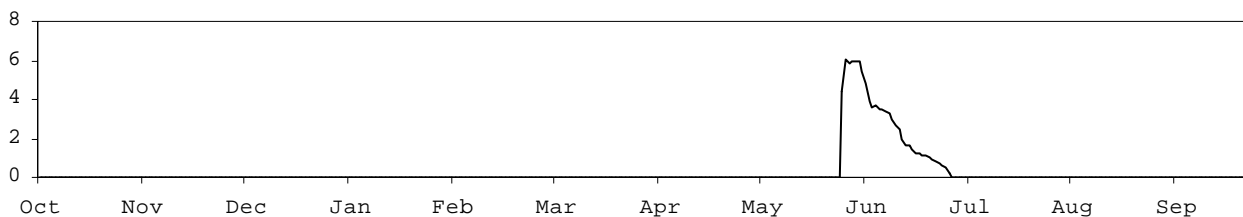
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	5.8	.16	0	0
2	0	0	0	0	0	0	0	0	5.9	0	0	0
3	0	0	0	0	0	0	0	0	6	0	0	0
4	0	0	0	0	0	0	0	0	5.9	0	0	0
5	0	0	0	0	0	0	0	0	5.4	0	0	0
6	0	0	0	0	0	0	0	0	4.8	0	0	0
7	0	0	0	0	0	0	0	0	3.9	0	0	0
8	0	0	0	0	0	0	0	0	3.6	0	0	0
9	0	0	0	0	0	0	0	0	3.7	0	0	0
10	0	0	0	0	0	0	0	0	3.5	0	0	0
11	0	0	0	0	0	0	0	0	3.5	0	0	0
12	0	0	0	0	0	0	0	0	3.4	0	0	0
13	0	0	0	0	0	0	0	0	3.3	0	0	0
14	0	0	0	0	0	0	0	0	3	0	0	0
15	0	0	0	0	0	0	0	0	2.7	0	0	0
16	0	0	0	0	0	0	0	0	2.5	0	0	0
17	0	0	0	0	0	0	0	0	1.9	0	0	0
18	0	0	0	0	0	0	0	0	1.6	0	0	0
19	0	0	0	0	0	0	0	0	1.6	0	0	0
20	0	0	0	0	0	0	0	0	1.4	0	0	0
21	0	0	0	0	0	0	0	0	1.2	0	0	0
22	0	0	0	0	0	0	0	0	1.2	0	0	0
23	0	0	0	0	0	0	0	0	1.1	0	0	0
24	0	0	0	0	0	0	0	0	1.1	0	0	0
25	0	0	0	0	0	0	0	0	.99	0	0	0
26	0	0	0	0	0	0	0	0	.88	0	0	0
27	0	0	0	0	0	0	0	0	.82	0	0	0
28	0	0	0	0	0	0	0	0	.71	0	0	0
29	0	0	0	0	---	0	0	0	.61	0	0	0
30	0	0	0	0	---	0	0	4.4	.51	0	0	0
31	0	---	0	0	---	0	---	6.1	---	0	0	---
TOTAL	0	0	0	0	0	0	0	10.5	82.52	.16	0	0
MEAN	0	0	0	0	0	0	0	.34	2.75	.01	0	0
AC-FT	0	0	0	0	0	0	0	21	164	.3	0	0
MAX	0	0	0	0	0	0	0	6.1	6	.16	0	0
MIN	0	0	0	0	0	0	0	0	.51	0	0	0

CAL YR	2002	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC-FT	0
WTR YR	2003	TOTAL	93.18	MEAN	.26	MAX	6.1	MIN	0	AC-FT	185

MAX DISCH: 7.00 CFS AT 13:50 ON May. 31, 2003 GH 0.81 FT. SHIFT 0.11 FT.
MAX GH: 0.81 FT. AT 13:50 ON May. 31, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

RIO GRANDE BASIN

09347000 DON LA FONT DITCH NO.1 AT PIEDRA PASS, CO

LOCATION.--SW¼ sec. 33, T.39 N., R.1 W., at Piedra Pass, Co. Diversion is from tributaries of Piedra River Basin to Red Mountain Creek in Rio Grande River Basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder at 9 in. Parshall flume.

REMARKS.--No water flowed by station during water year. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

CAL YR 2002 TOTAL 0 MEAN 0 MAX 0 MIN 0 AC-FT 0
WTR YR 2003 TOTAL 0 MEAN 0 MAX 0 MIN 0 AC-FT 0

MAX DISCH: 0 CFS AT 00:00 ON -- GH - FT. SHIFT - FT.
MAX GH: 0 FT. AT 00:00 ON --

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

TRANSMOUNTAIN DIVERSION TO

RIO GRANDE BASIN

09347000 DON LA FONT DITCH N0.2 AT PIEDRA PASS, CO

LOCATION.--SW¼ sec. 33, T.39 N., R.1 W., at Piedra Pass, Co. Diversion is from tributaries of Piedra River in San Juan River Basin to Red Mountain Creek in Rio Grande River Basin.

DRAINAGE AREA.--N/A

GAGE.--Stevens Data logger and satellite monitoring system at 1.5 ft Parshall flume.

REMARKS.--No water flowed by station during water year. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

CAL YR 2002 TOTAL 0 MEAN 0 MAX 0 MIN 0 AC-FT 0
WTR YR 2003 TOTAL 0 MEAN 0 MAX 0 MIN 0 AC-FT 0

MAX DISCH: 0 CFS AT 00:00 ON -- GH -- FT. SHIFT - FT.
MAX GH: 0 FT. AT 00:00 ON --

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

TRANSMOUNTAIN DIVERSION TO

RIO GRANDE BASIN

09347000 DON LA FONT DITCH, COMBINED, AT PIEDRA PASS, CO

LOCATION.--Don La Font ditches 1 and 2 divert water from tributaries of Piedra River between headgates in NW¼ sec. 4, T.38 N., R.1 W., and SW¼ sec. 33, T.39 N., R.1 W., and Piedra pass, in San Juan River basin, to Red Mountain Creek in sec. 33, T.39 N., R.1 W., in Rio Grande basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorders.

REMARKS.--Records combined to obtain this record. No water flowed by station during water year.

DON LA FONT DITCH, COMBINED, AT PIEDRA PASS

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

CAL YR 2002 TOTAL 0 MEAN 0 MAX 0 MIN 0 AC-FT 0
WTR YR 2003 TOTAL 0 MEAN 0 MAX 0 MIN 0 AC-FT 0

MAX DISCH: 0 CFS AT 00:00 ON -- GH -- FT. SHIFT - FT.
MAX GH: 0 FT. AT 00:00 ON --

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

TRANSMOUNTAIN DIVERSION TO

RIO GRANDE BASIN

09348000 WILLIAM'S CREEK-SQUAW PASS DITCH AT SQUAW PASS, CO

LOCATION.--William's Creek-Squaw Pass ditch diverts water from William's Creek (tributary to Piedra River) in sec. 21, T.39 N., R.3 W., in San Juan River basin, to Squaw Creek in sec. 21, T.39 N., R.3 W., in Rio Grande basin.

DRAINAGE AREA.--N/A

GAGE.--Satellite monitored DCP at a 2' Parshall Flume.

REMARKS.--Record is complete and reliable. Station maintained and record developed by Div. III Hydrographic Staff.

RATING TABLE.--WCSBITCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

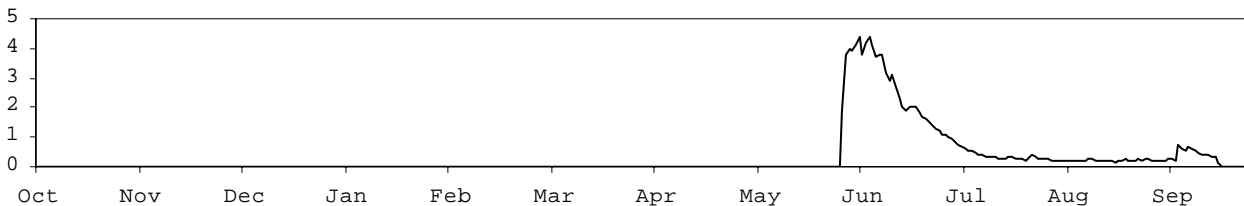
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	3.8	1.1	.24	.21
2	0	0	0	0	0	0	0	0	4	1	.23	.2
3	0	0	0	0	0	0	0	0	3.9	.92	.23	.23
4	0	0	0	0	0	0	0	0	4.1	.84	.21	.22
5	0	0	0	0	0	0	0	0	4.4	.73	.2	.23
6	0	0	0	0	0	0	0	0	3.8	.67	.19	.27
7	0	0	0	0	0	0	0	0	4.2	.62	.19	.24
8	0	0	0	0	0	0	0	0	4.4	.57	.21	.21
9	0	0	0	0	0	0	0	0	4.1	.51	.18	.77
10	0	0	0	0	0	0	0	0	3.7	.46	.23	.59
11	0	0	0	0	0	0	0	0	3.8	.41	.18	.52
12	0	0	0	0	0	0	0	0	3.8	.38	.18	.66
13	0	0	0	0	0	0	0	0	3.2	.36	.29	.59
14	0	0	0	0	0	0	0	0	2.9	.34	.24	.52
15	0	0	0	0	0	0	0	0	3.1	.33	.18	.48
16	0	0	0	0	0	0	0	0	2.7	.31	.19	.43
17	0	0	0	0	0	0	0	0	2.3	.28	.19	.39
18	0	0	0	0	0	0	0	0	2	.25	.22	.38
19	0	0	0	0	0	0	0	0	1.9	.28	.21	.36
20	0	0	0	0	0	0	0	0	2	.31	.18	.34
21	0	0	0	0	0	0	0	0	2	.31	.16	.11
22	0	0	0	0	0	0	0	0	2	.27	.19	0
23	0	0	0	0	0	0	0	0	1.8	.26	.17	0
24	0	0	0	0	0	0	0	0	1.7	.24	.24	0
25	0	0	0	0	0	0	0	0	1.6	.23	.23	0
26	0	0	0	0	0	0	0	0	1.5	.27	.19	0
27	0	0	0	0	0	0	0	0	1.4	.4	.21	0
28	0	0	0	0	0	0	0	0	1.3	.31	.26	0
29	0	0	0	0	---	0	0	0	1.2	.28	.23	0
30	0	0	0	0	---	0	0	0	1.1	.25	.3	0
31	0	---	0	0	---	0	---	1.9	---	.26	.24	---
TOTAL	0	0	0	0	0	0	0	1.9	83.7	13.75	6.59	7.95
MEAN	0	0	0	0	0	0	0	.06	2.8	.44	.21	.26
AC-FT	0	0	0	0	0	0	0	3.8	166	27	13	16
MAX	0	0	0	0	0	0	0	1.9	4.4	1.1	.3	.77
MIN	0	0	0	0	0	0	0	0	1.1	.23	.16	0

CAL YR	2002	TOTAL	45.95	MEAN	.13	MAX	1.7	MIN	0	AC-FT	91
WTR YR	2003	TOTAL	113.89	MEAN	.31	MAX	4.4	MIN	0	AC-FT	226

MAX DISCH: 9.54 CFS AT 15:00 ON Jun. 2, 2003 GH 1.08 FT. SHIFT 0.04 FT.
MAX GH: 1.08 FT. AT 15:00 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

RIO GRANDE BASIN

09351500 PINE RIVER WEMINUCHE PASS DITCH AT WEMINUCHE PASS, CO

LOCATION.--Pine River-Weminuche Pass ditch diverts water from right bank of north fork of Los Pinos River in sec. 4, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec. 33, T.40 N., R.4 W., in Rio Grande basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder and Sutron Satellite System at 3 ft Parshall flume.

REMARKS.--Record is complete and reliable. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--PRWDITCO04 USED FROM 01-OCT-2002 TO 30 SEP-2003

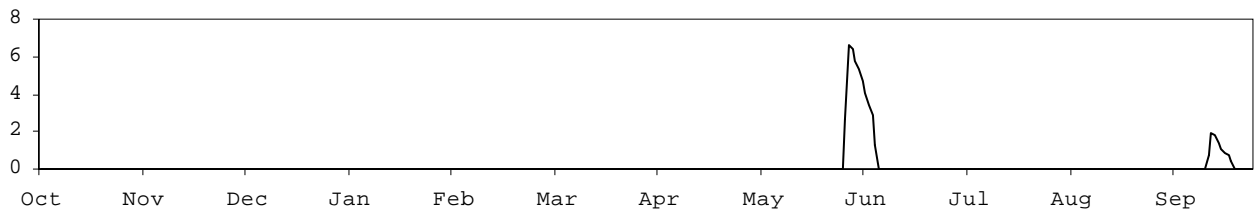
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	6.6	0	0	0
2	0	0	0	0	0	0	0	0	6.4	0	0	0
3	0	0	0	0	0	0	0	0	5.8	0	0	0
4	0	0	0	0	0	0	0	0	5.3	0	0	0
5	0	0	0	0	0	0	0	0	4.7	0	0	0
6	0	0	0	0	0	0	0	0	4.1	0	0	0
7	0	0	0	0	0	0	0	0	3.4	0	0	0
8	0	0	0	0	0	0	0	0	2.9	0	0	0
9	0	0	0	0	0	0	0	0	1.3	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	.7
18	0	0	0	0	0	0	0	0	0	0	0	1.9
19	0	0	0	0	0	0	0	0	0	0	0	1.8
20	0	0	0	0	0	0	0	0	0	0	0	1.4
21	0	0	0	0	0	0	0	0	0	0	0	1.1
22	0	0	0	0	0	0	0	0	0	0	0	.89
23	0	0	0	0	0	0	0	0	0	0	0	.74
24	0	0	0	0	0	0	0	0	0	0	0	.42
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	2.7	---	0	0	---
TOTAL	0	0	0	0	0	0	0	2.7	40.5	0	0	8.95
MEAN	0	0	0	0	0	0	0	.09	1.35	0	0	.3
AC-FT	0	0	0	0	0	0	0	5.4	80	0	0	18
MAX	0	0	0	0	0	0	0	2.7	6.6	0	0	1.9
MIN	0	0	0	0	0	0	0	0	0	0	0	0

CAL YR	2002	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC-FT	0
WTR YR	2003	TOTAL	52.15	MEAN	.14	MAX	6.6	MIN	0	AC-FT	103

MAX DISCH: 6.86 CFS AT 04:15 ON Jun. 1, 2003 GH 0.73 FT. SHIFT -0.03 FT.
MAX GH: 0.73 FT. AT 04:15 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



TRANSMOUNTAIN DIVERSION TO

RIO GRANDE BASIN

09351500 WEMINUCHE PASS DITCH AT WEMINUCHE PASS, CO

LOCATION.--Weminuche Pass ditch diverts water from left bank of Rincon la Vaca Creek (tributary to Los Pinos River) in sec. 5, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec. 33, T.40 N., R.4 W., in Rio Grande basin.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder at a 5' Parshall Flume.

REMARKS.--Record is complete and reliable. Station maintained and record developed by the Division III Hydrographic Staff.

RATING TABLE.--WEMDITCO05 USED FROM 01-OCT-2002 TO 30-SEP-2003

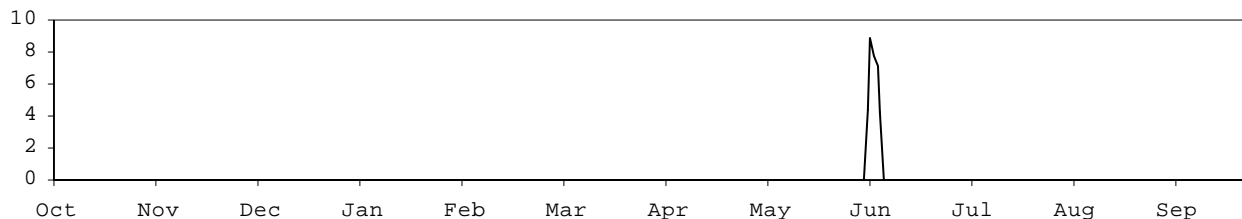
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	4.4	0	0	0
6	0	0	0	0	0	0	0	0	8.9	0	0	0
7	0	0	0	0	0	0	0	0	7.7	0	0	0
8	0	0	0	0	0	0	0	0	7.1	0	0	0
9	0	0	0	0	0	0	0	0	4.2	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	0	0	0	0	0	32.3	0	0	0
MEAN	0	0	0	0	0	0	0	0	1.08	0	0	0
AC-FT	0	0	0	0	0	0	0	0	64	0	0	0
MAX	0	0	0	0	0	0	0	0	8.9	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

CAL YR	2002	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC-FT	0
WTR YR	2003	TOTAL	32.3	MEAN	.088	MAX	8.9	MIN	0	AC-FT	64

MAX DISCH: 9.85 CFS AT 19:30 ON Jun. 5, 2003 GH 0.65 FT. SHIFT -0.01 FT.
MAX GH: 0.65 FT. AT 19:30 ON Jun. 5, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



GUNNISON RIVER BASIN

09131490 MUDDY CREEK ABOVE PAONIA RESERVOIR

LOCATION.--Lat 38°59'15", long 107°20'53", in the NE¼SE¼NW¼ sec 28, T.12 S., R.89 W. in Gunnison County on the right bank 700 ft. downstream from county bridge and 1400 ft. upstream from high water line of Paonia Reservoir.

GAGE.--Satellite (Sutron 8200 DCP) and Strip Chart Recorder (Stevens A35) in a culvert type shelter. The recorder and shaft encoder operate from floats and are set to an inside drop tape. A Sutron Accububble has operated since Nov 4, 2002 with a new gravel pack installed at the bank. A common float is used with an oil cylinder during the winter.

REMARKS.--Record is complete, good and reliable except for the periods when the stage-discharge relationship was affected by ice, which are rated poor. There were two ice periods separated by free flowing water. These ice periods were from Nov 27,2002 through Jan 30,2003 and from Feb 6, 2003 to Feb 17, 2003. These periods were estimated comparing the strip chart, and using measurements 293 - 295 during the ice period and correlating the content of Paonia Reservoir and the outflow. This period of record is considered poor. The temperature data was used for the lowest temperature days, and was obtained from the DCP. Record developed by Gerald M. Thrush.

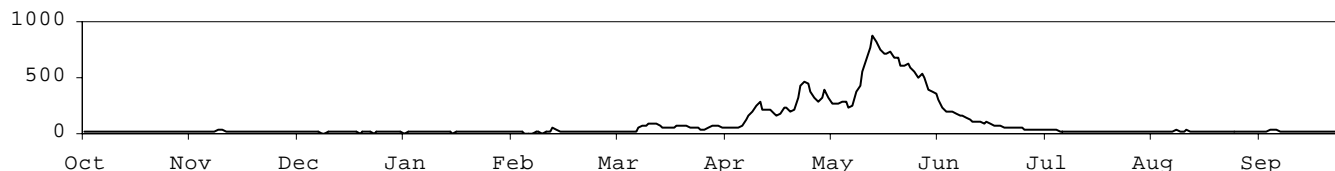
RATING TABLE.--MUDAPRC07 USED FROM 01-OCT-2002 TO 21-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	19	20	14	10	12	65	318	535	44	22	15
2	14	22	12	8	9.4	12	72	277	498	42	21	14
3	18	18	10	12	9.6	14	69	313	392	40	21	13
4	19	14	14	12	11	11	57	401	370	38	23	13
5	17	14	12	12	13	16	53	324	357	37	19	14
6	16	13	12	12	8	14	53	267	298	36	18	19
7	15	13	12	12	6	11	49	261	237	35	17	22
8	15	16	12	10	8	16	46	273	203	32	17	20
9	14	30	8	12	10	21	55	287	190	28	17	21
10	13	27	8	14	10	25	80	284	190	27	15	40
11	12	21	10	15	8	46	123	239	185	24	17	40
12	12	15	10	12	10	67	167	255	163	24	15	31
13	11	20	12	12	20	76	191	375	152	24	24	25
14	11	20	10	12	50	89	257	427	134	23	31	23
15	11	17	12	12	40	95	286	562	122	23	17	23
16	11	14	10	8	25	83	206	660	114	22	20	22
17	11	19	12	12	22	70	210	762	103	23	29	20
18	11	16	10	10	12	56	209	876	99	22	25	20
19	10	16	15	14	12	52	173	830	98	22	25	19
20	10	18	8	10	14	54	157	744	102	22	21	19
21	10	17	10	12	13	60	172	715	89	24	18	18
22	11	17	10	12	13	65	226	723	79	24	17	19
23	16	18	10	10	13	77	238	731	68	23	16	18
24	18	19	8	12	20	78	191	676	63	24	21	17
25	17	16	10	10	15	65	206	670	59	24	17	16
26	14	13	12	12	13	60	319	602	57	23	15	15
27	18	10	10	14	10	56	422	600	52	22	16	15
28	17	14	10	14	9.7	46	462	620	49	23	17	15
29	18	16	10	10	---	42	446	586	49	22	15	15
30	17	12	12	12	---	43	369	552	48	22	15	14
31	19	---	10	11	---	48	---	505	---	21	17	---
TOTAL	441	514	341	364	414.7	1480	5629	15715	5155	840	598	595
MEAN	14	17	11	11.7	14.8	48	188	507	172	27	19	20
AC-FT	875	1020	676	722	823	2940	11170	31170	10220	1670	1190	1180
MAX	19	30	20	15	50	95	462	876	535	44	31	40
MIN	10	10	8	8	6	11	46	239	48	21	15	13
CAL YR 2002	TOTAL	11992.2	MEAN	32.9	MAX	254	MIN	2.2	AC-FT	23790		
WTR YR 2003	TOTAL	32086.7	MEAN	87.9	MAX	876	MIN	6	AC-FT	63640		

MAX DISCH: 1090 CFS AT 22:00 ON May. 18, 2003 GH 7.93 FT. SHIFT 0.2 FT.
MAX GH: 7.93 FT. AT 22:00 ON May. 18, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



GUNNISON RIVER BASIN

09131500 MUDDY CREEK BELOW PAONIA RESERVOIR

LOCATION.--Lat 38°56'26", long 107°21'24" in the SE¼NW¼ sec. 8, T.13 S., R. 89 W. (in Gunnison County on the right hand bank), and about 100 feet above county bridge and about 1100 feet below Paonia Reservoir outlet.

GAGE.--Satellite (Sutron 8200 DCP) and Strip Chart Recorder (Stevens A 35) in a culvert type shelter. The recorder and shaft encoder are on separate floats and set to an inside drop tape. The DCP is in an outside NEMA box. The DCP electronic data log is the primary record. Bank operated cableway installed April 1996.

REMARKS.--The primary record is the electronic data from the Sutron 8200. This record complete, good and reliable, except five periods when the inlet froze and for flows seen above 600 cfs. The frozen inlet periods were Nov.28 through Dec. 16, Dec. 28, 2002 through Jan. 10, 2003, Jan. 19 through Jan. 23, Feb. 7 through Feb. 14, and Feb. 24 through Feb. 26. These days were estimated using the values seen going in and coming out. These periods are rated fair. The mean daily discharges above 600 cfs were May 20 through May 26, 28 and 29, 2003 and are rated fair. Record developed and station maintained by Stephen W. Tuck and Gerald M. Thrush.

RATING TABLE.--MUDBPRCO07 USED FROM 01-OCT-2002 TO 30-SEP-2003

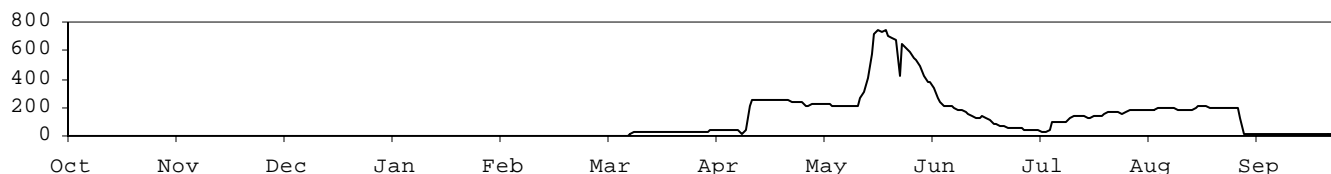
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3	2.5	3	3.2	2.5	2.5	26	217	536	52	179	192
2	2.9	2.5	2.9	3.3	2.5	2.5	26	218	496	47	182	130
3	3.1	2.5	2.9	3.4	2.5	2.5	37	218	415	43	182	21
4	3.1	2.5	2.9	3.4	2.5	2.5	48	218	382	38	182	18
5	3.1	2.5	2.8	3.5	2.5	2.5	48	218	378	37	183	17
6	3.1	2.5	2.8	3.6	2.5	2.5	48	218	330	36	188	18
7	3.1	2.5	2.8	3.6	2.5	2.5	48	219	270	34	188	17
8	3.1	2.5	2.8	3.7	2.5	2.5	48	216	232	30	188	17
9	3.1	3.1	2.7	3.7	2.5	2.5	48	209	210	49	191	17
10	2.5	3.1	2.7	3.8	2.6	2.5	48	209	212	92	199	17
11	2.5	3.1	2.7	3.8	2.8	9.9	40	209	215	102	203	17
12	2.5	3.1	2.6	3.8	2.9	25	18	209	202	94	202	16
13	2.5	3.1	2.6	3.8	3	25	45	209	189	94	200	16
14	2.5	2.8	2.6	3.2	3.1	25	204	209	176	105	191	16
15	2.5	2.5	2.5	3.6	3.8	26	255	211	163	121	185	16
16	2.5	2.5	2.5	3.1	3.8	26	255	263	152	140	182	16
17	2.5	2.5	2.5	3.4	3.2	26	255	304	141	140	179	16
18	2.5	2.5	2.5	3.8	3.1	26	255	409	133	140	176	15
19	2.5	2.5	2.5	3.7	3.1	26	255	574	131	134	184	15
20	2.5	2.5	2.5	3	3.1	26	253	712	134	130	193	15
21	2.5	2.5	2.5	2.8	3.5	26	252	740	121	129	205	15
22	2.5	2.5	2.5	2.5	3.8	26	252	733	107	138	212	15
23	2.5	2.5	2.5	2.3	3.2	26	252	747	91	143	209	15
24	2.5	2.6	2.5	2	2.9	26	252	708	81	147	201	15
25	2.5	2.8	3.1	2.3	2.6	26	252	693	75	155	194	15
26	2.5	3.1	3.1	2.5	2.3	26	244	680	69	166	197	15
27	2.5	3.1	3.1	2.5	2.3	26	236	428	63	173	195	15
28	2.5	3.1	3.1	2.5	2.5	26	236	646	57	171	194	15
29	2.5	3.1	3.1	2.5	---	26	238	623	60	165	194	15
30	2.5	3	3.1	2.5	---	26	209	595	56	158	197	15
31	2.5	---	3.1	2.5	---	26	---	549	---	169	194	---
TOTAL	82.6	81.6	85.5	97.3	80.1	551.9	4683	12611	5877	3372	5949	772
MEAN	2.7	2.7	2.8	3.1	2.9	17.8	156	407	196	109	192	26
AC-FT	164	162	170	193	159	1090	9290	25010	11660	6690	11800	1530
MAX	3.1	3.1	3.1	3.8	3.8	26	255	747	536	173	212	192
MIN	2.5	2.5	2.5	2	2.3	2.5	18	209	56	30	176	15

CAL YR 2002 TOTAL 12213.1 MEAN 33.5 MAX 185 MIN 2.5 AC-FT 24220
WTR YR 2003 TOTAL 34243 MEAN 93.8 MAX 747 MIN 2 AC-FT 67920

MAX DISCH: 790 CFS AT 03:30 ON May. 21, 2003 GH 5 FT. SHIFT -0.02 FT.
MAX GH: 5 FT. AT 03:30 ON May. 21, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



GUNNISON RIVER BASIN

ABC LATERAL NEAR MONTROSE, CO

LOCATION.--Lat 38°29'06", long 107°44'57", in SE¼NE¼NE¼ sec. 27, T.49 N., R.8 W., Montrose County, on left bank of canal 270 ft. below takeout from South Canal, such takeout being 1700 ft. below the west portal of the Gunnison Tunnel.

GAGE.--Satellite (Sutron 8200 DCP) and Strip Chart Recorder (Stevens A35) in a culvert type shelter. The recorder and shaft encoder operate from floats and are set to an inside drop tape.

REMARKS.--Record is complete, good and reliable. The data were imported from the DCP EDL. The normal operating period of the canal was from Oct. 01, 2002 to Oct. 23, 2002 and from Mar. 24, 2003 through Sep. 30, 2003. The intervening period, from Oct.24, 2002 to Mar. 23, 2003 consisted of seepage from the Gunnison Tunnel. This year there were three occurrences of increased flow during this time. There were four periods of zero flow during the winter period. The increased flow was Nov.5&6,13&14 2002. The third period of increased flow was Dec. 9 & 10, 2002. The zero flow periods was Jan. 7, Feb. 20, Mar. 6 and Mar. 18-23, 2003. These zero flow days add up to a total of nine days. The AB and C Drop aka the AB Lateral Canal is part of the Gunnison Tunnel complex. The South Canal is the other part. The two structures are combined to account for the total diversion through the Gunnison Tunnel. Station maintained and record developed by Gerald M. Thrush.

RATING TABLE.--ABCLATCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

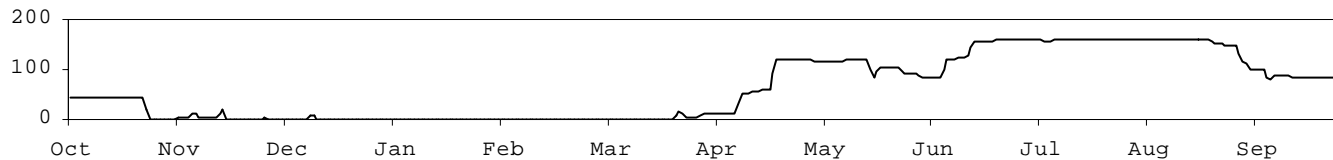
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	2.9	1.4	1.1	1.1	.81	13	120	94	161	160	150
2	44	2.9	1.4	1.2	1.1	.81	13	119	88	161	160	134
3	44	2.9	1.5	1.3	1.1	.81	13	118	83	161	160	116
4	44	2.9	1.5	1.3	.85	.81	13	118	83	160	161	112
5	44	13	1.5	1.3	.65	.31	13	118	85	160	161	100
6	44	13	1.4	1.2	.91	0	13	118	85	159	161	101
7	44	2.8	1.5	0	1.2	.63	13	118	86	159	161	101
8	43	4.2	1.5	.75	1.1	.92	13	118	86	158	161	102
9	43	4.1	7.9	1.1	1.1	.86	13	118	101	158	160	101
10	43	4	6.8	1.1	.92	.72	13	118	119	158	160	86
11	43	3.8	1.3	1.1	.92	.7	34	118	119	159	160	81
12	43	3.4	1.3	1.1	.92	.71	54	119	122	159	160	89
13	43	12	1.3	.92	.97	.67	54	120	125	159	160	89
14	43	20	1.3	.92	.99	.69	54	120	125	159	161	89
15	43	1.8	1.3	.92	.92	.69	56	119	125	160	161	89
16	43	1.6	1.4	.92	.92	.7	58	119	128	160	161	89
17	43	1.6	1.6	.82	.99	.26	58	119	145	160	161	85
18	43	1.6	1.8	.81	1	0	61	119	156	160	161	83
19	43	1.6	1.8	.81	.39	0	61	102	156	160	161	83
20	43	1.6	1.8	.81	0	0	61	84	157	160	160	84
21	43	1.5	1.6	1.5	.61	0	92	97	157	160	160	84
22	43	1.5	1.2	1.6	.98	0	122	105	158	160	160	84
23	19	1.5	.75	.97	.92	0	122	104	158	160	160	83
24	.22	1.5	.91	1.1	.92	9.6	122	104	159	160	160	83
25	.28	.76	1.1	1.2	.92	18	122	104	160	160	156	83
26	.98	2.4	1.1	1.2	.92	14	122	104	160	160	152	83
27	1.1	1.5	1.1	1.3	.92	5.1	121	105	160	160	152	83
28	1.2	1.4	1.1	1.3	.92	5.4	121	96	161	159	151	83
29	1.2	1.4	1.1	1.2	---	5.4	121	92	161	160	150	83
30	1.2	1.4	1.1	1.1	---	5.4	121	93	161	160	150	83
31	1.9	---	1.1	1.1	---	10	---	93	---	160	150	---
TOTAL	980.08	116.56	53.46	33.05	25.16	84	1867	3419	3863	4950	4912	2796
MEAN	31.6	3.89	1.72	1.07	.9	2.71	62	110	129	160	158	93
AC-FT	1940	231	106	66	50	167	3700	6780	7660	9820	9740	5550
MAX	44	20	7.9	1.6	1.2	18	122	120	161	161	161	150
MIN	.22	.76	.75	0	0	0	13	84	83	158	150	81

CAL YR 2002 TOTAL 26675.94 MEAN 73.1 MAX 170 MIN 0 AC-FT 52910
WTR YR 2003 TOTAL 23099.31 MEAN 63.3 MAX 161 MIN 0 AC-FT 45820

MAX DISCH: 162 CFS AT 01:45 ON Jun. 27, 2003 GH 3.4 FT. SHIFT -0.03 FT.
MAX GH: 3.47 FT. AT 21:15 ON Aug. 14, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



GUNNISON RIVER BASIN

SOUTH CANAL NEAR MONTROSE, CO

LOCATION.--Lat 38°29'01", long 107°45'20", in NE¼SW¼NE¼ sec 27, T.49 N., R.8 W., Montrose County, on right bank of canal approximately 3600 ft. below the west portal of the Gunnison Tunnel.

GAGE.--Water-stage recorder with satellite telemetry. A shaft encoder (shaft 8500) connected via buried telephone cable to the DCP at the AB Lateral shelter house and a Strip Chart Recorder (Stevens A35). The recorder and shaft encoder operate from a common float and are set to an inside drop tape. Stops have been installed since Oct. 31, 2000.

REMARKS.--Data was imported from the DCP EDL as the primary record and is complete, good and reliable during the normal operating season. The normal operating period was from the Oct. 1 to Oct.23, 2002 and from Mar. 24 to Sep 30, 2003. The early shut down, before the end of November, was because storage in Taylor Park Reservoir was exhausted. The intervening period reflected use on 11 occasions to fill Fairview Reservoir. These periods were Nov 6-7, 14-15, 25-26, Dec.9-11, 22-24, 2002, Jan. 6-7, 21-22, Feb. 4-5, 19-20 and Mar.5-6, 17-19 2003. There were two periods just after the fall shut down and before the spring startup that flow was estimated, and, therefore, the record is rated poor. These periods are Oct. 23 and 24, 2002 and Mar. 18-23, 2003. Station maintained and record developed by Gerald M. Thrush.

RATING TABLE.--SOUCANCO131 USED FROM 01-OCT-2002 TO 31-OCT-2002
SOUCANCO15 USED FROM 01-NOV-2002 TO 30-SEP-2003

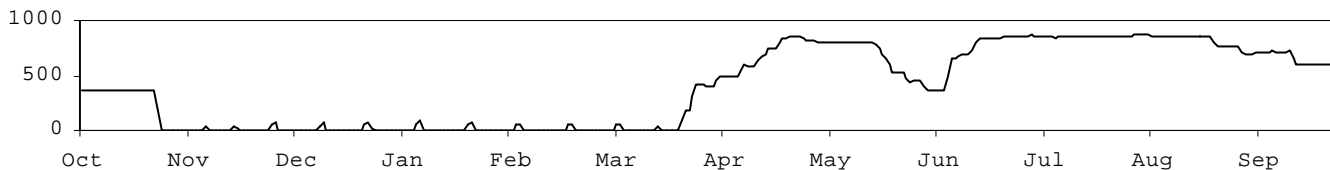
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	365	0	0	0	0	0	402	826	451	859	863	757
2	366	0	0	0	0	0	404	808	404	861	867	716
3	366	0	0	0	0	0	457	791	371	864	868	683
4	365	0	0	0	52	0	495	791	369	862	871	688
5	365	0	0	0	52	49	496	792	369	862	869	700
6	364	36	0	51	0	48	495	793	368	862	868	701
7	365	2.7	0	83	0	0	495	793	368	857	863	703
8	364	0	0	0	0	0	495	793	368	853	860	704
9	364	0	41	0	0	0	495	794	491	850	856	706
10	364	0	80	0	0	0	560	794	648	845	853	718
11	364	0	2.7	0	0	0	601	793	650	846	856	723
12	364	0	0	0	0	0	582	792	676	846	858	716
13	364	0	0	0	0	0	581	793	699	846	858	714
14	364	37	0	0	0	0	581	794	699	846	860	715
15	363	21	0	0	0	0	628	794	700	846	860	717
16	362	0	0	0	0	0	671	794	728	852	859	719
17	361	0	0	0	0	30	692	795	800	853	859	648
18	360	0	0	0	0	1	745	795	841	854	858	604
19	360	0	0	0	50	.75	743	779	838	853	856	605
20	358	0	0	0	58	.75	742	740	835	852	856	604
21	358	0	0	51	0	.75	793	688	833	860	856	605
22	355	0	53	76	0	.50	844	656	830	860	858	605
23	175	0	80	0	0	.50	845	591	829	857	861	605
24	2.5	0	13	0	0	92	846	520	842	858	860	605
25	0	48	0	0	0	175	847	520	859	857	808	605
26	0	72	0	0	0	180	850	520	861	855	758	605
27	0	0	0	0	0	317	853	520	862	852	760	603
28	0	0	0	0	0	411	837	468	863	855	760	604
29	0	0	0	0	---	411	824	444	863	862	759	605
30	0	0	0	0	---	411	825	447	860	861	759	605
31	0	---	0	0	---	405	---	451	---	863	759	---
TOTAL	8185.5	216.7	269.7	261	212	2533.25	19724	21669	20175	26509	26016	19888
MEAN	263	7.22	8.7	8.42	7.57	81.7	657	699	673	855	839	663
AC-FT	16180	430	535	518	421	5020	39120	42980	40020	52580	51600	39450
MAX	366	72	80	83	58	411	853	826	863	864	871	757
MIN	0	0	0	0	0	0	402	444	368	845	758	603

CAL YR 2002 TOTAL 153635.9 MEAN 421 MAX 871 MIN 0 AC-FT 304700
WTR YR 2003 TOTAL 145632.15 MEAN 399 MAX 871 MIN 0 AC-FT 288900

MAX DISCH: 874 CFS AT 08:00 ON Aug. 4, 2003 GH 3.38 FT. SHIFT -0.46 FT.
MAX GH: 3.56 FT. AT 05:30 ON Aug. 24, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



GUNNISON RIVER BASIN

REDLANDS CANAL NEAR GRAND JUNCTION, CO

LOCATION.--Lat 39°01'49", long 108°33'51", in NW¼SW¼NW¼ sec 35, T.1 S., R.1 W., Mesa County, on the Right bank of canal 650 ft. below the Redlands diversion dam.

GAGE.--Satellite (Sutron 8200 DCP) and Strip chart (Stevens A35) recorder. Floats operate from a 4 foot diameter cmp well in an 8 ft. by 10 ft. steel shed on a concrete pad. The shaft encoder and recorder are set to an inside drop tape.

REMARKS.--Record is complete, good and reliable. The primary record is taken from the Electronic Data Logger (EDL). The secondary record is the strip chart. The canal shut down for the winter on November 1, 2002, and started up after the winter shut down on March 24, 2003. Station maintained and record developed by Jerry Thrush.

RATING TABLE.--RLCGRJCO04 USED FROM 01-OCT-2002 TO 30-SEP-2003

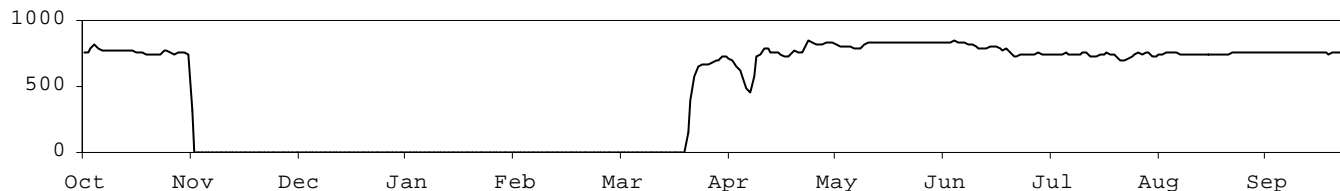
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	765	315	0	0	0	0	696	824	835	744	751	755
2	759	0	0	0	0	0	700	825	835	747	749	754
3	794	0	0	0	0	0	720	826	837	752	751	758
4	819	0	0	0	0	0	725	827	835	746	756	753
5	785	0	0	0	0	0	709	826	837	746	734	752
6	778	0	0	0	0	0	692	823	838	743	732	760
7	777	0	0	0	0	0	646	809	839	740	737	762
8	778	0	0	0	0	0	621	804	839	740	749	759
9	775	0	0	0	0	0	582	799	842	748	757	759
10	773	0	0	0	0	0	488	796	840	748	754	755
11	771	0	0	0	0	0	452	795	837	751	752	758
12	766	0	0	0	0	0	576	783	826	744	751	753
13	766	0	0	0	0	0	728	794	819	746	750	754
14	767	0	0	0	0	0	746	824	811	746	744	755
15	767	0	0	0	0	0	794	829	798	743	748	753
16	762	0	0	0	0	0	794	831	794	754	749	752
17	758	0	0	0	0	0	755	828	793	755	750	754
18	756	0	0	0	0	0	755	833	794	734	748	754
19	748	0	0	0	0	0	753	833	797	732	748	753
20	747	0	0	0	0	0	740	831	800	734	742	754
21	746	0	0	0	0	0	723	829	804	738	742	751
22	745	0	0	0	0	0	729	829	795	740	748	751
23	748	0	0	0	0	0	764	831	780	753	747	751
24	779	0	0	0	0	151	776	833	789	750	747	751
25	772	0	0	0	0	400	757	834	755	747	747	750
26	753	0	0	0	0	580	765	835	732	719	747	752
27	748	0	0	0	0	650	816	833	728	699	750	755
28	754	0	0	0	0	662	842	831	740	703	756	751
29	751	0	0	0	---	670	827	831	749	717	757	750
30	756	0	0	0	---	672	825	835	748	729	758	748
31	749	---	0	0	---	681	---	835	---	741	759	---
TOTAL	23712	315	0	0	0	4466	21496	25496	24066	22929	23210	22617
MEAN	765	10.5	0	0	0	144	717	822	802	740	749	754
AC-FT	47030	625	0	0	0	8860	42640	50570	47730	45480	46040	44860
MAX	819	315	0	0	0	681	842	835	842	755	759	762
MIN	745	0	0	0	0	0	452	783	728	699	732	748

CAL YR 2002 TOTAL 214503 MEAN 588 MAX 819 MIN 0 AC-FT 425500
WTR YR 2003 TOTAL 168307 MEAN 461 MAX 842 MIN 0 AC-FT 333800

MAX DISCH: 885 CFS AT 18:30 ON Apr. 28, 2003 GH 7.45 FT. SHIFT 0.08 FT.
MAX GH: 7.45 FT. AT 18:30 ON Apr. 28, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



GUNNISON RIVER BASIN

UNCOMPAHGRE RIVER NEAR OLATHE, CO

LOCATION.--Lat 38°36'5", long 107°58'58", SW¼SW¼ of NW¼ sec. 15, T.50 N., R. 10W, NMPM, and about 3,100 ft. above the S. H. 348 bridge and about 5,100 ft below the East Canal headgate and diversion structure, both stream distance. The gage is on the right bank and in Montrose County.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder with satellite telemetry. The DCP is the primary record with Electronic Data Logger as backup. The shelter is a 48 inch culvert with a Stevens A35 recorder and a Sutron 8200 DCP. These, are both activated by separate floats in the stilling well. The recorder and SE are set to an inside drop tape.

REMARKS.--The primary record is the electronic data from the Sutron 8200. The DCP is set to measure every five minutes. This record proves to be complete, reliable and good. This has been a dry irrigation season with supplemental reservoir water being used. The focus of this gage is for administration of the Uncompahgre Water Users Project as this gage is below their last diversion. Station maintained by Jerry Thrush and Steven Tuck. Record developed by Gerald M. Thrush.

RATING TABLE.--UNCOLACO6 USED FROM 01-OCT-2002 TO 30-SEP-2003

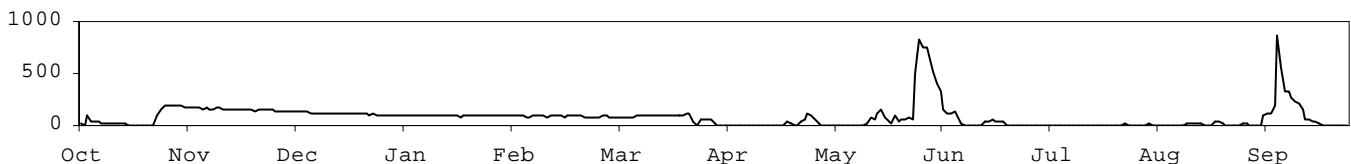
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	172	135	102	93	87	12	23	758	.77	1.3	9.8
2	8.3	169	133	96	93	85	3.7	1.7	679	.73	.75	6.2
3	89	166	132	101	94	82	.63	1.7	516	.82	9	.69
4	48	164	128	101	87	84	.69	2.2	401	.68	17	.78
5	43	160	126	99	88	85	.69	2.3	328	.65	.8	4.6
6	30	166	125	99	86	83	.69	1.6	154	1.4	4.6	93
7	24	158	124	98	84	83	.69	3.2	117	1.2	1.8	121
8	27	160	122	97	88	83	.73	3.1	111	1.1	5.9	110
9	23	168	118	99	91	85	.62	1.6	131	1	.44	198
10	22	172	122	103	87	90	.43	1.6	91	.87	.8	860
11	19	163	117	100	88	92	3.9	1.8	12	.87	.33	561
12	18	160	116	99	85	94	.34	1.7	1.3	2	2.2	328
13	19	156	116	94	88	97	0	1.6	5.3	4.2	2.1	330
14	9.9	155	113	92	94	104	1.5	1.8	1.1	7.5	4.2	277
15	2.9	155	114	94	92	97	.01	13	.82	.8	11	238
16	2.1	150	113	89	87	96	0	77	.77	7.9	15	202
17	.38	148	115	91	85	97	0	64	1.6	1.9	23	148
18	.31	149	115	85	93	99	.09	114	29	2.3	28	63
19	.31	146	112	87	91	97	1.2	149	35	1.5	13	56
20	.31	144	107	87	88	93	1.7	74	59	5.2	1.1	45
21	.31	145	112	88	87	95	2.1	50	48	2.6	.75	34
22	.31	150	108	89	87	94	37	17	36	1.4	4.8	13
23	87	153	104	89	85	96	23	99	34	1.3	30	1.9
24	161	150	108	87	86	108	2.5	48	5.7	1.1	33	2
25	200	148	104	88	86	109	2.1	63	3.9	1.3	27	2.4
26	197	144	103	88	86	42	29	56	.85	2.9	.57	3.5
27	195	138	103	89	84	4	62	75	.91	7.3	.44	2.2
28	184	133	104	91	88	65	113	61	.76	14	8.7	1.6
29	188	133	103	90	---	55	97	508	.7	4	.83	1.8
30	183	133	104	90	---	60	64	827	.7	4.3	3.8	2.4
31	178	---	100	93	---	55	---	752	---	2.6	10	---
TOTAL	1983.13	4608	3556	2895	2471	2596	461.31	3095.9	3563.41	86.19	262.21	3716.87
MEAN	64	154	115	93	88	83.7	15.4	99.9	119	2.78	8.46	124
AC-FT	3930	9140	7050	5740	4900	5150	915	6140	7070	171	520	7370
MAX	200	172	135	103	94	109	113	827	758	14	33	860
MIN	.31	133	100	85	84	4	0	1.6	.7	.65	.33	.69

CAL YR 2002 TOTAL 21999.61 MEAN 60.3 MAX 200 MIN .23 AC-FT 43640
WTR YR 2003 TOTAL 29295.02 MEAN 80.3 MAX 860 MIN 0 AC-FT 58110

MAX DISCH: 1020 CFS AT 05:30 ON Sep. 10, 2003 GH 4.83 FT. SHIFT 0.65 FT.
MAX GH: 4.83 FT. AT 05:30 ON Sep. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



BLUE RIVER BASIN

BLUE RIVER AT HIGHWAY 9 BRIDGE BELOW BRECKENRIDGE, CO

LOCATION.--Lat 39°32'29", long 106°02'40", in SE¼SW¼ sec. 7, T.6 S., R.77 W., Hydrologic Unit 14010004, Summit County, on right bank 25 ft. above Highway 9 Bridge, 3 1/2 miles north of Breckenridge and 2 1/4 miles south of Dillon Reservoir(Blue River Arm).

DRAINAGE AREA AND PERIOD OF RECORD.--N/A, Satellite telemetry began Nov. 25, 1996 and chart recording began May 29, 1997.

GAGE.--Graphic water-stage recorder and Sutron 8004 satellite telemetry system in exposed aggregate building. Well inside building has two intake pipes with flush risers outside. Recorder and shaft encoder are referenced to inside drop tape. Primary record is satellite data and chart record is used for backup. Sutron 8004 dcp replaced with 8210/HDR dcp on April 30, 2003. Control is rock and cobble riffle(low flows) and 8' culverts(high flows).

REMARKS.--Record is complete and reliable except for the following periods when ice was in the well: November 29 - March 9. Missing record was estimated using "ice corrections" (i.e., gage height changes noted when ice was chopped and removed from the well) and data from upstream station, Blue River at Blue River, from Goose Pasture Tarn reservoir releases, and from Breckenridge Ski Area snowmaking diversions. Record is good except for periods of well icing when record is fair. Transmountain diversions above the station occurred through the Continental-Hoosier Tunnel from April 9 - October 16 and through Boreas Pass Ditch from May 27 - July 28. Station maintained by Scott Hummer and George Wear. Records developed by George Wear.

RATING TABLE.--BLUNINCO07 USED FROM 01-OCT-2002 TO 16-OCT-2003

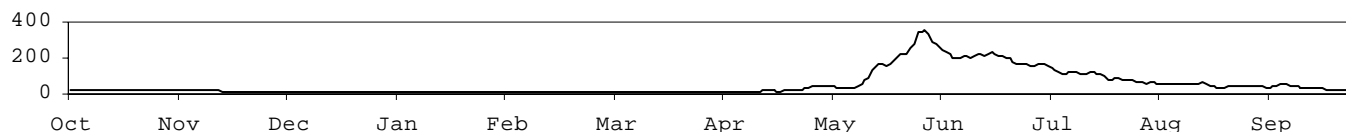
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	12	10	7.1	5.7	7.4	44	354	160	66	46
2	19	23	12	9.7	7.2	5.7	7.9	42	338	159	62	45
3	22	24	11	9.7	7.1	5.7	8.2	41	293	163	59	41
4	24	22	11	9.7	7	5.7	8	42	278	168	64	39
5	25	19	11	9.7	6.8	5.7	7.9	42	267	163	65	39
6	23	19	10	9.5	6.8	5.7	7.9	39	244	152	59	37
7	21	18	9.7	9.2	6.8	5.7	7.8	35	233	139	56	37
8	20	18	9.7	9.1	6.8	5.7	7.6	35	219	128	54	40
9	20	21	9.5	9.3	6.8	5.8	7.8	35	202	126	52	46
10	20	22	9.4	9.2	6.6	5.9	8.4	36	198	112	52	53
11	20	21	9.4	9.2	6.4	6.2	9.4	37	199	115	54	54
12	20	18	9.4	9.2	6.4	6.5	10	36	213	121	52	51
13	18	16	9.4	8.9	6.4	6.8	12	39	212	120	52	49
14	19	15	9.7	8.8	6.4	7.1	14	53	200	118	53	45
15	25	15	9.7	8.9	6.4	7.2	16	75	216	115	51	41
16	25	14	10	8.7	6.1	7.1	17	94	226	114	59	38
17	24	14	10	8.6	6.1	7.1	17	130	220	116	57	36
18	24	13	11	8.5	6.1	7	17	161	216	119	60	33
19	23	13	11	8.3	6.1	6.7	17	171	225	120	64	31
20	22	13	11	8.5	6.1	6.4	16	162	229	116	55	30
21	22	13	11	8.5	6	6.4	16	160	224	111	48	29
22	22	13	11	8.5	5.7	6.4	17	162	216	101	43	28
23	22	14	11	8.6	5.7	6.5	18	176	210	78	37	27
24	22	15	11	8.3	5.7	6.9	18	199	205	75	34	26
25	22	15	11	8	5.7	6.8	19	220	196	88	35	25
26	21	14	11	7.9	5.7	6.9	22	221	182	88	42	25
27	20	13	10	8	5.7	6.9	27	223	171	83	46	24
28	22	12	10	7.9	5.7	6.8	33	251	165	82	45	24
29	23	12	10	7.9	---	6.8	37	277	165	81	43	23
30	21	12	10	7.5	---	6.8	42	342	164	79	41	23
31	19	---	10	7.5	---	6.8	---	349	---	72	42	---
TOTAL	669	491	321.9	271.3	177.4	199.4	473.3	3929	6680	3582	1602	1085
MEAN	22	16	10.4	8.8	6.3	6.4	15.8	127	223	116	52	36
AC-FT	1330	974	638	538	352	396	939	7790	13250	7100	3180	2150
MAX	25	24	12	10	7.2	7.2	42	349	354	168	66	54
MIN	18	12	9.4	7.5	5.7	5.7	7.4	35	164	72	34	23

CAL YR 2002 TOTAL 6616.9 MEAN 18.1 MAX 44 MIN 9.4 AC-FT 13120
WTR YR 2003 TOTAL 19481.3 MEAN 53.4 MAX 354 MIN 5.7 AC-FT 38640

MAX DISCH: 383 CFS AT 13:00 ON Jun. 1, 2003 GH 2.63 FT. SHIFT 0.01 FT.
MAX GH: 2.63 FT. AT 13:00 ON Jun. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ROARING FORK RIVER BASIN

ROARING FORK RIVER BELOW MAROON CREEK NEAR ASPEN, CO

LOCATION.--Lat 39°13'30", long 106°51'30", NW¼SW¼ sec. 35, T.9 S., R.85 W., Pitkin County, on left bank at Aspen Consolidated Sanitation Plant 0.5 mi east of Aspen Airport and 0.8 mi downstream from confluence of Maroon Creek.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder and Sutron 8004 satellite telemetry system in exposed aggregate building over stilling well. Recorder and shaft encoder are referenced to inside drop tape. Primary record is satellite data and chart record is used for backup. Control is a rock and cobble riffle (low flows) and boulders (high flows). Elevation of gage is 7560 ft from topographic map. Drop tape on inside of well with local datum of 16.56 ft.

REMARKS.--Record is complete and reliable except for the following days: September 23, 24 and 29 when both the recorder and the satellite system malfunctioned. Stage-discharge relationship was affected by ice December 23-31 and February 6-14. Record is good except for periods of ice affected and/or estimated record, which is fair. Upstream transmountain diversions occurred through Twin Lakes Tunnel intermittently from October 7 through September 18 and through Hunter Tunnel for an undetermined period. Station maintained and records developed by George Wear.

RATING TABLE.--ROABMCCO3 USED FROM 01-OCT-2002 TO 30-SEP-2003

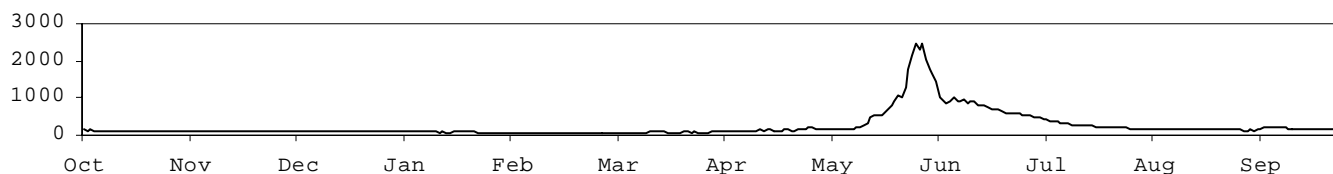
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	120	97	86	75	71	84	183	2480	519	184	138
2	132	121	93	84	76	69	89	171	2040	523	178	133
3	138	110	90	86	76	71	89	168	1750	501	175	132
4	131	107	88	84	75	72	89	183	1670	480	172	136
5	128	108	90	83	78	74	85	173	1430	456	162	132
6	124	103	85	82	74	73	89	160	1000	435	159	135
7	122	106	88	82	76	72	86	154	905	409	157	180
8	115	108	92	93	76	71	81	152	853	393	162	188
9	118	121	91	92	76	71	86	148	921	372	163	196
10	124	109	99	83	76	72	95	151	994	351	157	233
11	122	106	102	81	76	73	106	143	914	336	153	215
12	120	98	89	80	76	78	113	150	925	320	158	194
13	118	104	90	82	76	78	116	192	975	305	159	201
14	120	107	90	80	76	81	133	215	860	285	156	188
15	121	104	90	78	75	82	144	291	898	273	155	176
16	123	98	88	82	72	81	133	335	897	281	159	171
17	123	103	90	88	74	81	136	468	797	262	168	163
18	122	104	87	87	73	81	138	550	805	255	170	170
19	120	97	82	110	71	79	130	544	795	251	173	177
20	118	100	89	94	70	76	126	544	747	246	149	179
21	116	103	91	92	73	79	129	577	704	237	140	168
22	117	102	87	83	73	75	138	671	706	228	138	167
23	123	102	97	78	71	79	141	829	702	220	140	162
24	117	103	93	76	76	85	130	936	654	210	140	157
25	117	101	93	76	74	82	130	1050	596	203	138	155
26	116	85	93	75	72	80	146	1000	586	197	143	149
27	122	96	93	76	72	83	163	1280	583	230	149	146
28	116	108	93	76	71	77	175	1790	577	209	156	144
29	115	103	93	75	---	74	190	2140	566	215	143	141
30	109	99	93	75	---	77	197	2480	545	199	143	132
31	119	---	93	75	---	80	---	2290	---	185	146	---
TOTAL	3763	3136	2829	2574	2079	2377	3687	20118	28875	9586	4845	4958
MEAN	121	105	91	83	74	77	123	649	963	309	156	165
AC-FT	7460	6220	5610	5110	4120	4710	7310	39900	57270	19010	9610	9830
MAX	138	121	102	110	78	85	197	2480	2480	523	184	233
MIN	109	85	82	75	70	69	81	143	545	185	138	132

CAL YR 2002 TOTAL 53284 MEAN 146 MAX 700 MIN 62 AC-FT 105700
WTR YR 2003 TOTAL 88827 MEAN 243 MAX 2480 MIN 69 AC-FT 176200

MAX DISCH: 2720 CFS AT 01:00 ON May. 30, 2003 GH 5.75 FT. SHIFT -0.08 FT.
MAX GH: 5.75 FT. AT 01:00 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ROARING FORK RIVER BASIN

09080300 ROCKY FORK CREEK NEAR MEREDITH, CO

LOCATION.--Lat 39°21'42", long 106°49'12", in NW¼NW¼ sec. 18, T.8 S., R.84 W., Pitkin County, Hydrologic Unit 14010004 on right bank at upstream end of flume constructed to carry Rocky Fork Creek across spillway to auxiliary outlet of Ruedi Dam on Frying Pan River and 4.6 mi west of Meredith.

DRAINAGE AREA.--12.3 mi².

GAGE.--Graphic water-stage recorder in standard 42" corrugated metal pipe shelter and well; recorder connected to USBR digital equipment by means of chain; hard-wired to top of Ruedi Reservoir for satellite transmission. Recorder and USBR equipment are referenced to inside drop tape. Primary record is satellite data and chart record is used for backup. Control is v-notch, sharp crested weir. Datum of gage is 7,494.50 ft.

REMARKS.--Record is complete for the entire WY2003 but is unreliable due to beaver activity on all days except June 18-July 15, July 17-22, July 31-August 4, August 6-8, August 12-16, August 18-21, August 25, and September 9-30. Corrected gage heights were based on satellite data with shift and datum distribution, with chart record used to fill in missing data. Historic data (1997-2002) for this station were used to help estimate beaver-affected record. Record is fair to poor overall because of regular beaver activity in the control. There are no diversions above the station. Station maintained and records developed by George Wear.

RATING TABLE.--RFCMERCO01 USED FROM 01-OCT-2002 TO 28-OCT-2003

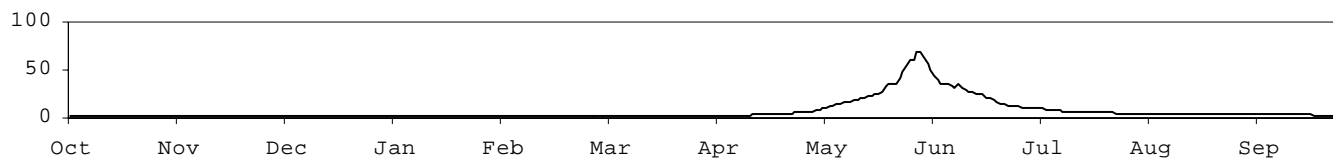
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.7	1.6	1.4	1.2	1.1	2.1	6	68	11	4.7	3.5
2	1.8	1.7	1.6	1.4	1.2	1.1	2.1	7	69	11	4.7	3.5
3	1.8	1.7	1.6	1.4	1.2	1.2	2.1	7.9	62	10	4.5	3.4
4	1.8	1.7	1.6	1.4	1.2	1.2	2.2	8.9	56	10	4.4	3.4
5	1.8	1.7	1.5	1.4	1.2	1.2	2.2	10	49	9.9	4.3	3.3
6	1.8	1.7	1.5	1.4	1.2	1.3	2.2	11	43	9.7	4.3	3.3
7	1.8	1.7	1.5	1.4	1.2	1.3	2.3	12	39	9.4	4.3	3.2
8	1.8	1.7	1.5	1.4	1.2	1.3	2.3	13	36	9	4.3	3.2
9	1.8	1.7	1.5	1.4	1.2	1.4	2.3	14	35	8.8	4.3	3.2
10	1.8	1.7	1.5	1.4	1.2	1.4	2.4	15	35	8.5	4.3	3.4
11	1.8	1.7	1.5	1.4	1.2	1.4	2.5	16	34	7.8	4.3	3.4
12	1.8	1.7	1.5	1.3	1.2	1.4	2.7	16	32	7.4	4.3	3.6
13	1.8	1.7	1.5	1.3	1.2	1.5	2.9	17	35	7.1	4.2	3.9
14	1.8	1.7	1.5	1.3	1.2	1.5	3	18	32	6.8	4	4
15	1.8	1.7	1.5	1.3	1.2	1.5	3.2	19	30	6.7	4	4.1
16	1.8	1.6	1.5	1.3	1.2	1.6	3.4	20	28	6.5	4	4.3
17	1.8	1.6	1.5	1.3	1.2	1.6	3.6	21	27	6.4	4	4
18	1.8	1.6	1.5	1.3	1.2	1.6	3.7	22	25	6.2	4.1	3.8
19	1.8	1.6	1.5	1.3	1.1	1.7	3.9	23	24	6.1	4	3.6
20	1.8	1.6	1.5	1.3	1.1	1.7	4.1	24	24	6	4	3.4
21	1.8	1.6	1.5	1.3	1.1	1.7	4.2	25	21	5.8	4	3.3
22	1.8	1.6	1.5	1.3	1.1	1.8	4.4	27	20	5.8	4	3.2
23	1.8	1.6	1.5	1.3	1.1	1.8	4.6	33	18	5.7	3.9	3.1
24	1.8	1.6	1.4	1.3	1.1	1.8	4.8	35	17	5.6	3.8	3
25	1.8	1.6	1.4	1.3	1.1	1.9	4.9	36	15	5.5	3.8	2.8
26	1.8	1.6	1.4	1.3	1.1	1.9	5.1	36	15	5.4	3.8	2.6
27	1.8	1.6	1.4	1.3	1.1	1.9	5.3	41	13	5.3	3.8	2.5
28	1.7	1.6	1.4	1.3	1.1	2	5.4	48	13	5.2	3.7	2.5
29	1.7	1.6	1.4	1.3	---	2	5.6	55	12	5.1	3.7	2.5
30	1.7	1.6	1.4	1.3	---	2	5.8	61	12	4.9	3.6	2.4
31	1.7	---	1.4	1.2	---	2	---	61	---	4.8	3.6	---
TOTAL	55.4	49.5	46.1	41.3	32.6	48.8	105.3	758.8	939	223.4	126.7	99.4
MEAN	1.8	1.7	1.5	1.3	1.2	1.6	3.5	24.5	31	7.2	4.1	3.3
AC-FT	110	98	91	82	65	97	209	1510	1860	443	251	197
MAX	1.8	1.7	1.6	1.4	1.2	2	5.8	61	69	11	4.7	4.3
MIN	1.7	1.6	1.4	1.2	1.1	1.1	2.1	6	12	4.8	3.6	2.4

CAL YR 2002 TOTAL 1128.8 MEAN 3.09 MAX 12 MIN 1.3 AC-FT 2240
WTR YR 2003 TOTAL 2526.3 MEAN 6.92 MAX 69 MIN 1.1 AC-FT 5010

MAX DISCH: 74.8 CFS AT 21:00 ON June 1, 2003 GH 1.55 FT. SHIFT -.01 FT.
MAX GH: 1.55 FT. AT 21:00 ON June 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ROARING FORK RIVER BASIN

09078600 FRYING PAN RIVER NEAR THOMASVILLE, CO (WY2002)

LOCATION.--Lat 39°20'41", long 106°40'23", in NW¼NW¼ sec. 21, T.8 S., R.83 W., Pitkin County, Hydrologic Unit 14010004, on right bank 400 ft upstream from private bridge, 400 ft downstream from North Fork, 1.6 mi southeast of Thomasville, and 1.7 mi northwest of Norrie.

DRAINAGE AREA.--134 mi².

GAGE.--Graphic water-stage recorder in standard 42" corrugated metal well with Sutron 8200 dcp satellite equipment. Recorder and shaft encoder are referenced to inside drop tape. Primary record is satellite data and chart record is used for backup. Control is a 100-ft. wide concrete dam 10 ft. below gage. Datum of gage is 8,210 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except for the following days when ice in the inlet pipe apparently affected gage heights to a small extent: December 14-26, January 2-3, 18-19, 23-30, February 3-5, 8-9, 12-16, 21, 27-28, and March 1-6. Record is good except for periods of highest flow and periods when the inlet pipe had minor icing, which are fair. Transmountain diversions above the station occurred through Boustead Tunnel from April 16 - June 13 and through Busk-Ivanhoe Tunnel from October 1 - 18, April 18 - July 10. Station maintained and records developed by George Wear.

RATING TABLE.--FRYTHOCO02 USED FROM 01-OCT-2001 TO 30-SEP-2002

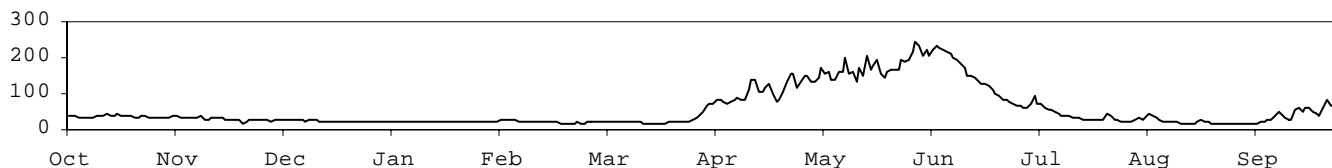
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	38	28	21	22	25	49	151	245	64	22	18
2	37	34	28	21	26	25	64	132	231	61	22	18
3	37	35	28	21	26	25	73	134	205	61	29	18
4	35	33	27	21	26	25	75	144	222	72	33	18
5	34	33	27	20	26	25	82	173	205	94	29	18
6	34	34	26	20	26	25	82	157	220	70	36	18
7	34	35	26	21	25	25	76	163	231	70	42	18
8	35	40	25	21	24	24	71	141	227	61	41	20
9	38	29	26	21	23	23	79	140	225	57	33	20
10	40	27	26	21	22	22	85	162	215	53	27	27
11	38	32	26	20	22	21	89	162	209	48	25	29
12	42	35	25	21	22	20	81	198	201	44	22	40
13	40	33	25	21	21	20	82	153	195	40	21	48
14	39	33	25	21	21	21	111	159	181	39	20	46
15	42	28	24	23	20	19	139	135	170	38	20	35
16	38	27	24	22	20	19	139	171	152	35	19	29
17	39	27	24	21	20	19	106	149	150	33	18	29
18	39	28	24	20	20	19	107	206	145	31	18	56
19	37	27	24	20	19	19	118	166	136	30	18	61
20	36	19	24	20	19	19	128	177	130	29	19	51
21	36	23	24	20	19	19	98	194	126	29	22	61
22	39	27	24	20	19	21	78	157	122	28	27	60
23	40	29	24	21	19	22	81	145	113	29	24	50
24	33	29	24	21	20	21	107	163	102	29	20	42
25	31	29	24	21	19	20	135	164	93	28	19	38
26	34	28	24	21	19	20	154	165	86	46	18	63
27	34	26	24	21	22	20	157	168	82	39	18	82
28	36	24	23	21	25	22	119	194	77	30	18	65
29	35	28	23	21	---	27	132	188	74	27	18	64
30	36	29	23	21	---	33	151	197	69	24	18	75
31	38	---	22	21	---	41	---	219	---	23	18	---
TOTAL	1144	899	771	646	612	706	3048	5127	4839	1362	734	1217
MEAN	37	30	25	21	22	23	102	165	161	44	24	41
AC-FT	2270	1780	1530	1280	1210	1400	6050	10170	9600	2700	1460	2410
MAX	42	40	28	23	26	41	157	219	245	94	42	82
MIN	31	19	22	20	19	19	49	132	69	23	18	18

CAL YR 2001 TOTAL NA MEAN NA MAX NA MIN NA AC-FT NA
WTR YR 2002 TOTAL 21105 MEAN 57.8 MAX 245 MIN 18 AC-FT 41860

MAX DISCH: 276 CFS AT 00:15 ON Jun. 1, 2002 GH 2.87 FT. SHIFT 0.01 FT.
MAX GH: 2.87 FT. AT 00:15 ON Jun. 1, 2002

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



ROARING FORK RIVER BASIN

09078600 FRYING PAN RIVER NEAR THOMASVILLE, CO (WY2003)

LOCATION.--Lat 39°20'41", long 106°40'23", in NW¼NW¼ sec. 21, T.8 S., R.83 W., Pitkin County, Hydrologic Unit 14010004, on right bank 400 ft upstream from private bridge, 400 ft downstream from North Fork, 1.6 mi southeast of Thomasville, and 1.7 mi northwest of Norrie.

DRAINAGE AREA.--134 mi².

GAGE.--Graphic water-stage recorder in standard 42" corrugated metal well with Sutron 8200 dcp satellite equipment. Recorder and shaft encoder are referenced to inside drop tape. Primary record is satellite data and chart record is used for backup. Control is a 100-ft. wide concrete dam 10 ft. below gage. Datum of gage is 8,210 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Record is complete and reliable except during the following periods: Dec 14-17, 2002 due to ice affecting the stage-discharge relationship; and, Dec 20-24, 27, 28; Jan 1, 2, 18-21; Feb 7-11, 2003 due to the intake pipe temporarily freezing. Record is good except for periods of highest flow and periods when ice was on the control and the inlet pipe had minor icing, which are fair. Transmountain diversions above the station occurred through Boustead Tunnel from May 13 - August 4, and through Busk-Ivanhoe Tunnel from May 16 - August 13. Station maintained by George Wear and records developed by Michael Craig.

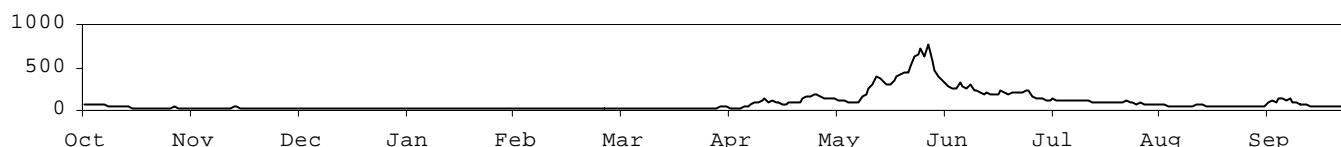
RATING TABLE.--FRYTHOCO02 USED FROM 01-OCT-2002 TO 28-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	34	27	21	19	19	33	153	762	174	92	45
2	64	33	27	20	19	18	39	133	577	150	79	39
3	67	24	26	20	19	18	40	133	461	143	76	39
4	63	27	25	20	19	18	35	151	392	133	79	40
5	63	30	26	20	19	18	33	130	355	124	70	37
6	62	23	25	19	18	18	32	114	302	119	65	52
7	61	26	24	19	18	19	30	105	275	130	62	100
8	58	30	24	19	18	19	31	110	254	123	65	109
9	54	30	23	19	20	19	35	101	266	118	59	104
10	49	31	24	19	18	19	50	102	315	112	55	133
11	46	33	25	19	17	20	68	93	269	119	53	139
12	43	30	26	19	18	21	83	104	252	113	56	118
13	37	35	26	19	19	23	93	160	313	109	56	138
14	37	35	23	19	19	25	126	186	240	107	55	101
15	34	31	23	19	18	26	135	250	228	112	48	83
16	34	29	22	18	18	26	103	304	204	111	49	73
17	32	31	24	19	19	25	106	395	194	106	65	66
18	32	30	24	18	18	25	102	383	201	104	82	60
19	31	30	23	18	18	25	85	346	188	100	74	58
20	29	29	23	18	18	25	78	302	196	96	59	55
21	28	30	24	18	19	25	76	294	185	94	51	51
22	29	30	23	18	19	25	83	343	221	96	51	49
23	33	31	22	18	19	27	89	401	199	96	55	46
24	31	31	22	18	19	30	82	420	181	95	54	44
25	30	29	21	19	19	28	90	433	202	91	52	43
26	27	27	21	18	19	29	131	440	210	87	50	43
27	36	29	21	18	19	29	157	506	217	91	49	41
28	33	29	20	18	19	28	165	627	220	112	47	39
29	29	28	20	19	---	28	176	659	242	94	44	38
30	24	27	20	18	---	26	177	726	230	88	45	36
31	34	---	20	18	---	27	---	629	---	80	52	---
TOTAL	1304	892	724	582	521	728	2563	9233	8351	3427	1849	2019
MEAN	42	30	23	19	19	24	85	298	278	111	60	67
AC-FT	2590	1770	1440	1150	1030	1440	5080	18310	16560	6800	3670	4000
MAX	74	35	27	21	20	30	177	726	762	174	92	139
MIN	24	23	20	18	17	18	30	93	181	80	44	36
CAL YR 2002	TOTAL	21211	MEAN	58.1	MAX	245	MIN	18	AC-FT	42070		
WTR YR 2003	TOTAL	32193	MEAN	88.2	MAX	762	MIN	17	AC-FT	63850		

MAX DISCH: 957 CFS AT 00:15 ON May. 30, 2003 GH 3.95 FT. SHIFT -0.02 FT.
MAX GH: 3.95 FT. AT 00:15 ON May. 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



YAMPA RIVER BASIN

09238500 WALTON CREEK NEAR STEAMBOAT SPRINGS, CO

LOCATION--Lat. 40°24'29", long. 106°47'11", (Steamboat Springs, Colorado, Quad., scale, 1:24,000), in SW1/4NW1/4 sec. 11, T5N, R84W, (projected), Routt County, on left bank 0.4 miles downstream from Beaver Creek, 0.6 miles downstream from Storm King Creek, 4.5 miles upstream from its confluence with the Yampa River, and 6.0 miles southeast of Steamboat Springs.

DRAINAGE AREA--42.4 sq mi (from topographic maps)

PERIOD OF RECORD--1920 to 1922, State Engineer's Office; re-established 0.2 mile upstream 1965 to 1973, by USGS; re-established 1978 to 1987 by USGS at same datum; re-established by the State Engineer's Office in October of 2000, at the same datum as the USGS.

GAGE--Stevens A-71 water stage recorder and Sutron 8200A data collection platform with digital shaft encoder housed in a 6-ft X 42-inch corrugated metal shelter on a 6-ft X 42-inch metal well. Control is a concrete dam across stream. Altitude of gage is 7,050 ft (from topographic map).

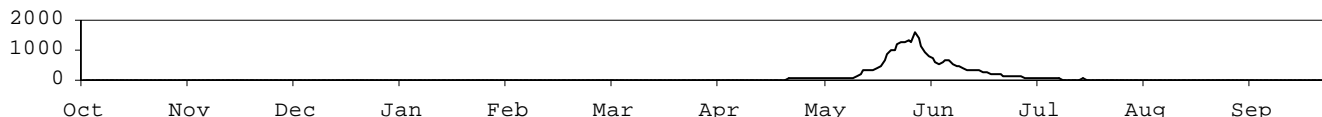
REMARKS--Data collection platform (DCP) installed May 21, 2002. Primary record is 15-minute data from the DCP with chart backup. Mean daily chart values were used for the following days: April 25 to April 28; August 10 to 13, August 20 to August 30; September 1 to September 7, September 9 and 17, September 21 to September 25. Continuous gage height records were kept from October 1 to November 4 and April 25 to September 30, 2003. Record was not kept during any ice-affected period. The record is complete and reliable except for the period when the station was shut down for the winter. The record is good except for the period May 16 to June 25, which is considered poor due to lack of definition of the high water rating. The station is closed during the winter months. Station maintained and record developed by Erin Light.

RATING TABLE--WLTNCKC008 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	8.2	0	0	0	0	0	62	1570	113	13	8.7
2	6.8	8	0	0	0	0	0	55	1370	102	12	7.5
3	16	7.6	0	0	0	0	0	58	1150	91	11	7.2
4	14	7.9	0	0	0	0	0	65	945	81	12	7.2
5	13	0	0	0	0	0	0	59	802	73	11	6.5
6	13	0	0	0	0	0	0	54	726	67	11	7.5
7	16	0	0	0	0	0	0	52	631	63	11	14
8	24	0	0	0	0	0	0	51	560	57	14	14
9	23	0	0	0	0	0	0	48	633	50	11	9.2
10	21	0	0	0	0	0	0	46	699	47	9.6	26
11	21	0	0	0	0	0	0	43	688	43	8.7	32
12	16	0	0	0	0	0	0	46	534	39	8.7	32
13	11	0	0	0	0	0	0	66	478	35	11	25
14	9.6	0	0	0	0	0	0	100	485	33	9.4	12
15	8.7	0	0	0	0	0	0	155	404	30	8.3	11
16	8.3	0	0	0	0	0	0	226	356	28	8.1	9.3
17	7.9	0	0	0	0	0	0	307	337	25	10	8.7
18	7.5	0	0	0	0	0	0	338	324	28	17	9.4
19	7.2	0	0	0	0	0	0	337	306	24	11	11
20	6.8	0	0	0	0	0	0	361	319	36	8.7	9.7
21	6.5	0	0	0	0	0	0	399	274	25	8.3	8.7
22	6.1	0	0	0	0	0	0	491	244	21	7.9	7.9
23	7.8	0	0	0	0	0	0	696	221	18	8.7	7.5
24	7.8	0	0	0	0	0	0	882	200	17	8.7	7.2
25	7.9	0	0	0	0	0	40	974	203	16	8.7	6.8
26	7.5	0	0	0	0	0	58	995	168	16	9.6	6.7
27	7.9	0	0	0	0	0	70	1180	150	15	7.9	6.5
28	8	0	0	0	0	0	70	1280	140	14	8.7	6.5
29	7.8	0	0	0	---	0	75	1290	133	16	7.5	6.5
30	7.8	0	0	0	---	0	73	1350	122	15	7.5	6.5
31	8.7	---	0	0	---	0	---	1280	---	13	11	---
TOTAL	342.1	31.7	0	0	0	0	386	13346	15172	1251	311	338.7
MEAN	11	1.06	0	0	0	0	12.9	431	506	40	10	11.3
AC-FT	679	63	0	0	0	0	766	26470	30090	2480	617	672
MAX	24	8.2	0	0	0	0	75	1350	1570	113	17	32
MIN	6.1	0	0	0	0	0	0	43	122	13	7.5	6.5

WTR YR 2003 TOTAL 31178.5 MEAN 85.4 MAX 1570 MIN 0 AC-FT 61840
 MAX DISCH: 2050 CFS AT 18:15 ON Jun. 1, 2003 GH 3.1 FT. SHIFT -0.01 FT.
 MAX GH: 3.1 FT. AT 18:15 ON Jun. 1, 2003
 FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



NORTH PLATTE RIVER BASIN

06616500 MICHIGAN RIVER near MEADOW CREEK RESERVOIR

LOCATION--Lat. 40°36'48", Long. 106°05'05", (Gould, Colorado Quadrangle, 1955), SE1/4 of the SE1/4 in Section 36 T8N, R78W in Jackson County. Under bridge on County Road 30 about 700 feet upstream of its confluence with Peterson Creek.

DRAINAGE AREA--Approximately 99 sq. mi.

PERIOD OF RECORD--Formerly known as the Michigan River near Gould station and was relocated due to removal of bridge location. Station has been in operation at this location since 1997.

GAGE--Sutron 8200A data collection platform with digital shaft encoder and satellite monitoring equipment, located on bridge abutment several meters away from river channel. The outside staff, with a range of 0.00 to 3.33 feet is located on the bridge abutment just to the left of the stilling well. GH readings above 3.33 were verified by setting a staff on top of the existing staff.

REMARKS--The record is good except for the period May 22 to May 25, which is considered fair. Station was closed during the winter October 31, 2002 to April 17, 2003. Primary record is hourly data from the data collection platform. Continuous gage height records were kept from October 1 to October 30, 2002 and April 18 to September 30, 2003. Record was not kept during any ice- effected period. The record is complete and reliable except for the following days: May 22 to May 25 due to the shaft encoder pulley cable being too long thus causing the weight on the one end to rest on the bottom of the well. Station maintained and record developed by Erin Light.

RATING TABLE--MICMERC005 USED FROM 01-OCT-2002 TO 31-OCT-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

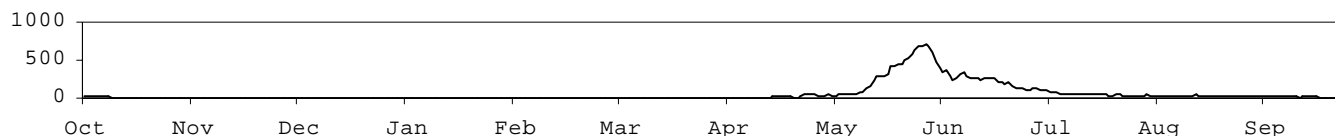
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	-	-	-	-	-	-	39	701	118	33	22
2	20	-	-	-	-	-	-	32	688	125	30	19
3	22	-	-	-	-	-	-	38	596	124	31	17
4	27	-	-	-	-	-	-	48	472	114	43	16
5	24	-	-	-	-	-	-	39	400	106	37	15
6	23	-	-	-	-	-	-	38	346	96	32	15
7	22	-	-	-	-	-	-	50	356	85	30	16
8	20	-	-	-	-	-	-	57	289	73	29	18
9	12	-	-	-	-	-	-	54	241	66	28	17
10	11	-	-	-	-	-	-	51	260	62	27	16
11	11	-	-	-	-	-	-	48	310	55	26	18
12	11	-	-	-	-	-	-	53	353	52	23	18
13	9.4	-	-	-	-	-	-	69	281	50	21	17
14	8.3	-	-	-	-	-	-	85	270	45	21	16
15	8.5	-	-	-	-	-	-	138	276	55	19	15
16	8.3	-	-	-	-	-	-	166	275	56	18	14
17	8.5	-	-	-	-	-	-	224	244	53	25	13
18	8	-	-	-	-	-	16	299	252	56	43	15
19	8	-	-	-	-	-	14	295	272	54	34	16
20	7.6	-	-	-	-	-	14	292	268	48	24	16
21	7.3	-	-	-	-	-	14	315	251	53	20	15
22	7.3	-	-	-	-	-	14	412	219	49	19	14
23	8	-	-	-	-	-	15	409	198	40	22	13
24	9.5	-	-	-	-	-	11	444	195	36	22	13
25	7.2	-	-	-	-	-	12	441	201	35	26	13
26	6.7	-	-	-	-	-	27	490	157	44	28	12
27	6.4	-	-	-	-	-	40	526	135	42	25	12
28	6.5	-	-	-	-	-	47	568	137	38	23	12
29	6.3	-	-	-	---	-	55	625	121	39	20	12
30	6.3	-	-	-	---	-	50	695	113	39	20	12
31	-	---	-	-	---	-	---	682	---	36	25	---
TOTAL	364.1	-	-	-	-	-	329	7722	8877	1944	824	457
MEAN	11.7	-	-	-	-	-	11	249	296	63	27	15
AC-FT	722	-	-	-	-	-	653	15320	17610	3860	1630	906
MAX	27	-	-	-	-	-	55	695	701	125	43	22
MIN	-	-	-	-	-	-	-	32	113	35	18	12

WTR YR 2003 TOTAL 20517.1 MEAN 56.2 MAX 701 MIN - AC-FT 40700

MAX DISCH: 742 CFS AT 13:00 ON May 30, 2003 GH 3.99 FT. SHIFT 0.01 FT.

MAX GH: 3.99 FT. AT 13:00 ON May 30, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



NORTH PLATTE RIVER BASIN

06617500 ILLINOIS RIVER NEAR RAND

LOCATION--Lat. 40°27'45", Long. 106°10'30", (Rand Quadrangle, 1956), in SW1/4NE1/4 of Section 29, T6N, R78W in Jackson County, on right upstream bridge abutment on Jackson County Road 27.

DRAINAGE AREA--Approximately 70.6 sq. mi. (from topographic maps)

PERIOD OF RECORD--Established by the State Engineer's Office. Formerly published as Illinois Creek near Rand (1931-1940) at similar location. Hydrographic measurements taken in 1981 and 1985, but no records were kept. Records kept from 1987 to present. Records published in 1995.

GAGE--Sutron 8200A data collection platform with digital shaft encoder satellite telemetry. DCP housed in metal box several meters up bank from 12" metal stilling well and shaft encoder. GH readings above 3.33 were verified by setting a staff on top of the existing staff. Approximate elevation of gage is 8550 feet.

REMARKS--Primary record is hourly data from the data collection platform. Continuous gage height records were kept from October 1 through November 3, 2002 and April 18 to September 30, 2003. Record was not kept during any ice-affected period. The record is complete and reliable except for the following days: Oct. 30 and 31, November 2 and 3, April 19 to 21, and April 23, due to possible ice effect, and September 9 due to equipment error. The record is good except for the periods October 30 and 31, November 2 and 3, April 19 to 21, April 23, and September 9, which are considered fair. Discharges were estimated for the following days: October 30 and 31, November 2 and 3, April 19 to 21, April 23, and September 9. The station is closed during the winter months. Station maintained and record developed by Erin Light.

RATING TABLE--ILLRANCO03 USED FROM 01-OCT-2002 TO 04-NOV-2002
ILLRANCO03 USED FROM 17-APR-2003 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

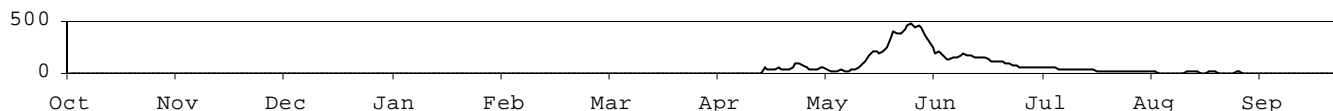
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	6	-	-	-	-	-	45	452	61	13	11
2	4.5	5.6	-	-	-	-	-	40	437	61	12	8.4
3	6.2	6.2	-	-	-	-	-	39	369	56	11	6.7
4	8.7	-	-	-	-	-	-	53	308	61	18	6.4
5	8	-	-	-	-	-	-	49	251	60	15	6
6	6	-	-	-	-	-	-	34	201	61	12	5.9
7	4.9	-	-	-	-	-	-	25	204	57	10	7.5
8	4.2	-	-	-	-	-	-	26	165	52	9.8	8.8
9	3.4	-	-	-	-	-	-	26	141	50	9.6	7.9
10	3.5	-	-	-	-	-	-	31	139	49	9.4	6.7
11	3.3	-	-	-	-	-	-	27	156	44	8	7.2
12	3	-	-	-	-	-	-	28	161	40	7.7	7.9
13	2.9	-	-	-	-	-	-	36	175	38	7.5	7
14	2.7	-	-	-	-	-	-	37	196	35	7.1	6
15	2.6	-	-	-	-	-	-	65	173	36	6	5.3
16	2.5	-	-	-	-	-	-	88	171	34	5.9	4.8
17	2.3	-	-	-	-	-	-	121	163	32	16	4.5
18	2.4	-	-	-	-	-	54	174	152	33	24	4.4
19	2.4	-	-	-	-	-	45	206	148	36	18	4.6
20	2.3	-	-	-	-	-	40	208	150	33	12	4.8
21	2.1	-	-	-	-	-	40	198	143	31	9.1	4.7
22	2.1	-	-	-	-	-	51	213	119	26	7.9	4.4
23	2.7	-	-	-	-	-	45	258	108	24	11	4.4
24	3.6	-	-	-	-	-	30	351	108	23	10	4.3
25	4.5	-	-	-	-	-	37	403	108	21	10	4.1
26	4.2	-	-	-	-	-	63	389	104	22	9.4	4.1
27	4	-	-	-	-	-	97	382	93	23	7.5	4
28	3.7	-	-	-	-	-	91	430	85	19	7.7	4.1
29	4.7	-	-	-	---	-	81	458	75	19	7.4	4
30	5.2	-	-	-	---	-	64	473	65	17	7.2	4
31	4.8	---	-	-	---	-	---	436	---	15	12	---
TOTAL	121.6	17.8	-	-	-	-	738	5349	5320	1169	331.2	173.9
MEAN	3.9	.59	-	-	-	-	24.6	173	177	38	10.7	5.8
AC-FT	241	35	-	-	-	-	1460	10610	10550	2320	657	345
MAX	8.7	6.2	-	-	-	-	97	473	452	61	24	11
MIN	2.1	-	-	-	-	-	-	25	65	15	5.9	4

WTR YR 2003 TOTAL 13220.5 MEAN 36.2 MAX 473 MIN - AC-FT 26220

MAX DISCH: 504 CFS AT 09:00 ON May. 30, 2003 GH 3.93 FT. SHIFT 0 FT. DATUM +0.01 FT.

MAX GH: 3.93 FT. AT 09:00 ON May. 30, 2003 DATUM +0.01 FT = MAX GH: 3.94

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



SAN JUAN RIVER BASIN

DOLORES TUNNEL OUTLET NEAR DOLORES, CO

LOCATION.--Lat 37°28'00", long 108°32'30", in SW¼SE¼ sec. 18, T. 37 N., R.15 W., NMPM, Montezuma County.

DRAINAGE AREA.--N/A

GAGE.--Sutron 8200 DCP in a concrete shelter and well at a 15 foot Parshall flume.

REMARKS.--Records good. Record is complete. Station maintained by the Dolores Conservancy District and records developed by Scott D. Brinton.

RATING TABLE.--DOLTUNCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

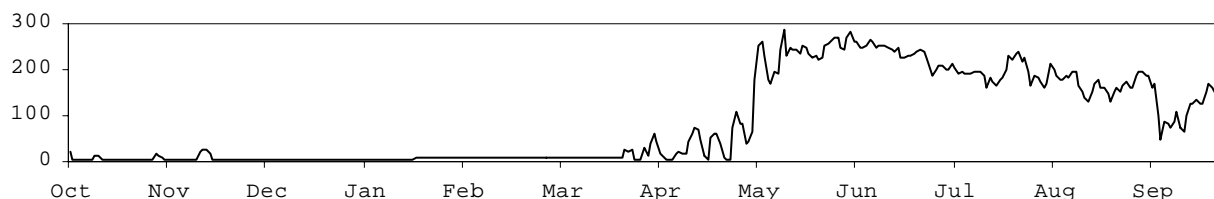
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	4.8	4.1	4.5	8.0	7.3	14	83	247	202	187	163
2	6.3	4.8	4.1	5.2	8.0	7.1	37	41	244	208	183	188
3	6.3	4.8	4.1	5.0	7.7	7.4	61	43	270	209	176	197
4	6.3	4.8	4.1	5.5	7.5	7.7	45	67	284	199	163	196
5	6.3	4.5	4.1	3.9	7.5	7.6	19	180	260	202	169	186
6	6.3	4.1	4.1	3.7	7.5	7.2	15	252	261	213	214	188
7	6.3	4.1	4.1	3.7	7.8	6.8	5.9	260	249	203	201	160
8	6.3	4.1	4.1	3.7	8.0	7.1	5.8	230	246	192	186	170
9	11	4.1	4.1	3.7	8.0	7.1	5.5	179	254	197	177	99
10	12	4.1	4.1	3.7	8.0	7.4	16	171	265	191	180	50
11	4.7	22	4.1	3.7	8.0	7.5	23	196	263	191	185	85
12	4.4	28	4.1	3.7	8.0	7.5	17	191	246	193	182	83
13	4.4	27	4.0	4.1	8.0	7.5	16	244	252	194	194	72
14	4.4	18	3.7	4.8	8.0	7.5	45	285	253	196	196	87
15	4.3	4.8	3.9	3.5	8.0	7.5	61	229	251	197	165	107
16	4.1	4.8	4.1	3.7	7.9	7.5	72	246	246	188	152	75
17	4.1	4.6	3.9	5.3	8.0	7.5	68	244	244	161	139	67
18	4.1	4.4	3.7	7.5	8.0	7.5	46	244	241	182	131	98
19	4.1	4.4	3.7	7.5	8.0	7.2	12	236	250	173	152	125
20	4.1	4.6	3.7	8.7	8.0	6.7	5.5	252	224	167	170	124
21	4.1	4.2	3.7	9.9	7.5	7.1	52	248	224	177	179	133
22	4.2	4.1	3.5	8.5	7.6	7.5	59	235	229	182	163	126
23	4.4	4.1	3.4	8.4	7.5	7.5	62	227	231	202	160	126
24	4.2	4.2	3.4	9.3	7.5	9.0	38	232	236	230	147	151
25	4.1	4.4	3.4	8.0	7.5	25	6.8	221	238	221	130	170
26	4.3	4.4	3.4	8.0	7.4	21	6.0	225	243	235	152	162
27	4.4	4.4	3.4	8.0	7.4	25	5.9	251	239	240	163	154
28	17	4.2	3.4	8.0	7.5	5.0	72	258	224	217	151	145
29	13	4.2	3.4	8.0	---	5.1	108	266	199	228	166	152
30	9.7	4.1	3.4	8.0	---	5.1	83	268	189	197	176	177
31	4.8	---	3.5	8.0	---	31	---	271	---	166	161	---
TOTAL	205.0	209.1	117.8	187.2	217.8	294.9	1082.4	6575	7302	6153	5250	4016
MEAN	6.6	7.0	3.8	6.0	7.8	9.5	36.1	212	243	198	169	134
AC-FT	407	415	234	371	432	585	2150	13040	14480	12200	10410	7970
MAX	21	28	4.1	9.9	8.0	31	108	285	284	240	214	197
MIN	4.1	4.1	3.4	3.5	7.4	5.0	5.5	41	189	161	130	50

CAL YR	2002	TOTAL	22435.8	MEAN	61.5	MAX	248	MIN	3.4	AC-FT	44500
WTR YR	2003	TOTAL	31610.2	MEAN	86.6	MAX	285	MIN	3.4	AC-FT	62700

MAX DISCH: 318 CFS AT 06:30 ON May. 14, 2003 GH 2.77 FT. SHIFT 0.11 FT.
MAX GH: 2.77 FT. AT 06:30 ON May. 14, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



SAN JUAN RIVER BASIN

LONE PINE CANAL BELOW GREAT CUT DIKE NEAR DOLORES, CO

LOCATION.--Lat 37°30'24", long 108°35'28", in NW¼SW¼ sec. 35, T.38 N., R.16 W., NMPM, Montezuma County.

DRAINAGE AREA.--N/A

GAGE.--Sutron 8200 DCP in a concrete shelter and well at a 12 foot Parshall flume.

REMARKS.--Records good. Record is complete. Station maintained by the Dolores Conservancy District and records developed by Scott D. Brinton.

RATING TABLE.-- MVIDIVCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

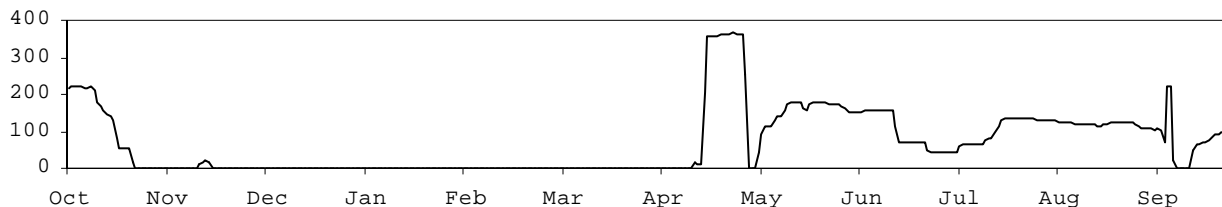
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	.00	.00	.00	.00	.00	.00	253	163	42	131	114
2	224	.00	.00	.00	.00	.00	.00	.00	154	42	130	110
3	223	.00	.00	.00	.00	.00	.00	.00	154	42	130	108
4	221	.00	.00	.00	.00	.00	.00	.00	153	43	130	107
5	219	.00	.00	.00	.00	.00	.00	43	153	43	128	106
6	216	.00	.00	.00	.00	.00	.00	90	153	44	128	105
7	217	.00	.00	.00	.00	.00	.00	111	156	58	127	106
8	224	.00	.00	.00	.00	.00	.00	111	157	66	125	104
9	212	.00	.00	.00	.00	.00	.00	112	157	66	124	70
10	178	.00	.00	.00	.00	.00	.00	131	157	67	123	223
11	165	9.0	.00	.00	.00	.00	.00	141	157	67	122	222
12	159	17	.00	.00	.00	.00	.00	141	157	67	121	22
13	148	21	.00	.00	.00	.00	.00	156	157	67	120	.00
14	138	15	.00	.00	.00	.00	2.1	175	157	66	119	.00
15	131	.00	.00	.00	.00	.00	16	180	158	75	119	.00
16	80	.00	.00	.00	.00	.00	11	180	158	81	119	.00
17	55	.00	.00	.00	.00	.00	8.7	178	111	80	120	.00
18	53	.00	.00	.00	.00	.00	203	181	68	95	118	47
19	54	.00	.00	.00	.00	.00	359	162	69	115	116	63
20	54	.00	.00	.00	.00	.00	359	155	70	132	116	66
21	17	.00	.00	.00	.00	.00	358	171	72	136	117	71
22	.00	.00	.00	.00	.00	.00	359	180	72	136	120	71
23	.00	.00	.00	.00	.00	.00	360	179	72	136	123	76
24	.00	.00	.00	.00	.00	.00	360	178	71	136	123	85
25	.00	.00	.00	.00	.00	.00	360	178	71	134	126	90
26	.00	.00	.00	.00	.00	.00	361	179	70	133	126	94
27	.00	.00	.00	.00	.00	.00	365	174	51	134	127	96
28	.00	.00	.00	.00	.00	.00	363	171	43	133	126	95
29	.00	.00	.00	.00	---	.00	362	171	43	136	125	102
30	.00	.00	.00	.00	---	.00	364	171	43	134	124	114
31	.00	---	.00	.00	---	.00	---	170	---	132	118	---
TOTAL	3206	62.00	.00	.00	.00	.00	4570.80	4422.00	3427	2838	3821	2467
MEAN	103	2.07	.00	.00	.00	.00	152	143	114	92	123	82.2
AC-FT	6360	123	.00	.00	.00	.00	9070	8770	6800	5630	7580	4890
MAX	224	21	.00	.00	.00	.00	365	253	163	136	131	223
MIN	.00	.00	.00	.00	.00	.00	.00	.00	43	42	116	.00

CAL YR 2002 TOTAL 14346.19 MEAN 39.3 MAX 224 MIN .00 AC-FT 28460
WTR YR 2003 TOTAL 24813.80 MEAN 68.0 MAX 365 MIN .00 AC-FT 49220

MAX DISCH: 423 CFS AT 12:15 ON Apr. 18, 2003 GH 3.86 FT. SHIFT 0.05 FT.
MAX GH: 3.86 FT. AT 12:15 ON Apr. 18, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



DOLORES RIVER BASIN

DOLORES RIVER BELOW MCPHEE RESERVOIR NEAR DOLORES, CO

LOCATION.--Lat 37°34'33", long 108°34'33", in SE¼SE¼ sec. 2, T.38 N., R.16 W., NMPM, Montezuma County.

DRAINAGE AREA.--550 mi².

GAGE.--Graphic water-stage recorder and a Sutron 8200 DCP on separate floats in a concrete shelter and well. Control is an 15-ft. Parshall flume set in a flat concrete structure that acts as a weir at high flows. Datum of gauge is 6,630 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Record is complete. Diversions for irrigation of up to 47,000 acres upstream of gage in the Dolores River basin and diversions for irrigation of up to 4700 acres in the San Juan River Basin. Flow regulated by McPhee Reservoir, capacity 381,000 acre-feet. Station maintained and records developed by Scott D. Brinton.

RATING TABLE.--DOLBMCC03 USED FROM 01-OCT-2002 TO 30-SEP-2003

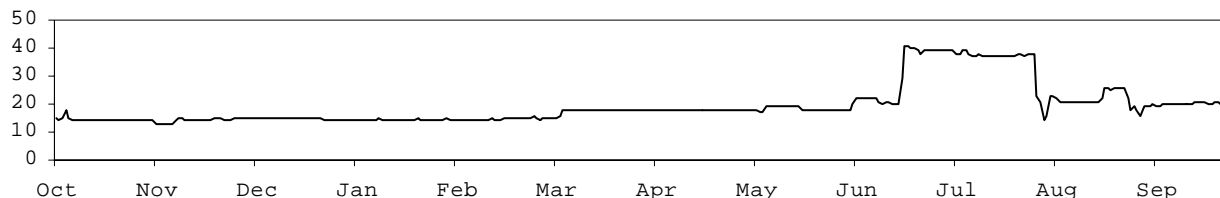
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	13	15	14	14	15	18	18	18	39	23	18
2	14	13	15	14	14	15	18	18	18	39	21	16
3	15	13	15	14	14	15	18	18	18	39	14	19
4	18	13	15	14	14	15	18	18	18	39	16	19
5	15	13	15	14	14	15	18	18	20	39	23	19
6	14	13	15	14	14	16	18	18	22	39	23	20
7	14	14	15	14	14	18	18	17	22	38	22	19
8	14	15	15	14	14	18	18	17	22	38	21	19
9	14	15	15	15	14	18	18	19	22	39	21	20
10	14	14	15	14	14	18	18	19	22	39	21	20
11	14	14	15	14	14	18	18	19	22	38	21	20
12	14	14	15	14	14	18	18	19	22	37	21	20
13	14	14	15	14	15	18	18	19	21	37	21	20
14	14	14	15	14	14	18	18	19	20	38	21	20
15	14	14	15	14	14	18	18	19	21	37	21	20
16	14	14	15	14	14	18	18	19	21	37	21	20
17	14	14	15	14	15	18	18	19	20	37	21	20
18	14	14	15	14	15	18	18	19	20	37	21	20
19	14	15	15	14	15	18	18	19	20	37	21	21
20	14	15	15	14	15	18	18	18	29	37	21	21
21	14	15	15	15	15	18	18	18	41	37	22	21
22	14	14	15	14	15	18	18	18	41	37	26	21
23	14	14	14	14	15	18	18	18	40	37	26	20
24	14	14	14	14	15	18	18	18	40	37	25	20
25	14	15	14	14	15	18	18	18	39	37	26	21
26	14	15	14	14	16	18	18	18	38	38	26	21
27	14	15	14	14	15	18	18	18	39	38	26	20
28	14	15	14	14	14	18	18	18	39	37	26	20
29	14	15	14	14	---	18	18	18	39	38	22	20
30	14	15	14	15	---	18	18	18	39	38	18	20
31	14	---	14	14	---	18	---	18	---	38	19	---
TOTAL	441	425	456	437	405	541	540	567	813	1172	677	595
MEAN	14	14	15	14	15	18	18	18	27	38	22	20
AC-FT	875	843	904	867	803	1070	1070	1120	1610	2320	1340	1180
MAX	18	15	15	15	16	18	18	19	41	39	26	21
MIN	14	13	14	14	14	15	18	17	18	37	14	16

CAL YR	2002	TOTAL	7250	MEAN	19.9	MAX	34	MIN	13	AC-FT	14380
WTR YR	2003	TOTAL	7069	MEAN	19.4	MAX	41	MIN	13	AC-FT	14020

MAX DISCH: 41.3 CFS AT 17:45 ON Jun. 20, 2003 GH 0.86 FT. SHIFT -0.05 FT.
MAX GH: 0.87 FT. AT 19:00 ON Jul. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



SAN JUAN RIVER BASIN

BLANCO DIVERSION NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°12'13", long 106°48'35", in NW¼NE¼ sec. 11, T.34 N., R.1 E., NMPM, Archuleta County.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder with a Sutron 8200 DCP on separate floats in a concrete shelter and well at a 12 foot Parshall flume.

REMARKS.--Records good. Record is complete. Station maintained by the U.S.B.R. and records developed by Scott D. Brinton.

RATING TABLE.--BLADIVCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

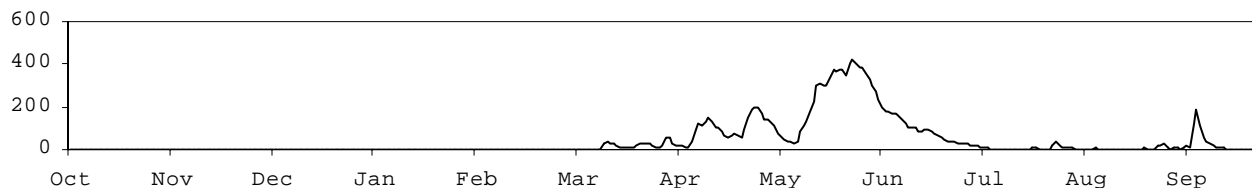
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	1.6	52	137	353	27	12	5.6
2	.00	.00	.00	.00	.00	1.4	54	136	329	25	9.8	4.4
3	.55	.00	.00	.00	.00	1.5	31	131	303	23	6.5	6.1
4	1.2	.00	.00	.00	.00	1.6	21	110	274	21	2.5	5.2
5	1.2	.00	.00	.00	.00	1.5	21	79	237	15	1.1	4.1
6	1.1	.00	.00	.00	.00	1.2	18	62	194	8.9	.27	12
7	.98	.00	.00	.00	.00	1.5	14	50	177	7.6	.39	18
8	.72	.00	.00	.00	.00	1.5	12	41	174	5.6	.04	8.6
9	.39	.00	.00	.00	.00	1.6	41	33	171	1.7	.00	125
10	.00	.00	.00	.00	.00	1.6	95	32	166	1.2	13	186
11	.00	.00	.00	.00	.00	1.6	124	37	156	3.1	3.3	108
12	.00	.00	.00	.00	.00	1.6	114	88	137	2.9	.59	59
13	.00	.00	.00	.00	.00	27	130	108	122	.53	.29	40
14	.00	.00	.00	.00	.00	37	154	128	106	.93	.00	28
15	.00	.00	.00	.00	.00	31	135	181	99	1.3	.00	20
16	.00	.00	.00	.00	.00	29	99	223	99	.88	.00	14
17	.00	.00	.00	.00	.00	19	107	300	83	1.0	.00	9.1
18	.00	.00	.00	.00	.00	12	84	305	83	.33	.00	6.1
19	.00	.00	.00	.00	.25	7.3	63	299	93	.00	.00	4.1
20	.00	.00	.00	.00	.54	4.9	57	298	95	.13	.00	3.0
21	.00	.00	.00	.00	.80	5.1	69	334	82	1.2	.00	1.5
22	.00	.00	.00	.00	.52	5.6	71	371	76	5.6	.36	.86
23	.00	.00	.00	.00	.54	17	66	369	69	6.8	.00	.99
24	.00	.00	.00	.00	.73	26	60	374	60	1.3	.00	.66
25	.00	.00	.00	.00	1.5	25	93	373	51	.00	11	.79
26	.00	.00	.00	.00	1.6	29	146	349	42	.00	4.6	.67
27	.00	.00	.00	.00	1.6	26	183	401	37	.33	.48	.15
28	.00	.00	.00	.00	1.5	16	201	420	36	19	2.0	.22
29	.00	.00	.00	.00	---	11	193	402	32	42	18	.26
30	.00	.00	.00	.00	---	10	172	384	29	23	17	.19
31	.00	---	.00	.00	---	23	---	389	---	14	28	---
TOTAL	6.14	.00	.00	.00	9.58	379.1	2680	6944	3965	260.33	131.22	672.59
MEAN	.20	.00	.00	.00	.34	12.2	89	224	132	8.4	4.23	22.4
AC-FT	12	.00	.00	.00	.19	752	5320	13770	7860	516	260	1330
MAX	1.2	.00	.00	.00	1.60	37	201	420	353	42	28	186
MIN	.00	.00	.00	.00	.00	1.2	12	32	29	.00	.00	.15

CAL YR 2002 TOTAL 2000.05 MEAN 5.48 MAX 78 MIN .00 AC-FT 3970
WTR YR 2003 TOTAL 15047.96 MEAN 41.2 MAX 420 MIN .00 AC-FT 29850

MAX DISCH: 482 CFS AT 19:45 ON May. 22, 2003 GH 4.30 FT. SHIFT 0.00 FT.
MAX GH: 4.30 FT. AT 19:45 ON May. 22, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



SAN JUAN RIVER BASIN

09343300 RIO BLANCO BELOW BLANCO DIVERSION DAM, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°12'13", long 106°48'42", in NW¼ sec. 11, T.34 N., R.1 E., NMPM, Archuleta County, Hydrologic Unit 14080101, on left bank 250 ft downstream from Blanco Diversion Dam, 1.1 mi downstream from Leche Creek, and 12 mi southeast of Pagosa Springs.

DRAINAGE AREA AND PERIOD OF RECORD.--69.1 mi². March 1971 to current year.

GAGE.--Graphic water-stage recorder with a Sutron 8200 DCP on separate floats in a concrete shelter and well. Control is an 4-ft. Parshall flume set in a flat wide concrete structure that acts as a weir at high flows, with a supplemental outside gage. The DCP is the primary record. Datum of gage is 7,858.04 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Bureau of Reclamation).

REMARKS.--Record from the DCP is complete, any data missing from the initial satellite transmissions was filled in from the DCP's logger files. It is reliable except for the following periods: Stage-discharge relationship affected by ice Nov. 12 and 16-30; Dec. 2, 6-12, 15-16, 19 and 27, 2002; Jan. 13-16 and 24-31; Feb. 1, 2003. Indefinite stage-discharge relationship due to a sand and silt berm placed by the USBR on the control section July 28 and Aug. 23, 2003. Indefinite stage-discharge relationship due to trash lodged in the flume Sep. 9-10, 2003. Record good except for estimated daily discharges, which are poor, and periods of flow above 65 cfs which are fair. Station maintained and record developed by Scott D. Brinton.

RATING TABLE.--RIOBLACO06 USED FROM 01-OCT-2002 TO 30-SEP-2003

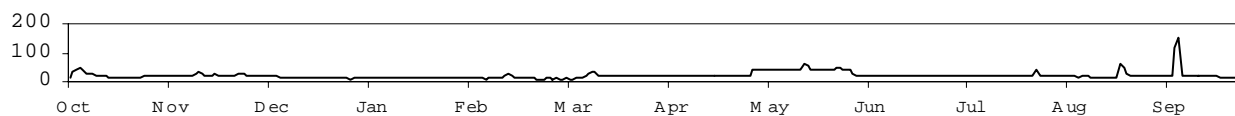
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	19	22	12	e17	12	22	41	27	21	21	21
2	32	20	e18	11	17	10	22	41	23	22	21	21
3	44	18	19	13	16	10	22	41	23	22	21	21
4	46	20	19	14	15	11	22	40	22	22	21	21
5	39	19	17	14	14	9.8	22	41	22	21	21	21
6	29	20	e16	14	13	10	21	42	22	21	20	21
7	27	22	e16	13	10	11	22	42	22	22	20	22
8	25	23	e14	15	12	13	23	41	22	22	19	21
9	23	28	e14	17	11	16	23	41	22	21	18	e120
10	20	34	e12	15	11	20	23	41	22	21	17	e150
11	19	27	e12	14	12	26	23	41	21	21	19	21
12	18	e22	e11	13	12	37	23	41	22	22	20	22
13	16	23	12	e14	18	32	23	40	21	23	19	23
14	15	24	12	e16	25	23	23	41	22	21	17	23
15	14	25	e11	e14	20	22	22	41	22	19	14	22
16	13	e22	e11	e14	17	22	23	40	21	18	13	21
17	13	e24	11	13	14	22	24	63	21	19	13	21
18	13	e20	12	13	14	22	23	52	21	19	13	21
19	12	e20	e11	14	12	22	22	41	21	19	12	21
20	12	e22	11	15	11	23	21	41	21	20	11	20
21	11	e24	12	16	12	23	21	41	21	24	11	20
22	12	e26	12	15	11	22	21	43	21	22	13	19
23	15	e28	12	15	10	23	21	41	22	20	e60	17
24	19	e26	11	e16	10	24	21	42	23	20	48	12
25	18	e24	11	e16	10	24	22	42	22	20	26	12
26	19	e22	11	e15	11	22	22	42	22	21	20	16
27	21	e20	e9.0	e16	11	22	22	46	21	22	21	15
28	20	e22	12	e17	10	23	21	50	21	e42	20	14
29	20	e20	13	e16	---	23	22	42	20	23	22	14
30	18	e22	12	e16	---	22	23	42	22	20	22	14
31	19	---	12	e16	---	23	---	41	---	21	22	---
TOTAL	639	686	408	452	376	624.8	665	1324	655	671	635	807
MEAN	21.0	23.0	13.2	15.0	13.0	20.2	22.0	43.0	22.0	22.0	21.0	27
AC-FT	1270	1360	809	897	746	1240	1320	2630	1300	1330	1260	1600
MAX	46	34	22	17	25	37	24	63	27	42	60	150
MIN	11	18	9.0	11	10	9.8	21	40	20	18	11	12

CAL YR 2002 TOTAL 6035.7 MEAN 16.5 MAX 61 MIN 3.6 AC-FT 11970
WTR YR 2003 TOTAL 7942.8 MEAN 21.8 MAX 150 MIN 9.0 AC-FT 15750

MAX DISCH: Undetermined
MAX GH: 4.48 FT. AT 00:45 ON Sep. 10, 2003 (Backwater from trash in flume)

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

RIO BLANCO AT MOUTH NEAR TRUJILLO, CO

LOCATION.--Lat 37°07'40", long 107°02'03", in SW¼SE¼ sec. 2, T.33 N., R.2 W., NMPM, Archuleta County.

DRAINAGE AREA.--170 mi².

GAGE.--Graphic water-stage recorder and a Sutron 8210 DCP on separate floats in a 42 inch CMP shelter and well. Datum of gauge is 6640 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Record is reliable except for the following periods: Stage-discharge relationship affected by ice Nov. 20-23, 25 and 28-30; Dec. 1-31, 2002; Jan. 1-31; Feb. 1-28; March 1-12, 2003. Record is complete except for the following periods: June 4-20; Aug. 24-31; Sep. 1-4, 2003 when the inlets were plugged. Record fair except for the estimated periods, which are poor. Station maintained by Val Valentine and records developed by Scott D. Brinton.

RATING TABLE.--RIOMOUCO03 USED FROM 01-OCT-2002 TO 30-SEP-2003

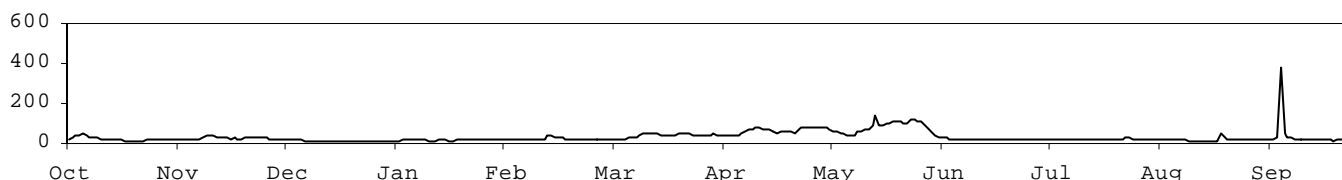
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	23	e18	e14	e22	e18	43	83	92	20	19	e20
2	29	23	e16	e12	e22	e16	50	85	71	20	19	e20
3	44	23	e18	e14	e20	e16	45	82	61	20	19	e20
4	40	24	e18	e16	e18	e18	42	77	e40	19	18	e20
5	48	24	e16	e16	e18	e16	41	69	e30	19	18	20
6	37	23	e16	e16	e18	e18	41	64	e28	19	18	21
7	33	25	e14	e16	e16	e20	40	60	e26	18	18	21
8	30	27	e14	e16	e18	e22	38	54	e24	18	17	21
9	27	41	e14	e18	e16	e26	41	50	e22	17	16	35
10	24	43	e12	e16	e16	e30	48	45	e22	17	16	384
11	23	36	e12	e14	e18	e34	62	43	e22	18	17	49
12	22	28	e12	e14	e20	e42	68	45	e22	18	19	28
13	20	27	e12	e14	e24	e5	66	62	e22	19	18	26
14	19	28	e12	e16	e36	48	77	62	e22	20	17	24
15	18	29	e12	e16	e40	47	85	75	e22	17	15	24
16	17	25	e12	e16	e34	49	73	74	e22	17	15	23
17	15	27	e12	e14	e30	48	72	93	e20	17	14	23
18	15	25	e12	e14	e26	45	68	139	e20	17	14	23
19	15	24	e10	e16	e22	42	60	92	e20	17	14	23
20	15	e28	e10	e16	e18	40	53	95	e20	17	13	23
21	14	e30	e12	e16	e20	44	58	99	21	19	12	22
22	15	e32	e12	e18	e18	42	59	98	20	21	13	22
23	16	e34	e12	e18	e16	48	64	107	20	18	15	21
24	21	33	e12	e18	e16	51	57	109	20	18	e50	18
25	22	e30	e12	e18	e16	50	54	114	20	19	e30	15
26	21	27	e12	e18	e18	49	69	105	20	19	e24	16
27	24	25	e10	e18	e18	45	82	104	20	20	e22	18
28	24	e16	e12	e20	e16	42	85	118	20	30	e22	17
29	24	e16	e12	e20	---	39	85	121	20	28	e20	16
30	22	e16	e14	e20	---	38	78	106	19	21	e20	16
31	22	---	e14	e20	---	39	---	107	---	19	e20	---
TOTAL	738	812	406	508	590	1137	1804	2637	828	596	582	1029
MEAN	24	27	13	16	21	37	60	85	28	19	19	34
AC-FT	1460	1610	805	1010	1170	2260	3580	5230	1640	1180	1150	2040
MAX	48	43	18	20	40	55	85	139	92	30	50	384
MIN	14	16	10	12	16	16	38	43	19	17	12	15

CAL YR	2002	TOTAL	6872.7	MEAN	19	MAX	59	MIN	0.30	AC-FT	13630
WTR YR	2003	TOTAL	11667	MEAN	32	MAX	384	MIN	10	AC-FT	23140

MAX DISCH: 1330 CFS AT 05:30 ON Sep. 10, 2003 GH 4.54 FT. SHIFT -0.23 FT.
MAX GH: 4.54 FT. AT 05:30 ON Sep. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

09344000 NAVAJO RIVER AT BANDED PEAK RANCH, NEAR CHROMO, CO

LOCATION.--Lat 37°05'07", long 106°41'20", in SE¼NW¼ sec. 24, T.33 N., R.2 E., NMPM, Archuleta County, Hydrologic Unit 14080101, on right bank at downstream side of private bridge on Banded Peak Ranch, 0.5 mi downstream from Cutthroat Creek, 2.8 mi downstream from East Fork of the Navajo River, and 11.2 mi northeast of Chromo, Co.

DRAINAGE AREA.--69.8 mi².

GAGE.--Graphic water stage-recorder and a Sutron DCP in a 48-inch wood shelter and well. Also equipped with an air temperature sensor. The DCP record is the primary record. Datum of gage is 7,939.3 ft above National Geodetic Vertical Datum of 1929 (river-profile survey). Also equipped with an air temperature sensor.

REMARKS.--Record is complete. It is reliable except for the following periods: Stage-discharge relationship affected by ice: Nov. 12, 16, 18-19, 26 and 28; Dec. 2, 6-7, 9-14, 17-22 and 25-31, 2002; Jan. 2-5, 7-9, 13-23, 25-26 and 28-31; Feb. 4-12, 20, 22-24 and 28; Mar. 2-3, 5-11 and 29-30, 2003. DCP and recorder malfunctioned: Apr. 21-23 and 26, 2003. Record fair except for the winter period which is poor. Station maintained and records developed by Scott D. Brinton.

RATING TABLE.--NAVBANCO23 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	25	27	23	25	24	53	168	446	75	57	38
2	36	25	e25	e21	26	e24	52	161	439	67	54	34
3	37	24	27	e22	25	e24	44	157	440	60	51	31
4	36	25	26	e22	e24	24	42	148	410	59	45	29
5	35	22	25	e22	e24	e24	41	123	370	56	40	38
6	32	22	e24	23	e24	e22	39	109	312	55	39	53
7	30	23	e23	e22	e23	e23	38	104	282	52	40	47
8	27	25	24	e22	e24	e24	39	101	272	50	40	45
9	26	36	e23	e22	e24	e24	49	95	273	47	40	133
10	27	32	e23	23	e24	e25	70	97	274	43	43	344
11	27	26	e22	24	e24	e26	89	99	259	41	45	153
12	26	e25	e21	24	e26	30	92	124	240	40	43	125
13	26	24	e22	e24	27	35	100	140	217	39	41	101
14	26	25	e22	e24	30	39	122	149	203	38	39	85
15	25	25	22	e24	28	39	129	202	189	37	36	75
16	24	e24	22	e23	26	39	107	200	187	36	33	66
17	24	24	e21	e23	25	36	109	251	169	35	32	61
18	23	e24	e21	e23	26	33	103	273	174	34	32	57
19	23	e23	e20	e24	24	31	86	253	176	35	31	52
20	23	25	e21	e24	e24	30	96	258	180	38	29	48
21	23	26	e21	e24	24	30	e100	265	152	39	29	47
22	23	28	e21	e24	e24	31	e120	323	138	36	31	45
23	24	29	22	e24	e24	37	e110	357	127	35	69	44
24	25	28	22	25	e24	41	96	369	115	34	57	44
25	24	28	e21	e24	24	42	112	385	104	35	41	42
26	24	e25	e20	e24	24	44	e150	370	98	43	37	39
27	25	26	e21	25	24	42	180	401	92	84	39	38
28	24	e25	e21	e24	e24	37	189	446	87	112	59	36
29	25	25	e22	e24	---	e32	180	481	82	102	56	36
30	24	25	e22	e25	---	e34	181	447	78	75	48	35
31	25	---	e22	e25	---	40	---	494	---	61	43	---
TOTAL	829	769	696	727	695	986	2918	7550	6585	1593	1319	2021
MEAN	27	26	23	24	25	32	97	244	220	51	43	67
AC-FT	1640	1530	1380	1440	1380	1960	5790	14980	13060	3160	2620	4010
MAX	37	36	27	25	30	44	189	494	446	112	69	344
MIN	23	22	20	21	23	22	38	95	78	34	29	29

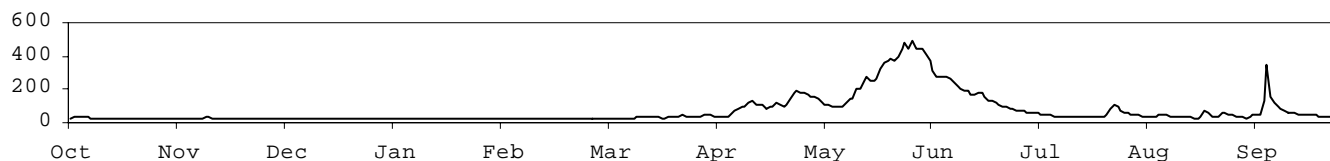
CAL YR	2002	TOTAL	12160	MEAN	33.3	MAX	77	MIN	12	AC-FT	24120
WTR YR	2003	TOTAL	26688	MEAN	73.1	MAX	494	MIN	20	AC-FT	52940

MAX DISCH: 567 CFS AT 01:45 ON Sep. 10, 2003 GH 3.44 FT. SHIFT -0.03 FT.

MAX GH: 3.44 FT. AT 01:45 ON Sep. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

e-Estimated



SAN JUAN RIVER BASIN

OSO DIVERSION NEAR CHROMO, CO

LOCATION.--Lat 37°01'49", long 106°44'14", in NE¼NE¼ sec. 9, T.32 N., R.2 E., NMPM, Archuleta County.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder and a Sutron 8200 DCP on separate floats in a concrete shelter and well at a 15 foot Parshall flume.

REMARKS.--Records good. Record is complete. Station maintained by the U.S.B.R. and record developed by Scott D. Brinton.

RATING TABLE.--OSODIVCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

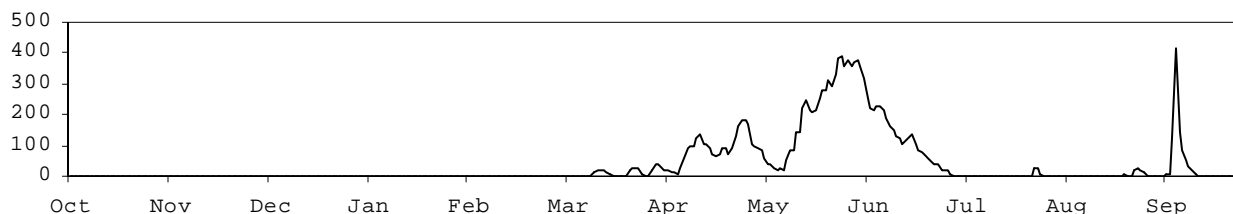
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	37	102	360	18	.00	.03
2	.00	.00	.00	.00	.00	.00	41	95	367	8.6	.00	.00
3	.00	.00	.00	.00	.00	.00	25	92	379	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	17	85	355	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	17	56	318	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	16	38	255	.00	.00	.21
7	.00	.00	.00	.00	.00	.00	10	36	224	.00	.00	5.7
8	.00	.00	.00	.00	.00	.00	5.7	29	213	.00	.00	3.3
9	.00	.00	.00	.00	.00	.00	24	21	226	.00	.98	123
10	.00	.00	.00	.00	.00	.00	58	24	228	.00	.00	416
11	.00	.00	.00	.00	.00	.08	93	22	212	.00	.00	144
12	.00	.00	.00	.00	.00	.93	96	53	191	.00	.00	82
13	.00	.00	.00	.00	.00	11	99	82	165	.00	.00	50
14	.00	.00	.00	.00	.00	18	126	84	147	.00	.00	30
15	.00	.00	.00	.00	.00	19	138	142	131	.00	.00	18
16	.00	.00	.00	.00	.00	20	101	145	122	.00	.00	8.3
17	.00	.00	.00	.00	.00	12	105	221	107	.00	.00	2.7
18	.00	.00	.00	.00	.00	5.6	89	245	117	.00	.00	.00
19	.00	.00	.00	.00	.00	.52	70	217	128	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	62	209	139	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	73	216	102	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	91	255	87	.00	.05	.00
23	.00	.00	.00	.00	.00	.90	89	280	77	.00	.78	.00
24	.00	.00	.00	.00	.00	18	74	279	67	.00	.77	.00
25	.00	.00	.00	.00	.00	29	89	309	56	.00	5.4	.00
26	.00	.00	.00	.00	.00	28	129	291	46	.00	.00	.00
27	.00	.00	.00	.00	.00	23	163	331	41	.04	.00	.00
28	.00	.00	.00	.00	.00	9.6	184	383	36	23	17	.00
29	.00	.00	.00	.00	---	.73	180	392	22	24	25	.00
30	.00	.00	.00	.00	---	.41	167	358	20	8.8	18	.00
31	.00	---	.00	.00	---	18	---	377	---	.00	15	---
TOTAL	.00	.00	.00	.00	.00	214.77	2468.7	5469	4938	82.44	82.98	883.24
MEAN	.00	.00	.00	.00	.00	6.93	82.3	176	165	2.66	2.68	29.4
AC-FT	.00	.00	.00	.00	.00	426	4900	10850	9790	164	165	1750
MAX	.00	.00	.00	.00	.00	29	184	392	379	24	25	416
MIN	.00	.00	.00	.00	.00	.00	5.7	21	20	.00	.00	.00

CAL YR 2002 TOTAL 879.11 MEAN 2.41 MAX 41 MIN .00 AC-FT 1740
WTR YR 2003 TOTAL 14139.13 MEAN 38.7 MAX 416 MIN .00 AC-FT 28040

MAX DISCH: 610 CFS AT 01:30 ON Sep. 10, 2003 GH 4.36 FT. SHIFT .00 FT.
MAX GH: 4.36 FT. AT 01:30 ON Sep. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



SAN JUAN RIVER BASIN

09344400 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°01'49", long 106°44'14", in NE¼NW¼ sec. 9, T.32 N., R.2 E., NMPM, Archuleta County, Hydrologic Unit 14080101, on left bank 600 ft downstream from Oso Diversion Dam, 5.8 mi east of Chromo, and 6.1 mi upstream from Little Navajo River.

DRAINAGE AREA AND PERIOD OF RECORD.--100.5 mi². March 1971 to current year.

GAGE.--Graphic water-stage recorder with a Sutron 8200 DCP on separate floats in a concrete shelter and well. Control is an 8-ft. Parshall flume set in a flat wide concrete structure that acts as a weir at high flows. The Parshall flume is equipped with a supplemental outside gage. The DCP is the primary record. Datum of gage is 7,665.30 ft above mean sea level.

REMARKS.--Record from the DCP is complete, any data missing from the initial satellite transmissions were filled in from the DCP's logger files. The record is reliable except for the following periods: Stage-discharge relationship affected by ice Dec. 20-22, 2002; Jan. 2, 13-21; Feb. 9-12 and 23; March 6, 2003. Records good, except for estimated flows, which are poor, and periods of flow above 140 cfs, which are fair. Station maintained by the U.S.B.R. and records developed by Scott D. Brinton.

RATING TABLE.--NAVOSOCO04 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

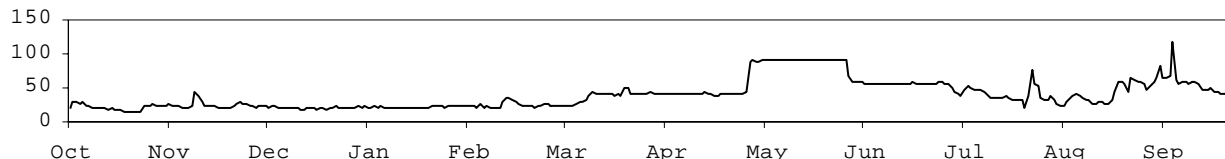
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	26	25	23	24	25	42	89	68	57	33	57
2	28	25	22	e22	24	24	41	90	60	56	31	48
3	28	23	24	22	24	24	41	89	60	49	37	53
4	27	25	23	23	23	25	42	89	60	43	31	58
5	28	22	22	22	22	25	42	90	58	41	26	65
6	25	21	21	23	26	e24	42	90	57	38	24	82
7	23	22	21	21	22	25	41	91	57	46	25	65
8	21	24	22	21	23	26	41	91	56	53	29	64
9	20	43	20	22	e22	28	41	91	57	50	34	69
10	20	39	20	22	e22	29	41	91	57	47	38	119
11	20	28	20	21	e22	31	40	91	56	47	42	61
12	20	23	19	21	e22	37	41	90	56	46	37	57
13	19	24	19	e20	28	43	41	90	56	45	36	58
14	20	24	20	e22	34	41	42	91	56	42	33	58
15	19	25	20	e22	34	41	42	91	56	36	31	57
16	19	22	20	e20	31	41	42	90	56	35	27	58
17	18	22	19	e20	28	41	43	90	56	36	27	58
18	16	22	21	e20	27	41	42	91	57	34	28	57
19	14	21	20	e22	25	40	40	90	57	35	28	48
20	15	22	e18	e22	23	39	38	90	57	38	26	47
21	16	24	e22	e22	24	40	39	90	58	35	27	47
22	16	26	e20	e20	24	23	38	41	57	33	32	49
23	16	28	23	23	e22	51	40	90	57	33	44	45
24	23	27	22	24	24	50	40	91	57	33	60	44
25	23	26	22	23	25	40	40	90	56	32	60	42
26	24	24	20	22	26	41	41	90	57	22	55	41
27	26	24	21	23	26	41	40	90	57	38	43	40
28	24	22	21	23	25	41	40	91	57	75	66	39
29	25	23	22	23	---	40	40	90	59	55	61	39
30	24	23	23	23	---	42	45	90	58	53	60	38
31	25	---	21	24	---	43	---	90	---	36	60	---
TOTAL	663	750	653	685	701	1117	1231	2798	1726	1319	1191	1663
MEAN	21	25	21	22	25	36	41	90	58	43	38	55
AC-FT	1320	1490	1300	1360	1390	2220	2440	5550	3420	2620	2360	3300
MAX	28	43	25	24	34	51	45	91	68	75	66	119
MIN	14	21	18	20	22	24	38	89	56	22	24	38
CAL YR 2002	TOTAL	9604.0	MEAN	26.3	MAX	80	MIN	6.6	AC-FT	19050		
WTR YR 2003	TOTAL	14497	MEAN	39.7	MAX	119	MIN	14	AC-FT	28750		

MAX DISCH: 430 CFS AT 01:15 ON Sep. 10, 2003 GH 3.66 FT. SHIFT 0.02 FT.

MAX GH: 3.66 FT. AT 01:15 ON Sep. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

e-Estimated



LITTLE OSO DIVERSION NEAR CHROMO, CO

LOCATION.--Lat 37°04'32", long 106°48'38", in SW¼SE¼ sec. 23, T.33 N., R.1 E., NMPM, Archuleta County.

DRAINAGE AREA.--N/A. March 1971 to current year.

GAGE.--Graphic water-stage recorder with Sutron 8200 DCP on separate floats in a concrete shelter at a 6 foot Parshall flume. The DCP is the primary record.

REMARKS.--Records good. Record complete. Station maintained by the U.S.B.R. and record developed by Scott D. Brinton.

RATING TABLE.--LOSODVCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

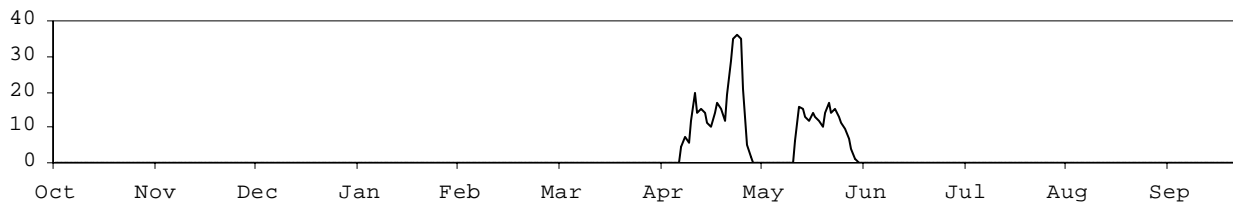
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	4.8	6.7	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	1.5	3.7	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	1.2	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	4.6	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	7.4	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	5.9	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	12	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	20	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	14	6.2	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	15	16	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	14	15	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	11	13	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	10	12	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	14	14	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	17	13	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	15	12	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	12	10	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	19	14	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	29	17	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	35	14	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	36	15	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	35	13	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	21	11	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	--	9.5	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	346.9	211	11.6	.00	.00	.00
MEAN	.00	.00	.00	.00	.00	.00	11.6	6.81	.39	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	688	419	23	.00	.00	.00
MAX	.00	.00	.00	.00	.00	.00	36	17	6.7	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

CAL YR	2002	TOTAL	17.91	MEAN	0.049	MAX	3.1	MIN	.00	AC-FT	36
WTR YR	2003	TOTAL	569.5	MEAN	1.56	MAX	36	MIN	.00	AC-FT	1130

MAX DISCH: 49.8 CFS AT 11:00 ON Apr. 28, 2003 GH 1.58 FT. SHIFT .00FT.
MAX GH: 1.58 FT. AT 11:00 ON Apr. 28, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



SAN JUAN RIVER BASIN

09345200 LITTLE NAVAJO RIVER BELOW LITTLE OSO DIVERSION DAM NEAR CHROMO, CO

LOCATION.--Lat 37°04'32", long 106°48'38", in SW¼SE¼ sec. 23, T.33 N., R.1 E., NMPM, Archuleta County, on right bank downstream from Little Oso Diversion Dam.

DRAINAGE AREA AND PERIOD OF RECORD.--N/A, December 5, 1996 to current year.

GAGE.--Graphic water stage-recorder and a Sutron 8200 DCP on separate floats in a wooden shelter and concrete well. Supplemental outside staff gage. Control is a 5-foot Parshall flume set in concrete. The DCP is the primary record.

REMARKS.--Record is complete. It is reliable except for the following periods: Recorder float hung up June 13 and Sep. 11-12, 2003. Records fair, except for estimated daily flows, which are poor. Station maintained by Sherry Schutz and Val Valentine and records developed by Scott D. Brinton.

RATING TABLE.--LITOSOCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

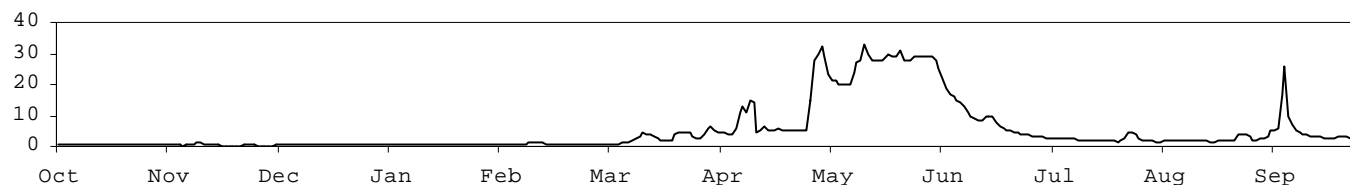
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	.53	.36	.88	.89	.70	5.8	28	29	3.5	2.0	2.2
2	.88	.53	.37	.86	.88	.69	6.7	30	29	3.3	2.0	2.0
3	.76	.47	.36	.88	.88	.69	5.2	32	29	3.2	2.0	2.4
4	.60	.51	.36	.88	.84	.74	4.5	29	28	3.1	1.7	2.5
5	.60	.21	.36	.88	.82	.85	4.6	23	25	2.9	1.6	3.4
6	.60	.46	.39	.88	.78	.90	4.3	21	22	2.8	1.6	5.4
7	.60	.57	.37	.88	.74	.83	3.8	21	19	2.7	1.9	5.0
8	.60	.60	.36	.88	.83	1.0	3.8	20	17	2.5	2.1	5.6
9	.60	1.1	.35	.88	.92	1.2	6.1	20	16	2.6	1.9	17
10	.60	1.2	.37	.88	.97	1.4	11	20	15	2.5	2.0	26
11	.60	.79	.37	.88	1.1	1.7	13	20	14	2.4	2.1	e10
12	.54	.43	.36	.88	1.1	2.5	11	24	13	2.4	2.1	e7.0
13	.52	.63	.36	.88	1.2	3.5	15	27	e11	2.3	1.8	5.3
14	.52	.46	.36	.78	1.0	4.3	14	28	10	2.1	1.7	4.6
15	.52	.39	.42	.78	.89	3.9	4.5	33	9.3	2.1	1.7	4.1
16	.52	.28	.50	.78	.80	3.6	4.9	30	8.6	2.1	1.7	3.7
17	.52	.32	.54	.70	.82	3.2	6.6	28	8.2	2.0	1.8	3.4
18	.52	.24	.66	.60	.82	2.5	5.1	28	9.8	1.8	1.8	3.2
19	.59	.22	.67	.60	.79	2.0	5.0	28	9.9	1.8	1.7	3.1
20	.52	.23	.60	.62	.79	1.8	5.1	28	9.7	1.8	1.6	3.0
21	.55	.30	.63	.69	.80	1.9	5.6	29	7.5	1.9	1.6	2.9
22	.54	.53	.61	.70	.75	2.2	5.1	30	6.6	1.8	1.9	2.8
23	.66	.70	.60	.72	.71	3.8	5.0	29	5.9	1.7	2.0	2.8
24	.79	.40	.61	.78	.69	4.5	5.2	29	5.4	1.7	2.2	2.8
25	.76	.33	.78	.78	.73	4.8	5.2	31	4.9	1.6	2.2	3.1
26	.73	.28	.73	.77	.76	4.8	5.2	28	4.7	2.2	2.0	3.5
27	.91	.24	.69	.78	.75	4.2	5.1	28	4.4	2.4	2.1	3.0
28	.64	.15	.67	.80	.76	3.2	5.3	28	4.1	4.6	3.7	2.9
29	.57	.29	.79	.83	---	2.6	5.0	29	3.8	4.2	3.8	2.8
30	.51	.25	.88	.80	---	2.6	15	29	3.6	3.7	4.1	2.9
31	.54	---	.88	.80	---	3.6	---	29	---	2.4	3.2	---
TOTAL	19.29	13.64	16.36	24.73	23.81	76.20	201.7	837	383.4	78.1	65.6	148.4
MEAN	.62	.45	.53	.80	.85	2.46	6.7	27	12.8	2.5	2.1	5.0
AC-FT	38	27	32	49	47	151	400	1660	760	155	130	294
MAX	.91	1.2	.88	.88	1.2	4.8	15	33	29	4.6	4.1	26
MIN	.51	.15	.35	.60	.69	.69	3.8	20	3.6	1.6	1.6	2

CAL YR	2002	TOTAL	583.15	MEAN	1.60	MAX	8.8	MIN	.15	AC-FT	1160
WTR YR	2003	TOTAL	1888.23	MEAN	5.17	MAX	33	MIN	.15	AC-FT	3750

MAX DISCH: 63.5 CFS AT 23:30 ON Sep. 9, 2003 GH 2.07 FT. SHIFT 0.00 FT.
MAX GH: 2.07 FT. AT 23:30 ON Sep. 9, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

09362750 FLORIDA RIVER ABOVE LEMON RESERVOIR NEAR DURANGO, CO

LOCATION.--Lat 37°25'36", long 107°40'28", in SW¼NE¼ sec. 31, T.37 N., R.7 W., NMPM, La Plata County.

DRAINAGE AREA.--50.9 mi².

GAGE.--Graphic water stage-recorder and a Sutron 8200 DCP with a shaft encoder on a separate float in a 42" corrugated metal shelter and well. The DCP record is the primary record. Also equipped with a Sutron air temperature sensor. Datum of gauge is 8,160 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Record is complete and reliable except for the following periods: Stage-discharge relationship affected by ice Dec. 10-11, 13, 25-28, 31, 2002; Jan. 2-3, 7-8, 12-14,16-23, 26-29, 2003. Inlets frozen Jan.30 to March 31, 2003. There is some gage height variation at this time but it is flow into and out of the well through the alluvium the gage is built on. Diversions for irrigation of up to 80 acres upstream of gage. Record good, except for estimated daily discharges, which are poor. Station maintained and records developed by Scott D. Brinton.

RATING TABLE.--FLOALECO06 USED FROM 01-OCT-2002 TO 30-SEP-2003

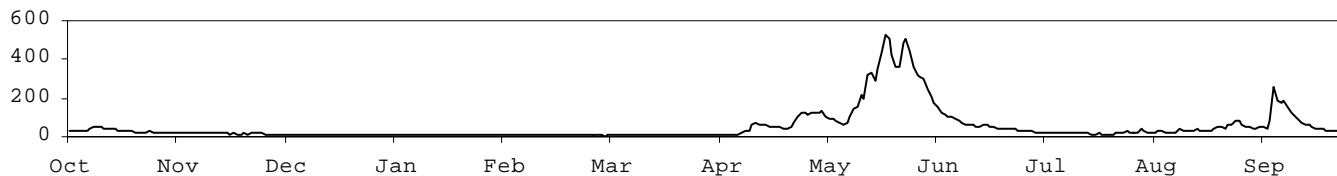
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	21	15	9.3	e8.0	e7.0	12	123	315	31	22	65
2	28	21	13	e9.0	e9.0	e6.0	13	124	296	29	22	54
3	31	18	14	e9.0	e7.0	e5.0	12	128	247	27	37	49
4	31	20	13	9.0	e7.0	e7.0	12	133	208	25	26	45
5	35	17	13	8.7	e7.0	e7.0	12	108	177	24	22	45
6	35	18	13	8.7	e7.0	e7.0	11	95	153	23	19	48
7	42	18	12	e8.5	e6.0	e7.0	11	88	128	21	18	51
8	49	19	12	e8.5	e7.0	e8.0	11	81	115	20	33	43
9	49	19	12	9.3	e7.0	e8.0	12	73	108	19	26	83
10	48	19	e11	9.3	e7.0	e8.0	15	67	101	18	24	254
11	46	19	e11	9.4	e7.0	e9.0	21	68	92	17	23	184
12	43	16	11	e9.0	e8.0	e10	27	102	82	17	22	177
13	39	19	e10	e9.0	e9.0	e10	33	147	73	17	21	190
14	37	17	11	e9.0	e9.0	e10	58	160	64	16	41	155
15	34	16	11	9.5	e8.0	e11	68	215	60	16	32	125
16	31	15	10	e9.0	e8.0	e12	59	200	58	17	34	104
17	29	17	11	e9.0	e8.0	e12	60	316	52	17	35	89
18	28	15	10	e8.5	e8.0	e12	62	330	51	16	34	75
19	26	15	9.6	e9.0	e7.0	e12	56	293	59	16	37	65
20	25	16	12	e9.0	e7.0	e11	50	347	58	15	31	57
21	23	15	11	e9.0	e7.0	e11	48	432	50	15	28	50
22	22	16	10	e9.0	e7.0	e11	47	527	47	16	27	46
23	25	16	10	e9.0	e7.0	e12	43	503	46	15	26	42
24	26	16	10	9.0	e7.0	e12	41	426	45	14	37	39
25	22	16	e9.5	8.9	e8.0	e12	49	364	44	13	54	36
26	23	15	e9.0	e8.5	e8.0	e12	72	364	42	14	47	33
27	25	15	e9.5	e8.5	e8.0	e12	104	488	40	17	43	31
28	22	15	e9.5	e8.0	e7.0	e11	125	507	37	17	58	30
29	23	15	9.8	e8.0	---	e10	120	442	34	24	58	28
30	21	14	9.7	e8.0	---	e11	116	359	32	27	81	26
31	22	---	e9.5	e8.0	---	e11	---	321	---	22	85	---
TOTAL	966	508	342.1	273.6	210.0	304.0	1380	7931	2914	595	1103	2319
MEAN	31	17	11	8.8	7.5	9.8	46	256	97	19	36	77
AC-FT	1920	1010	679	543	417	603	2740	15730	5780	1180	2190	4600
MAX	49	21	15	9.5	9.0	12	125	527	315	31	85	254
MIN	21	14	9.0	8.0	6.0	5.0	11	67	32	13	18	26

CAL YR 2002 TOTAL 7351.3 MEAN 20.1 MAX 102 MIN 3.7 AC-FT 14580
WTR YR 2003 TOTAL 18845.7 MEAN 51.6 MAX 527 MIN 5.0 AC-FT 37380

MAX DISCH: 702 CFS AT 20:45 ON May. 22, 2003 GH 3.62 FT. SHIFT 0.00 FT.
MAX GH: 3.62 FT. AT 20:45 ON May. 22, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

FLORIDA RIVER BELOW LEMON RESERVOIR NEAR DURANGO, CO

LOCATION.--Lat 37°22'50", long 107°39'43", in NE¼NW¼ sec. 20, T.36 N., R.7 W., NMPM, La Plata County.

DRAINAGE AREA.--69.1 mi².

GAGE.--Water-stage recorder with a Sutron 8200 DCP with a shaft encoder on a separate float in a 42" corrugated metal shelter and well and a concrete control. The DCP record is the primary record. Datum of gauge is 7,960 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Record complete. Diversions for irrigation of up to 80 acres upstream of gage. Flow regulated by Lemon Reservoir, capacity 40,100 acre-feet. Station maintained and records developed by Scott D. Brinton.

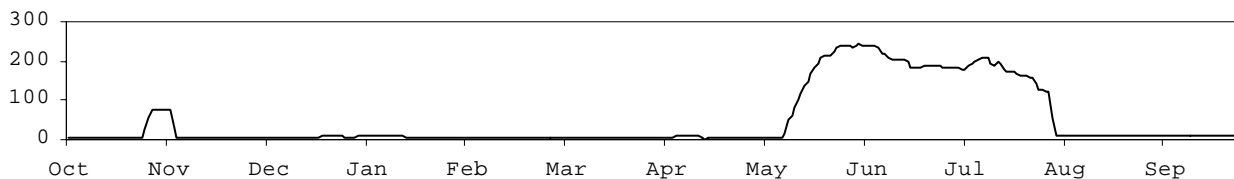
RATING TABLE.--FLOBLECO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	74	6.7	7.9	7.0	6.6	7.0	7.0	239	184	124	8.8
2	4.8	74	6.6	7.7	7.0	6.6	7.0	7.0	233	184	122	8.8
3	4.8	30	6.8	7.7	7.0	6.6	7.2	7.2	241	183	54	8.8
4	4.8	5.9	6.7	7.8	7.0	6.6	6.9	7.4	242	182	12	8.8
5	4.8	5.9	6.8	7.9	7.1	6.6	7.4	7.4	241	181	8.6	9.0
6	4.8	5.9	6.8	7.8	7.0	6.6	7.5	7.4	241	180	8.5	9.2
7	4.8	5.9	6.8	7.8	7.0	6.6	7.5	7.0	241	179	8.5	9.3
8	4.8	5.9	6.9	7.7	7.0	6.6	7.8	7.0	241	186	8.6	9.3
9	4.8	6.1	7.1	7.8	7.0	6.6	7.9	7.0	241	195	8.8	9.5
10	4.8	6.2	7.2	7.9	7.0	6.6	7.8	7.0	235	199	8.8	9.6
11	4.8	6.3	7.3	7.9	6.8	6.6	7.9	7.0	220	203	8.8	9.6
12	4.8	6.2	7.3	7.8	6.9	6.7	7.9	13	219	209	8.8	9.7
13	4.8	6.3	7.3	7.7	7.0	6.7	7.9	50	211	206	8.8	9.7
14	4.8	6.3	7.2	7.2	7.0	6.6	7.9	62	204	206	8.8	9.7
15	4.8	6.3	7.4	7.0	7.0	6.6	7.9	82	203	192	8.8	9.7
16	5.8	6.3	7.4	7.0	7.0	6.6	4.7	101	202	188	8.8	9.7
17	7.4	6.3	7.4	7.0	7.0	6.3	1.7	115	202	200	8.8	9.7
18	6.6	6.3	7.6	7.0	7.0	6.6	7.1	135	201	191	8.8	9.7
19	6.6	6.3	7.8	7.0	7.0	6.6	7.4	149	196	180	8.8	9.7
20	6.6	6.3	7.7	7.0	7.0	6.6	7.4	166	185	175	8.8	9.7
21	6.6	6.3	7.9	7.0	6.8	6.6	7.4	182	182	175	8.9	9.7
22	6.6	6.3	7.8	7.0	6.6	6.8	7.5	195	182	173	8.8	9.7
23	6.6	6.3	7.9	7.0	6.7	6.9	7.2	206	182	169	8.8	9.6
24	6.6	6.3	7.9	7.0	6.6	7.0	7.2	216	189	164	8.8	9.3
25	25	6.3	7.8	7.0	6.6	7.0	7.4	216	189	163	8.8	9.3
26	57	6.3	7.5	7.0	6.6	7.0	7.4	216	189	161	8.8	9.3
27	75	6.3	7.4	7.0	6.6	7.0	7.4	223	187	159	8.4	9.3
28	76	6.3	7.4	7.0	6.6	7.0	7.4	235	187	157	8.4	9.5
29	76	6.3	7.6	7.0	---	7.0	7.4	237	187	141	8.3	9.5
30	76	6.4	7.8	7.0	---	7.0	7.1	238	184	128	8.4	9.5
31	74	---	7.9	7.0	---	7.0	---	238	---	125	8.8	---
TOTAL	590.3	345.8	227.7	227.6	192.9	208.2	215.2	3353.4	6296	5518	547	282.7
MEAN	19.0	11.5	7.4	7.3	6.9	6.7	7.2	108	210	178	17.6	9.4
AC-FT	1170	686	452	451	383	413	427	6650	12490	10940	1080	561
MAX	76	74	7.9	7.9	7.1	7.0	7.9	238	242	209	124	9.7
MIN	4.7	5.9	6.6	7.0	6.6	6.3	1.7	7.0	182	125	8.3	8.8
CAL YR 2002	TOTAL	11165.05	MEAN	30.6	MAX	226	MIN	.65	AC-FT	22150		
WTR YR 2003	TOTAL	18004.8	MEAN	49.3	MAX	242	MIN	1.7	AC-FT	35710		

MAX DISCH: 243 CFS AT 21:15 ON Jun. 2, 2003 GH 3.27 FT. SHIFT -0.03 FT.
MAX GH: 3.27 FT. AT 21:15 ON Jun. 2, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



SAN JUAN RIVER BASIN

09357500 ANIMAS RIVER AT HOWARDSVILLE, CO

LOCATION.--Lat 37°49'59", long 107°35'56", in SE¼SE¼ sec. 2, T.41 N., R.7 W., NMPM, San Juan County.

DRAINAGE AREA.--55.9 mi².

GAGE.--Graphic water stage-recorder and a Sutron 8004 DCP with a shaft encoder on a separate float in a 36"x 36" wooden shelter well. The DCP record is the primary record. The Sutron 8004 DCP was replaced by a Sutron 8200 DCP on Oct. 31, 2002. Datum of gage is 9,616.98 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 18, 1939, at datum 1.00 ft. higher.

REMARKS.--Record is reliable except for the following periods: Stage-discharge relationship affected by ice Nov. 10, 12, 16, 19, 26-28 and 30; Dec. 2, 4-14, 16-17 and 19-31, 2002; Jan. 1-3, 7-9, 12-14, 16-23, 26 and 29-30; Feb. 4-12, 15-16 and 20-24; March 1-3, 5-10 and 27-30; April 3 and 8, 2003. The record is complete. Record good, except for the winter period of ice effect, which is poor. Station maintained and records developed by Scott D. Brinton.

RATING TABLE.--ANIHOWCO08 USED FROM 01-OCT-2002 TO 30-SEP-2003

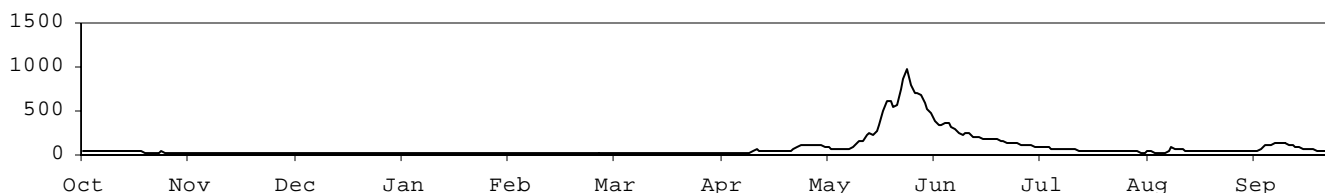
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	30	22	e15	13	e13	16	106	702	125	43	45
2	50	31	e22	e15	13	e13	16	104	675	124	42	42
3	55	24	22	e14	13	e13	e15	104	591	119	39	41
4	50	25	e22	14	e13	13	15	107	526	110	35	39
5	54	23	e21	14	e13	e13	15	94	469	101	34	48
6	52	22	e21	15	e14	e13	15	83	383	91	33	52
7	53	22	e21	e14	e14	e13	15	78	343	86	35	56
8	53	23	e20	e14	e14	e13	e15	75	351	84	37	52
9	53	23	e20	e14	e14	e13	15	68	373	80	33	74
10	51	e21	e20	14	e14	e13	19	62	361	75	34	107
11	51	24	e19	14	e14	13	23	60	324	71	33	104
12	49	e24	e19	e14	e15	14	27	73	285	68	33	120
13	46	26	e19	e14	15	15	30	99	253	64	54	141
14	44	26	e18	e14	15	16	49	124	237	60	100	138
15	41	26	18	14	e14	15	61	159	258	57	69	131
16	39	e26	e18	e14	e14	15	49	157	239	60	65	126
17	37	27	e18	e14	14	14	48	232	209	58	60	121
18	36	26	18	e13	14	14	46	256	194	55	56	109
19	34	e26	e18	e13	14	14	42	232	196	55	51	97
20	33	27	e18	e13	e13	14	43	273	190	51	45	88
21	32	27	e18	e13	e13	14	51	340	180	50	43	79
22	32	27	e18	e13	e13	14	51	491	192	50	41	72
23	34	26	e17	e13	e13	15	47	608	189	47	42	66
24	35	26	e17	13	e13	16	45	609	171	44	43	61
25	31	26	e17	13	13	16	55	542	152	44	40	56
26	29	e24	e17	e13	13	16	77	567	148	44	41	52
27	32	e24	e16	13	13	e15	97	758	145	44	42	48
28	30	e24	e16	13	13	e15	114	856	137	47	55	46
29	28	24	e16	e13	---	e15	116	966	132	48	50	43
30	26	e24	e16	e13	---	e15	112	787	133	50	54	41
31	28	---	e16	13	---	14	---	699	---	45	51	---
TOTAL	1265	754	578	423	381	439	1339	9769	8738	2107	1433	2295
MEAN	41	25	19	14	14	14	45	315	291	68	46	77
AC-FT	2510	1500	1150	839	756	871	2660	19380	17330	4180	2840	4550
MAX	55	31	22	15	15	16	116	966	702	125	100	141
MIN	26	21	16	13	13	13	15	60	132	44	33	39

CAL YR	2002	TOTAL	15640.3	MEAN	42.8	MAX	204	MIN	9.0	AC-FT	31020
WTR YR	2003	TOTAL	29521	MEAN	80.9	MAX	966	MIN	13	AC-FT	58550

MAX DISCH: 1200 CFS AT 18:15 ON May. 29, 2003 GH 3.50 FT. SHIFT -0.02 FT.
MAX GH: 3.50 FT. AT 18:15 ON May. 29, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

LA PLATA AND CHERRY CREEK DITCH NEAR HESPERUS, CO

LOCATION.--Lat 37°19'26", long 108°03'41", in SE¼NW¼ sec. 3, T.35 N., R.11 W., NMPM, La Plata County.

DRAINAGE AREA.--N/A

GAGE.--Sutron 8200 DCP in a wooden shelter and metal well at a 5 foot Parshall flume.

REMARKS.--Records good. Station maintained by Matthew A. Schmitt. Records developed by Scott D. Brinton.

RATING TABLE.--LPCDITCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

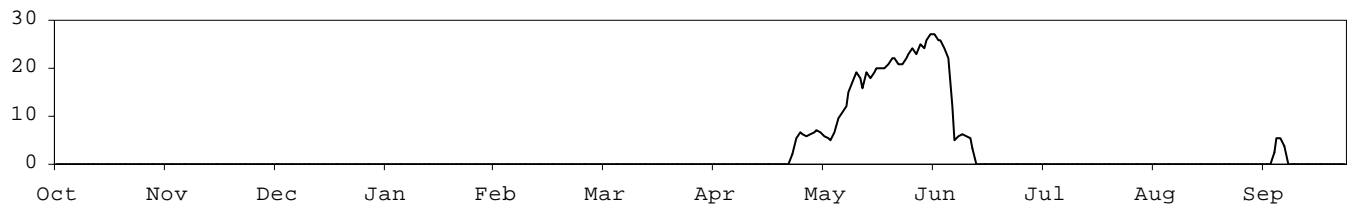
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	5.9	23	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	6.2	25	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	6.7	24	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	7.0	26	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	6.6	27	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	5.9	27	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	5.3	26	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	5.0	26	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	6.7	24	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	9.7	22	.00	.00	2.7
11	.00	.00	.00	.00	.00	.00	.00	11	12	.00	.00	5.5
12	.00	.00	.00	.00	.00	.00	.00	12	5.2	.00	.00	5.5
13	.00	.00	.00	.00	.00	.00	.00	15	5.8	.00	.00	3.9
14	.00	.00	.00	.00	.00	.00	.00	17	6.2	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	19	5.9	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	18	5.6	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	16	3.4	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	19	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	18	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	19	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	20	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	20	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	20	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	21	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	22	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	22	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	2.2	21	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	5.3	21	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	6.5	22	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.01	6.2	23	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	24	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.01	20.20	465.0	294.10	.00	.00	17.60
MEAN	.00	.00	.00	.00	.00	.00	.67	15	9.8	.00	.00	.59
AC-FT	.00	.00	.00	.00	.00	.02	40	922	583	.00	.00	35
MAX	.00	.00	.00	.00	.00	.01	6.5	24	27	.00	.00	5.5
MIN	.00	.00	.00	.00	.00	.00	.00	5.0	.00	.00	.00	.00

CAL YR 2002 TOTAL 124.07 MEAN 0.34 MAX 7.9 MIN .00 AC-FT 246
WTR YR 2003 TOTAL 796.91 MEAN 2.18 MAX 27 MIN .00 AC-FT 1580

MAX DISCH: 28.1 CFS AT 20:00 ON Jun. 4, 2003 GH 1.21 FT. SHIFT 0.03 FT.
MAX GH: 1.21 FT. AT 20:00 ON Jun. 4, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



SAN JUAN RIVER BASIN

PINE RIDGE DITCH NEAR HESPERUS, CO

LOCATION.--Lat 37°17'31", long 108°02'07", in SW¼NE¼ sec. 14, T.35 N., R.11 W., NMPM, La Plata County.

DRAINAGE AREA.--N/A

GAGE.--Graphic water-stage recorder and a Sutron 8200 DCP on separate floats in a metal shelter and concrete well at a 3 foot Parshall flume.

REMARKS.--Station maintained by Matthew A. Schmitt. Records developed by Scott D. Brinton.

RATING TABLE.--PINDITCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

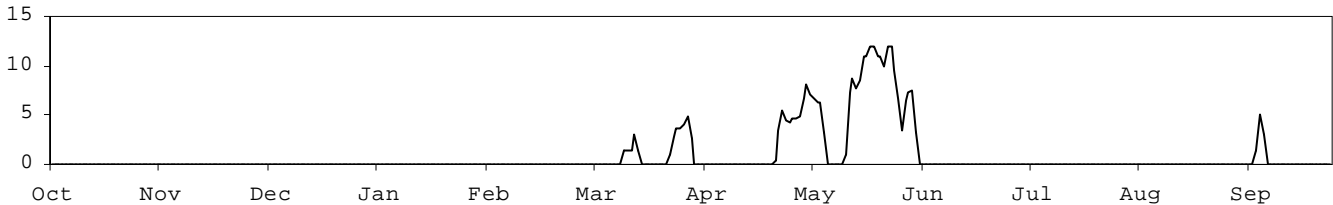
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.00	e.00	e.00	.00	2.7	4.7	6.5	.00	.00	.00
2	.00	.00	e.00	e.00	e.00	.00	.06	4.8	7.3	.00	.00	.00
3	.00	.00	e.00	e.00	e.00	.00	.00	6.6	7.5	.00	.00	.00
4	.00	.00	e.00	e.00	e.00	.00	.00	8.2	3.3	.00	.00	.00
5	.00	.00	e.00	e.00	e.00	.00	.00	7.1	.00	.00	.00	.00
6	.00	.00	e.00	e.00	e.00	.00	.00	6.6	.00	.00	.00	.00
7	.00	.00	e.00	e.00	e.00	.00	.00	6.3	.00	.00	.00	.00
8	.00	.00	e.00	e.00	e.00	.00	.00	6.2	.00	.00	.00	.00
9	.00	.00	e.00	e.00	e.00	.00	.00	3.2	.00	.00	.00	e1.5
10	.00	.00	e.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	e5.1
11	.00	.00	e.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	e3.0
12	.00	.00	e.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00
13	.00	.00	e.00	e.00	e.00	e1.5	.00	.02	.00	.00	.00	.00
14	.00	.00	e.00	e.00	e.00	e1.5	.00	.00	.00	.00	.00	.00
15	.00	.00	e.00	e.00	e.00	e1.5	.00	.92	.00	.00	.00	.00
16	.00	.00	e.00	e.00	e.00	e3.0	.00	7.3	.00	.00	.00	.00
17	.00	.00	e.00	e.00	e.00	e1.5	.00	8.8	.00	.00	.00	.00
18	.00	.00	e.00	e.00	e.00	e.00	.00	7.7	.00	.00	.00	.00
19	.00	.00	e.00	e.00	e.00	.00	.00	8.5	.00	.00	.00	.00
20	.00	.00	e.00	e.00	.00	.00	.00	11	.00	.00	.00	.00
21	.00	.00	e.00	e.00	.00	.00	.00	11	.00	.00	.00	.00
22	.00	.00	e.00	e.00	.00	e.00	.00	12	.00	.00	.00	.00
23	.00	.00	e.00	e.00	.00	e.00	.00	12	.00	.00	.00	.00
24	.00	.00	e.00	e.00	.00	.00	.00	11	.00	.00	.00	.00
25	.00	e.00	e.00	e.00	.00	.00	.44	11	.00	.00	.00	.00
26	.00	e.00	e.00	e.00	.00	1.0	3.4	10	.00	.00	.00	.00
27	.00	e.00	e.00	e.00	.00	2.8	5.5	12	.00	.00	.00	.00
28	.00	e.00	e.00	e.00	.00	e3.6	4.5	12	.00	.00	.00	.00
29	.00	e.00	e.00	e.00	---	e3.6	4.3	9.5	.00	.00	.00	.00
30	.00	e.00	e.00	e.00	---	e4.0	4.7	6.6	.00	.00	.00	.00
31	.00	---	e.00	e.00	---	4.8	---	3.4	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	28.80	25.60	208.44	24.60	.00	.00	9.60
MEAN	.00	.00	.00	.00	.00	.93	.85	6.72	.82	.00	.00	.32
AC-FT	.00	.00	.00	.00	.00	57	51	413	49	.00	.00	19
MAX	.00	.00	.00	.00	.00	4.8	5.5	12	7.5	.00	.00	5.1
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

CAL YR 2002 TOTAL 0.00 MEAN 0.00 MAX 0.00 MIN 0.00 AC-FT 0.00
WTR YR 2003 TOTAL 297.04 MEAN .81 MAX 12 MIN 0.00 AC-FT 589

MAX DISCH: Undetermined
MAX GH: 1.35 FT. AT 22:30 ON Sep. 9, 2003 (Submerged Flow)

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

09365500 LA PLATA RIVER AT HESPERUS, CO

LOCATION.--Lat 37°17'23", long 108°02'24", in NE¼SW¼ sec. 14, T.35 N., R.11 W., NMPM La Plata County, Hydrologic Unit 14080105, on right bank at Hesperus 700 ft downstream from U.S. Highway 160.

DRAINAGE AREA AND PERIOD OF RECORD.--37 mi², approximately. Periodic data June 1904 to Nov. 1910. Continuous from June 1917 to current year, with some periods of monthly data only.

GAGE.--Graphic water stage-recorder and a Sutron 8200 DCP with a shaft encoder on a separate float, and an air temperature sensor, in a 64"x 64" concrete block shelter and a 42" concrete well. The DCP record is the primary record. The Sutron 8200 DCP and shaft encoder were replaced on June 18, 2003 by a Sutron Satlink DCP and shaft encoder. Datum of gage is 8,104.71 ft above National Geodetic Vertical Datum of 1929. DCP is the primary record.

REMARKS.--Record from the DCP is complete, any data missing from the initial satellite transmissions were filled in from the DCP's logger files. It is reliable except for the following periods: Dec. 20, 2002 when both floats froze in ice in the well. Stage-discharge relationship affected by ice Dec. 25-29 and 31, 2002; Jan. 2-4, 7-8, 18 and 26; Feb. 4-12 and 25-26; Mar. 1, 2003. Record good except for estimated flows, which are poor. Station maintained and record developed by Scott D. Brinton.

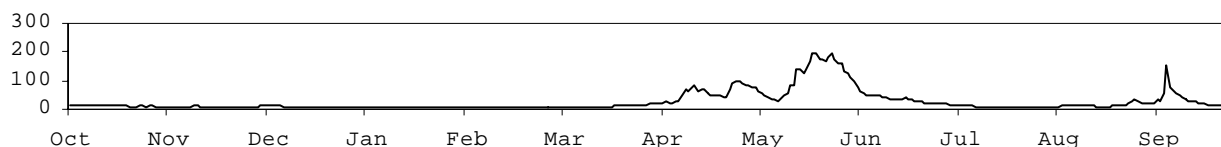
RATING TABLE.--LAPHESCO35 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.5	12	5.7	6.4	e5.5	21	84	135	20	8.0	25
2	12	8.2	12	e5.0	6.7	5.5	24	82	129	19	8.5	21
3	14	8.2	12	e5.0	7.1	5.4	22	76	111	18	9.0	19
4	13	7.8	12	e5.0	e7.0	5.4	23	80	95	17	9.6	19
5	13	7.4	11	5.0	e6.5	5.4	24	66	80	16	9.8	19
6	13	7.4	11	5.0	e6.0	5.3	25	53	65	15	9.8	20
7	14	7.4	10	e5.0	e6.0	5.4	24	46	54	14	10	33
8	14	7.5	9.9	e5.0	e6.5	5.5	24	41	51	13	12	25
9	15	13	9.4	4.8	e6.5	5.6	25	37	50	13	12	58
10	14	11	8.5	4.8	e7.0	5.9	29	33	48	12	12	156
11	14	10	8.4	4.8	e7.0	6.4	47	29	50	11	12	77
12	13	9.4	8.2	4.6	e7.5	7.4	70	33	51	10	12	60
13	13	8.8	8.2	4.6	8.4	7.6	65	50	44	9.9	12	53
14	13	8.4	8.2	4.6	9.4	6.7	80	57	39	9.6	12	49
15	12	8.2	8.2	4.6	9.0	6.7	81	87	38	9.0	12	41
16	12	8.2	8.1	4.7	8.2	7.2	66	83	38	8.8	11	36
17	12	8.2	6.6	4.7	7.8	8.4	67	140	35	8.5	11	31
18	12	8.2	5.9	e4.8	7.8	8.9	67	138	37	8.0	11	28
19	11	8.2	5.5	4.9	7.6	9.0	59	124	37	8.0	10	25
20	10	7.6	e5.5	5.0	7.3	9.9	51	143	39	7.6	10	23
21	9.5	7.8	5.8	5.0	6.9	12	49	167	34	8.0	10	21
22	9.4	7.8	6.8	5.0	6.7	13	49	195	32	8.1	9.3	19
23	12	7.8	6.7	5.1	6.6	14	46	195	29	7.8	10	17
24	11	8.2	5.6	5.0	6.0	16	42	172	27	7.8	11	16
25	10	8.2	e5.5	5.0	e6.0	16	44	172	25	7.6	11	15
26	11	8.2	e5.5	e5.0	e6.0	16	67	169	24	7.2	11	14
27	11	8.8	e5.5	5.3	5.9	14	91	183	23	7.6	11	14
28	10	9.6	e5.5	5.4	5.9	14	98	194	22	7.7	14	13
29	9.7	10	e5.5	5.8	---	15	99	174	21	7.6	22	12
30	9.3	11	5.5	6.3	---	14	88	163	21	7.4	26	12
31	8.8	---	e5.5	6.4	---	16	---	163	---	7.4	32	---
TOTAL	366.7	259.0	244.0	156.9	195.7	293.1	1567	3429	1484	331.6	381.0	971
MEAN	11.8	8.6	7.9	5.1	7.0	9.5	52	111	50	10.7	12.3	32
AC-FT	727	514	484	311	388	581	3110	6800	2940	658	756	1930
MAX	15	13	12	6.4	9.4	16	99	195	135	20	32	156
MIN	8.8	7.4	5.5	4.6	5.9	5.3	21	29	21	7.2	8.0	12
CAL YR 2002	TOTAL	3502.3	MEAN	9.60	MAX	57	MIN	2.7	AC-FT	6950		
WTR YR 2003	TOTAL	9679.0	MEAN	26.5	MAX	195	MIN	4.6	AC-FT	19200		

MAX DISCH: 232 CFS AT 00:30 ON May. 23, 2003 GH 4.81 FT. SHIFT 0.00 FT.
MAX GH: 4.81 FT. AT 00:30 ON May. 23, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

CHERRY CREEK AT THE MOUTH NEAR RED MESA, CO

LOCATION.--Lat 37°07'03", long 108°11'53", in NW¼SW¼ sec. 7, T.33 N., R.12 W., NMPM, La Plata County.

DRAINAGE AREA.--66 mi².

GAGE.--Graphic water-stage recorder and a Sutron 8200 DCP on separate floats in a concrete shelter and well. Datum of gauge is 6,450 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor. Record is complete. Station maintained by Matthew A. Schmitt and records developed Scott D. Brinton.

RATING TABLE.--CHEREDCO02 USED FROM 01-OCT-2002 TO 30-SEP-2003

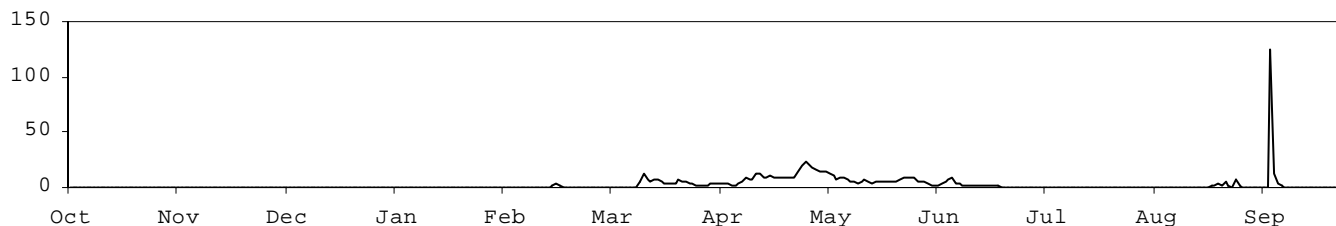
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	2.4	18	5.2	.00	.00	.63
2	.00	.00	.00	.00	.00	.00	4.1	16	4.7	.00	.00	.37
3	.00	.00	.00	.00	.00	.00	4.3	14	2.8	.00	.00	.32
4	.00	.00	.00	.00	.00	.00	4.0	14	2.4	.00	.00	.32
5	.00	.00	.00	.00	.00	.00	3.7	15	2.3	.00	.00	.29
6	.00	.00	.00	.00	.00	.00	3.9	12	2.3	.00	.00	.23
7	.00	.00	.00	.00	.00	.00	4.0	10	3.1	.00	.00	.20
8	.00	.00	.00	.00	.00	.00	2.7	8.0	5.1	.00	.00	.20
9	.00	.00	.00	.00	.00	.00	2.1	8.5	8.0	.00	.00	124
10	.00	.00	.00	.00	.00	.00	3.2	8.2	8.3	.00	.00	12
11	.00	.00	.00	.00	.00	.00	5.8	7.0	4.3	.00	.00	3.9
12	.00	.00	.00	.00	.00	.00	9.3	6.3	3.1	.00	.00	1.2
13	.00	.00	.00	.00	.00	5.2	8.0	5.2	2.5	.00	.00	.68
14	.00	.00	.00	.00	.00	13	8.1	3.6	1.8	.00	.00	.39
15	.00	.00	.00	.00	.00	6.4	12	5.1	2.0	.00	.00	.17
16	.00	.00	.00	.00	.98	4.7	12	6.8	1.7	.00	.00	.04
17	.00	.00	.00	.00	2.9	7.6	9.2	5.1	1.1	.00	.00	.00
18	.00	.00	.00	.00	1.5	6.7	9.7	3.9	1.0	.00	.00	.00
19	.00	.00	.00	.00	.25	4.8	10	5.9	2.1	.00	.00	.00
20	.00	.00	.00	.00	.00	3.8	9.5	6.0	2.1	.00	.00	.00
21	.00	.00	.00	.00	.00	3.7	9.2	6.0	1.7	.00	.00	.00
22	.00	.00	.00	.00	.00	3.9	9.4	6.0	1.4	.00	.00	.00
23	.00	.00	.00	.00	.00	4.4	9.2	5.8	.98	.00	1.7	.00
24	.00	.00	.00	.00	.00	6.4	8.8	6.1	.34	.00	1.0	.00
25	.00	.00	.00	.00	.00	5.8	8.2	6.2	.00	.00	4.4	.00
26	.00	.00	.00	.00	.00	4.7	8.9	7.0	.00	.00	1.4	.00
27	.00	.00	.00	.00	.00	4.2	14	8.5	.00	.00	5.6	.00
28	.00	.00	.00	.00	.00	3.6	19	8.2	.00	.00	1.0	.00
29	.00	.00	.00	.00	---	2.7	23	8.7	.00	.00	.25	.00
30	.00	.00	.00	.00	---	2.4	22	8.3	.00	.00	7.5	.00
31	.00	---	.00	.00	---	2.2	---	5.4	---	.00	1.4	---
TOTAL	.00	.00	.00	.00	5.63	96.2	259.7	254.8	70.32	.00	24.25	144.94
MEAN	.00	.00	.00	.00	.20	3.1	8.7	8.2	2.34	.00	.78	4.83
AC-FT	.00	.00	.00	.00	11	191	515	505	139	.00	48	287
MAX	.00	.00	.00	.00	2.9	13	23	18	8.3	.00	7.5	124
MIN	.00	.00	.00	.00	.00	.00	2.1	3.6	.00	.00	.00	.00

CAL YR	2002	TOTAL	53.31	MEAN	0.15	MAX	2.0	MIN	.00	AC-FT	106
WTR YR	2003	TOTAL	855.84	MEAN	2.34	MAX	124	MIN	.00	AC-FT	1700

MAX DISCH: 679 CFS AT 12:15 ON Sep. 9, 2003 GH 3.84 FT. SHIFT 0.54 FT.
MAX GH: 3.84 FT. AT 12:15 ON Sep. 9, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.



SAN JUAN RIVER BASIN

LONG HOLLOW AT THE MOUTH NEAR RED MESA, CO

LOCATION.--Lat 37°03'02", long 108°10'23", in SE¼SW¼ sec. 32, T.33 N., R.12 W., NMPM, La Plata County.

DRAINAGE AREA.--46.5 mi².

GAGE.--Graphic water-stage recorder with a Sutron 8200 DCP on separate floats in a 3' by 3' wooden shelter and well. The control is a four foot Parshall flume equipped with a staff gauge. Datum of gauge is 6,190 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Record from the DCP is complete, any data missing from the initial satellite transmissions was filled in from the DCP's logger files. It is reliable except for the following periods: Stage-discharge relationship affected by ice Dec. 19-22, 27-29 and 31, 2002; Jan. 3-4; Feb. 4-12, 2003. Record fair except for estimated daily discharges, which are poor, and periods of flow above 65 cfs which are poor. Station maintained by Matthew A. Schmitt and records developed Scott D. Brinton.

RATING TABLE.--LONREDCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

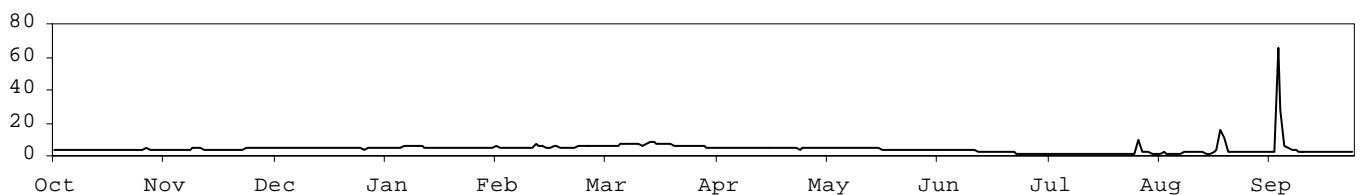
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.8	5.1	4.8	5.3	5.9	5.5	4.4	3.8	1.6	10	2.3
2	3.9	3.8	4.8	5.1	5.5	5.9	5.4	4.4	3.7	1.5	2.3	2.2
3	4.0	3.9	4.6	e5.0	5.4	6.1	5.2	4.3	3.6	1.4	2.2	2.2
4	3.9	3.8	4.7	e5.0	e5.0	6.1	5.2	4.4	3.6	1.4	2.0	2.5
5	3.7	3.7	4.6	5.3	e4.8	6.5	5.2	4.5	3.5	1.4	1.8	2.7
6	3.6	3.7	4.6	5.4	e4.6	6.3	5.1	4.5	3.5	1.4	1.8	2.4
7	3.6	3.8	4.5	5.5	e4.4	6.5	5.0	4.4	3.4	1.3	1.8	2.4
8	3.6	3.9	4.5	5.5	e4.6	6.6	4.9	4.4	3.2	1.3	2.1	2.3
9	3.6	5.4	4.5	5.5	e4.8	6.8	5.1	4.4	3.2	1.2	1.8	66
10	3.6	4.8	4.5	5.5	e5.0	7.0	5.0	4.4	3.2	1.1	1.8	28
11	3.6	4.3	4.5	5.8	e5.0	6.8	4.9	4.5	3.1	1.1	1.7	6.1
12	3.5	4.0	4.5	5.6	e5.0	6.7	4.9	4.5	3.2	1.1	1.7	4.4
13	3.4	3.9	4.4	5.3	7.0	7.0	4.7	4.6	3.3	1.1	1.7	3.5
14	3.4	4.0	4.4	5.3	6.6	6.9	4.7	4.7	3.3	1.1	1.9	3.2
15	3.5	3.9	4.7	5.4	5.6	6.4	4.8	4.9	3.1	1.1	2.1	3.0
16	3.5	3.9	4.7	5.2	5.4	6.7	4.9	4.9	3.1	1.1	1.9	3.0
17	3.6	4.0	5.2	5.2	5.3	8.9	4.8	4.8	2.9	1.2	2.0	2.9
18	3.5	4.1	4.9	5.2	5.5	8.3	4.7	4.6	2.8	1.2	2.1	2.8
19	3.4	4.0	e4.8	5.3	5.5	7.8	4.7	4.8	2.7	1.2	1.9	2.9
20	3.4	4.0	e4.7	5.4	5.4	7.2	4.8	4.5	2.7	1.2	1.8	2.9
21	3.5	4.0	e4.5	5.4	5.3	7.1	4.8	4.2	2.3	1.3	1.8	2.8
22	3.4	4.1	e4.6	5.3	5.2	6.8	4.7	4.0	2.2	1.3	1.9	2.8
23	3.7	4.2	4.9	5.3	5.2	6.8	4.7	3.9	2.1	1.3	3.7	2.8
24	3.7	4.3	5.0	5.4	5.2	6.5	4.7	3.8	2.0	1.5	16	2.8
25	3.6	4.3	4.8	5.4	5.7	6.3	4.5	3.6	1.9	1.4	11	2.8
26	3.7	4.3	e4.6	5.3	6.5	6.2	4.5	3.7	1.9	1.3	2.8	2.7
27	4.3	4.3	e4.2	5.3	6.3	6.0	4.4	4.0	1.9	1.4	2.5	2.7
28	3.8	4.4	e4.6	5.3	6.3	5.9	4.2	3.9	1.8	1.7	2.8	2.7
29	3.8	4.5	4.9	5.2	---	5.8	4.5	3.8	1.7	1.6	2.6	2.7
30	3.8	4.6	4.9	5.2	---	5.6	4.5	3.8	1.6	1.6	2.4	2.7
31	3.8	---	e4.8	5.2	---	5.6	---	3.8	---	1.5	2.3	---
TOTAL	113.1	123.7	145.0	164.6	151.4	205.0	145.0	133.4	84.3	40.9	96.2	175.2
MEAN	3.7	4.1	4.7	5.3	5.4	6.6	4.8	4.3	2.8	1.3	3.1	5.8
AC-FT	224	245	288	326	300	407	288	265	167	81	191	348
MAX	4.3	5.4	5.2	5.8	7.0	8.9	5.5	4.9	3.8	1.7	16	66
MIN	3.4	3.7	4.2	4.8	4.4	5.6	4.2	3.6	1.6	1.1	1.7	2.2
CAL YR 2002	TOTAL	1703.4	MEAN	4.67	MAX	8.4	MIN	2.0	AC-FT	3380		
WTR YR 2003	TOTAL	1577.8	MEAN	4.32	MAX	66	MIN	1.1	AC-FT	3130		

MAX DISCH: Undetermined.

MAX GH: 4.10 FT. AT 11:30 ON Sep. 9, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

e-Estimated



SAN JUAN RIVER BASIN

PIONEER DITCH AT THE COLORADO-NEW MEXICO STATELINE

LOCATION.--Lat 36°59'58", long 108°11'09", in NW¼SE¼ sec. 10, T.32 N., R.13 W., NMPM, La Plata County.

DRAINAGE AREA.--N/A

GAGE.--Water-stage recorder with Sutron 8200 DCP in a shelter and well at a 1 foot Parshall flume.

REMARKS.--Records good. Record complete. Station maintained by Matthew A. Schmitt. Records developed by Scott D. Brinton.

RATING TABLE.--PIODITCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

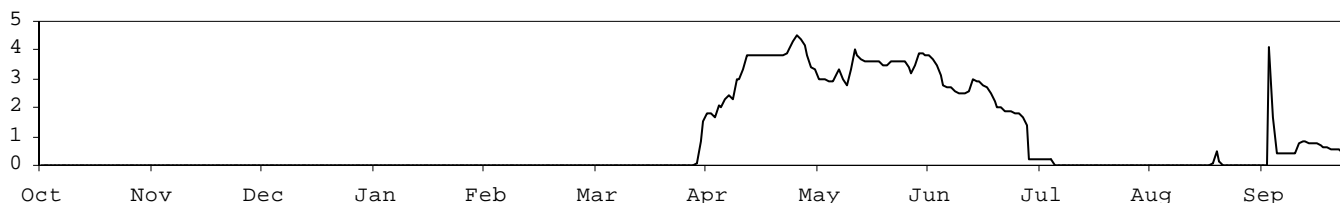
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	4.4	3.2	1.8	.00	.00
2	.00	.00	.00	.00	.00	.00	.06	4.2	3.5	1.7	.00	.00
3	.00	.00	.00	.00	.00	.00	.83	3.8	3.9	1.4	.00	.00
4	.00	.00	.00	.00	.00	.00	1.5	3.4	3.9	.23	.00	.00
5	.00	.00	.00	.00	.00	.00	1.8	3.3	3.8	.22	.00	.00
6	.00	.00	.00	.00	.00	.00	1.8	3.0	3.8	.22	.00	.00
7	.00	.00	.00	.00	.00	.00	1.7	3.0	3.7	.22	.00	.00
8	.00	.00	.00	.00	.00	.00	2.1	3.0	3.5	.22	.00	.00
9	.00	.00	.00	.00	.00	.00	2.0	2.9	3.1	.21	.00	4.1
10	.00	.00	.00	.00	.00	.00	2.3	2.9	2.8	.20	.00	1.7
11	.00	.00	.00	.00	.00	.00	2.4	3.2	2.7	e.00	.00	.40
12	.00	.00	.00	.00	.00	.00	2.3	3.3	2.7	e.00	.00	.40
13	.00	.00	.00	.00	.00	.00	3.0	3.0	2.6	e.00	.00	.40
14	.00	.00	.00	.00	.00	.00	3.0	2.8	2.5	e.00	.00	.40
15	.00	.00	.00	.00	.00	.00	3.3	3.3	2.5	e.00	.00	.40
16	.00	.00	.00	.00	.00	.00	3.8	4.0	2.5	e.00	.00	.40
17	.00	.00	.00	.00	.00	.00	3.8	3.8	2.6	e.00	.00	.79
18	.00	.00	.00	.00	.00	.00	3.8	3.7	3.0	.00	.00	.82
19	.00	.00	.00	.00	.00	.00	3.8	3.6	2.9	.00	.00	.80
20	.00	.00	.00	.00	.00	.00	3.8	3.6	2.9	.00	.00	.79
21	.00	.00	.00	.00	.00	.00	3.8	3.6	2.8	.00	.00	.76
22	.00	.00	.00	.00	.00	.00	3.8	3.6	2.7	.00	.00	.74
23	.00	.00	.00	.00	.00	.00	3.8	3.6	2.5	.00	.00	.70
24	.00	.00	.00	.00	.00	.00	3.8	3.5	2.2	.00	.06	.65
25	.00	.00	.00	.00	.00	.00	3.8	3.5	2.0	.00	.52	.62
26	.00	.00	.00	.00	.00	.00	3.8	3.6	2.0	.00	.11	.58
27	.00	.00	.00	.00	.00	.00	3.9	3.6	1.9	.00	.00	.53
28	.00	.00	.00	.00	.00	.00	4.0	3.6	1.9	.00	.00	.54
29	.00	.00	.00	.00	---	.00	4.3	3.6	1.9	.00	.00	.51
30	.00	.00	.00	.00	---	.00	4.5	3.6	1.8	.00	.00	.48
31	.00	---	.00	.00	---	.00	---	3.4	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	86.59	107.4	83.8	6.42	.69	17.51
MEAN	.00	.00	.00	.00	.00	.00	2.89	3.5	2.8	.21	.02	.58
AC-FT	.00	.00	.00	.00	.00	.00	172	213	166	13	1.40	35
MAX	.00	.00	.00	.00	.00	.00	4.5	4.4	3.9	1.8	.52	4.1
MIN	.00	.00	.00	.00	.00	.00	.00	2.8	1.8	.00	.00	.00

CAL YR 2002 TOTAL 155.11 MEAN .42 MAX 3.5 MIN .00 AC-FT 308
WTR YR 2003 TOTAL 302.41 MEAN .83 MAX 4.5 MIN .00 AC-FT 600

MAX DISCH: 11 CFS AT 16:00 ON Sep. 9, 2003 GH 1.94 FT. SHIFT .00 FT.
MAX GH: 1.94 FT. AT 16:00 ON Sep. 9, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

ENTERPRISE DITCH AT THE COLORADO-NEW MEXICO STATELINE

LOCATION.--Lat 37°00'50", long 108°11'18", in SW¼SE¼ sec. 3, T.32 N., R.13 W., NMPM, La Plata County.

DRAINAGE AREA.--N/A

GAGE.--Water-stage recorder with Sutron 8200 DCP in a shelter and well at a 2 foot Parshall flume.

REMARKS.--Records good. Record complete. Station maintained by Matthew A. Schmitt.
Records developed by Scott D. Brinton.

RATING TABLE.--ENTDITCO01 USED FROM 01-OCT-2002 TO 30-SEP-2003

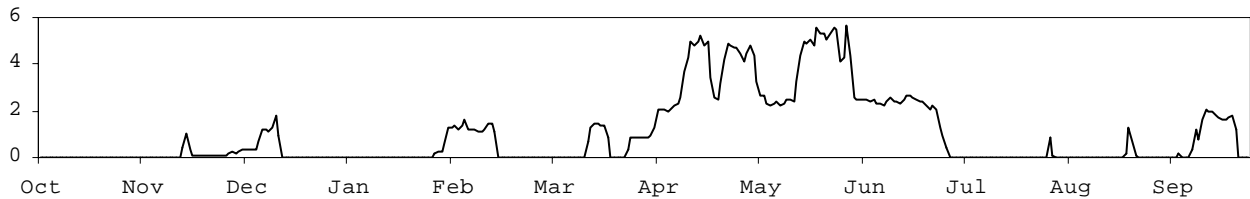
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.37	.00	1.3	.00	.82	4.1	5.7	.40	.87	.00
2	.00	.00	.34	.00	1.3	.00	.83	4.5	4.4	.00	.09	.00
3	.00	.00	.34	.00	1.4	.00	.93	4.8	2.6	.00	.00	.00
4	.00	.00	.34	.00	1.2	.00	1.3	4.4	2.5	.00	.00	.00
5	.00	.00	.35	.00	1.4	.00	2.1	3.3	2.5	.00	.00	.00
6	.00	.00	.71	.00	1.6	.00	2.1	2.7	2.5	.00	e.00	.00
7	.00	.00	1.2	.00	1.2	.00	2.1	2.7	2.5	.00	e.00	.00
8	.00	.00	1.2	.00	1.2	.00	2.0	2.3	2.4	.00	e.00	.00
9	.00	.00	1.1	.00	1.2	.00	2.1	2.2	2.5	.00	e.00	.13
10	.00	.00	1.3	.00	1.1	.00	2.2	2.3	2.3	.00	e.00	.00
11	.00	.00	1.8	.00	1.1	.00	2.3	2.4	2.3	.00	e.00	.00
12	.00	.00	.92	.00	1.2	.00	2.6	2.2	2.2	.00	e.00	.00
13	.00	.47	.00	.00	1.5	.00	3.7	2.3	2.4	.00	.00	.35
14	.00	1.0	.00	.00	1.5	.00	4.3	2.5	2.6	.00	e.00	1.2
15	.00	.35	.00	.00	1.1	.67	5.0	2.5	2.4	.00	e.00	.77
16	.00	.06	.00	.00	.00	1.3	4.8	2.4	2.4	.00	e.00	1.6
17	.00	.09	.00	.00	.00	1.5	5.0	3.3	2.3	e.00	e.00	2.1
18	.00	.07	.00	.00	.00	1.5	5.2	4.4	2.5	e.00	e.00	2.0
19	.00	.08	.00	.00	.00	1.4	4.8	5.0	2.7	e.00	e.00	2.0
20	.00	.08	.00	.00	.00	1.4	5.0	4.9	2.7	e.00	e.00	1.8
21	.00	.05	.00	.00	.00	.85	3.4	5.1	2.6	.00	.00	1.7
22	.00	.05	.00	.00	.00	.00	2.6	4.8	2.5	e.00	.00	1.6
23	.00	.05	.00	.00	.00	.00	2.5	5.6	2.4	.00	.00	1.6
24	.00	.05	.00	.00	.00	.00	3.2	5.3	2.4	e.00	.13	1.7
25	.00	.05	.00	.00	.00	.00	4.2	5.3	2.2	e.00	1.3	1.8
26	.00	.08	.00	.00	.00	.00	4.9	5.1	2.1	e.00	.69	1.2
27	.00	.13	.00	.00	.00	.37	4.8	5.3	2.2	e.00	.12	.00
28	.00	.23	.00	.15	.00	.88	4.7	5.6	2.1	e.00	.00	.00
29	.00	.16	.00	.26	---	.88	4.7	5.5	1.3	e.00	.00	.00
30	.00	.30	.00	.26	---	.85	4.5	4.1	.98	e.00	.00	.00
31	.00	---	.00	.57	---	.82	---	4.3	---	e.00	.00	---
TOTAL	.00	3.35	9.97	1.24	19.3	12.42	98.68	121.2	75.18	.40	3.20	21.55
MEAN	.00	.11	.32	.04	.69	.40	3.29	3.9	2.51	.01	.10	.72
AC-FT	.00	6.6	20	2.5	38	25	196	240	149	.80	6.3	43
MAX	.00	1.0	1.8	.57	1.6	1.5	5.2	5.6	5.7	.40	1.3	2.1
MIN	.00	.00	.00	.00	.00	.00	.82	2.2	.98	.00	.00	.00

CAL YR 2002 TOTAL 95.94 MEAN 0.26 MAX 4.6 MIN .00 AC-FT 190
WTR YR 2003 TOTAL 366.49 MEAN 1.0 MAX 5.7 MIN .00 AC-FT 727

MAX DISCH: 6.44 CFS AT 20:30 ON Aug. 1, 2003 GH 0.90 FT. SHIFT -0.03 FT.
MAX GH: 0.90 FT. AT 20:30 ON Aug. 1, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 36°59'59", long 108°11'17", in NW¼SE¼ sec. 10, T.32 N., R.13 W., NMPM, La Plata County, CO, Hydrologic Unit 14080105, on right bank at Colorado-New Mexico State line, 0.5 mi downstream of Johnny Pond Arroyo, and 4.9 mi north of La Plata, NM.

DRAINAGE AREA AND PERIOD OF RECORD.--331 mi². Jan. 1920 to current year. Monthly data only for some periods.

GAGE.--Stevens A-71 graphic water stage-recorder and Sutron 8200 DCP and shaft encoder on separate floats in a 42- inch diameter concrete well and a 64 inch by 64 inch cement block shelter. The floats are located inside of a 14 inch PVC oil cylinder. Also equipped with an air temperature sensor. The DCP record is the primary record. A Sutron Satlink DCP and shaft encoder were installed June 19, 2003. They are the primary data source for gage height records. Datum of gage is 5,975.15 ft above National Geodetic Vertical Datum of 1929.

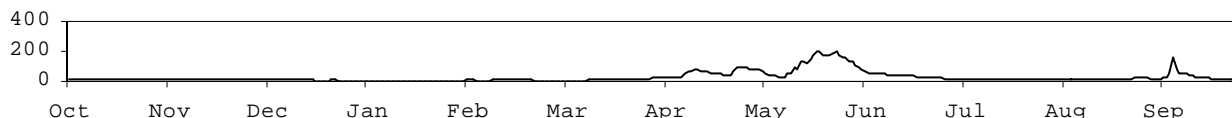
REMARKS.--Record from the DCP is complete, any data missing from the initial satellite transmissions were filled in from the DCP's logger files. It is reliable except for the following periods: Stage-discharge relationship affected by ice Dec. 19 and 22-31,2002; Jan. 1-6,2003. Inlets were plugged Apr. 25-27 and May 19-23,2003, resulting in an indefinite stage-discharge relationship. Record good except for estimated flows, which are poor. Station maintained and record developed by Scott D Brinton.

RATING TABLE.--LAPMEXCO32 USED FROM 01-OCT-2002 TO 30-SEP-2003

DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.0	3.2	e5.0	.68	4.2	5.3	43	95	3.4	2.9	1.4
2	3.0	2.9	2.8	e4.0	.70	4.9	6.0	46	75	1.4	.44	1.1
3	3.3	2.9	2.6	e4.0	.65	4.4	14	37	69	.67	.00	1.1
4	3.2	3.0	2.3	e4.5	.62	3.6	14	34	65	1.4	.00	.98
5	3.0	2.9	1.4	e5.0	.74	3.9	11	36	57	1.0	.00	1.3
6	2.7	2.9	1.0	e6.0	.76	3.7	9.0	33	49	.79	.00	.95
7	2.6	2.9	.44	6.3	1.0	4.1	8.5	28	37	.61	.00	.99
8	2.5	3.1	.47	6.0	1.3	4.2	6.4	27	30	.44	.00	.76
9	2.5	5.2	.56	6.0	1.3	4.4	5.6	24	30	.27	.00	382
10	2.6	4.6	.79	5.9	1.4	4.2	9.1	21	30	.16	.00	124
11	2.4	4.1	1.1	5.9	1.4	3.3	14	18	23	.05	.00	22
12	2.2	3.8	1.3	5.9	1.0	3.1	23	16	28	.01	.00	31
13	2.2	3.6	1.8	5.4	2.1	3.1	24	19	25	.00	.00	20
14	2.4	3.6	2.0	5.3	2.4	4.1	21	24	20	.00	.00	18
15	2.4	3.6	2.2	5.4	1.2	4.1	30	41	16	.00	.00	15
16	2.5	3.3	1.9	5.2	4.2	3.1	36	52	15	.00	.00	17
17	2.5	3.5	3.2	5.1	4.2	7.5	24	55	13	.00	.00	15
18	2.6	3.4	4.6	4.9	4.3	6.6	26	64	14	.00	.00	10
19	2.6	3.4	e2.8	5.0	3.9	4.5	26	e70	17	.00	.00	9.4
20	2.6	3.6	3.1	5.1	3.6	3.6	18	e85	19	.00	.00	7.6
21	2.6	3.6	5.0	5.2	3.4	3.5	18	e105	16	.00	.00	6.0
22	2.6	3.6	e3.0	5.0	3.1	4.2	20	e130	12	.00	.00	5.0
23	2.8	3.9	e3.5	5.0	3.0	4.7	21	e105	8.9	.00	.00	4.2
24	2.9	3.9	e3.0	5.0	3.2	5.1	22	59	6.0	.00	5.3	3.5
25	2.8	3.9	e2.5	5.0	3.8	6.1	e25	54	5.0	.00	14	2.5
26	2.9	3.8	e2.0	5.0	4.6	7.0	e30	82	6.0	.00	1.5	2.1
27	3.5	3.7	e2.0	5.1	4.1	7.1	e35	66	6.0	.00	3.3	3.0
28	3.0	3.7	e3.0	4.4	4.0	6.2	43	74	4.3	.00	5.2	3.2
29	3.0	4.1	e4.0	2.0	---	6.4	46	84	4.2	.00	2.3	3.2
30	2.9	3.7	e4.0	1.8	---	5.8	47	94	4.4	.00	2.6	3.1
31	3.1	---	e4.0	1.6	---	5.5	---	133	---	.00	4.3	---
TOTAL	84.6	107.2	75.56	151.0	66.65	146.2	637.9	1759	799.8	10.20	41.84	715.38
MEAN	2.70	3.60	2.44	4.90	2.38	4.70	21.3	57.0	26.7	.33	1.35	23.8
AC-FT	168	213	150	300	132	290	1270	3490	1590	.20	83	1420
MAX	3.5	5.2	5.0	6.3	4.6	7.5	47	133	95	3.4	14	382
MIN	2.2	2.9	.44	1.6	.62	3.1	5.3	16	4.2	.00	.00	.76

CAL YR 2002 TOTAL 1581.83 MEAN 4.33 MAX 17 MIN .00 AC-FT 3140
WTR YR 2003 TOTAL 4595.33 MEAN 12.6 MAX 382 MIN .00 AC-FT 9110
MAX DISCH: 1380 CFS AT 15:30 ON Sep. 9, 2003 GH 8.67 FT. SHIFT .00 FT.
MAX GH: 8.67 FT. AT 15:30 ON Sep. 9, 2003
FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



SAN JUAN RIVER BASIN

09370000 MANCOS RIVER NEAR MANCOS, CO

LOCATION.--Lat 37°21'13", long 108°15'41", in NE¼NE¼ sec. 27, T.36 N., R.13 W., NMPM, Montezuma County.

DRAINAGE AREA.--72.6 mi².

GAGE.--Graphic water-stage recorder and a Sutron 8200 DCP on separate floats in a 42" concrete well and 64"x64" cement block shelter. The DCP is the primary record. Datum of gauge is 7,190 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Record is complete. Record is reliable except for the following periods: Stage-discharge relationship affected by ice; Nov. 16-20, 26-30; Dec. 1-14, 16-28 and 31, 2002; Jan. 1-5, 7-8 and 12-31; Feb. 1, 3-16, 19-24 and 27-28; March 1-10 and 29-30, 2003. Record fair, except for estimated daily discharges, which are poor. Station maintained and records developed by Scott D. Brinton.

RATING TABLE.--MANMANCO08 USED FROM 01-OCT-2002 TO 30-SEP-2003

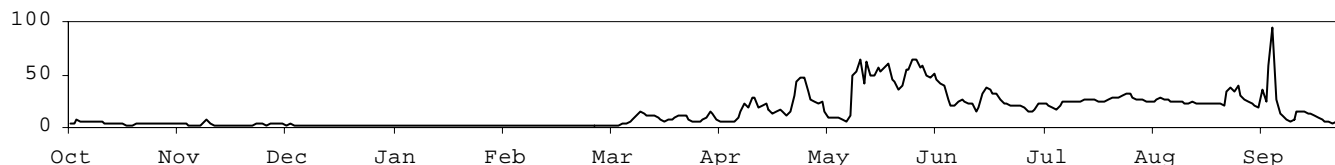
DISCHARGE, IN CFS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.8	e3.0	e2.6	e2.4	e2.0	10	27	56	18	29	31
2	4.6	3.2	e2.8	e2.4	2.1	e2.0	16	24	58	15	27	27
3	7.8	2.9	e3.0	e2.4	e2.0	e2.2	13	23	49	15	27	24
4	5.6	2.7	e2.8	e2.4	e2.0	e2.6	7.3	25	47	17	27	23
5	6.3	2.7	e2.6	e2.4	e2.0	e2.4	6.1	16	51	23	25	20
6	5.9	2.5	e2.6	2.6	e2.0	e2.0	5.9	8.5	46	23	24	18
7	5.8	2.7	e2.6	e2.4	e2.0	e2.6	5.3	10	41	23	25	35
8	5.8	3.2	e2.8	e2.2	e2.2	e3.0	5.2	10	39	20	27	25
9	5.7	8.3	e2.6	2.1	e2.0	e3.6	6.0	10	27	18	28	58
10	5.3	3.9	e2.6	2.1	e2.0	e5.0	9.4	6.7	20	17	27	94
11	4.7	2.8	e2.6	2.3	e2.0	7.4	15	5.0	21	21	27	26
12	4.3	2.1	e2.4	e2.2	e2.0	12	22	12	25	24	25	14
13	3.8	2.2	e2.6	e2.0	e2.2	16	19	50	26	24	24	12
14	3.5	1.9	e2.6	e2.2	e2.2	14	29	53	24	24	25	7.9
15	3.4	1.6	2.8	e2.2	e2.2	12	29	64	23	24	25	5.3
16	3.1	e1.2	e2.6	e2.2	e2.4	12	19	42	22	25	22	7.5
17	2.8	e1.4	e2.6	e2.2	2.5	12	21	62	15	25	23	15
18	2.8	e1.2	e2.4	e2.0	2.4	8.9	22	50	18	26	24	15
19	2.8	e1.4	e2.0	e2.0	e2.2	7.4	17	50	33	27	23	15
20	2.9	e1.6	e2.2	e2.0	e2.2	6.5	13	56	37	27	22	14
21	3.2	1.7	e2.4	e2.2	e2.2	7.0	15	53	35	26	23	13
22	3.2	2.8	e2.6	e2.2	e2.2	8.3	17	56	33	25	22	12
23	3.2	3.0	e2.4	e2.4	e2.2	9.8	16	61	32	24	22	8.9
24	3.3	3.5	e2.4	e2.4	e2.4	12	12	45	27	24	22	7.5
25	3.6	3.0	e2.4	e2.4	2.3	11	16	43	23	26	23	5.7
26	3.3	e2.8	e2.0	e2.2	2.3	11	31	35	22	29	22	5.0
27	4.6	e3.0	e2.2	e2.4	e2.0	8.4	44	39	21	29	20	4.7
28	3.8	e3.0	e2.4	e2.4	e2.0	6.3	47	54	21	29	34	4.8
29	4.4	e3.0	2.6	e2.4	---	e6.0	47	54	20	31	37	4.9
30	3.8	e3.0	2.5	e2.4	---	e5.4	34	65	20	32	34	4.7
31	4.7	---	e2.4	e2.6	---	7.2	---	64	---	33	39	---
TOTAL	132.0	82.1	78.5	70.9	60.6	228.0	569.2	1173.2	932	744	804	557.9
MEAN	4.3	2.7	2.5	2.3	2.2	7.4	19	37.8	31	24	26	18.6
AC-FT	262	163	156	141	120	452	1130	2330	1850	1480	1590	1110
MAX	7.8	8.3	3.0	2.6	2.5	16	47	65	58	33	39	94
MIN	2.8	1.2	2.0	2.0	2.0	2.0	5.2	5.0	15	15	20	4.7

CAL YR	2002	TOTAL	1715.66	MEAN	4.7	MAX	37	MIN	.96	AC-FT	3400
WTR YR	2003	TOTAL	5432.4	MEAN	14.9	MAX	94	MIN	1.2	AC-FT	10780

MAX DISCH: 179 CFS AT 00:00 ON Sep. 10, 2003 GH 4.80 FT. SHIFT -0.15 FT.
MAX GH: 4.80 FT. AT 00:00 ON Sep. 10, 2003

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.
e-Estimated



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