CLOSED BASIN IN SAN LUIS VALLEY, CO

372833105455800 CLOSED BASIN PROJECT CANAL NEAR ALAMOSA, CO

LOCATION.--Lat 37°28'33", long 105°45'58", in SW¼SW¼ sec.3, T.37 N., R.11 E., Alamosa County, Hydrologic Unit 13010002, on right bank of Closed Basin Project Canal, 400 ft north of State Highway 160, and 5.5 mi east of Alamosa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=372833105455800

GAGE.--Water-stage recorders with satellite telemetry and 12 ft Parshall flume. Elevation of gage is 7,531.15 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good except for estimated daily discharges, which are fair. The Closed Basin Project Canal delivers water from the Closed Basin in the San Luis Valley to the Rio Grande just downstream from Alamosa. Shallow (unconfined) aquifer water is pumped into the canal by a system of pumps.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	19	24	23	21	18	12	16	16	22	10	13
2	21	23	24	23	21	18	13	16	15	20	8.3	17
3	22	22	24	23	21	17	13	16	16	18	6.6	18
4	23	28	20	24	21	17	13	17	16	17	5.9	22
5	23	28	19	24	21	17	14	19	18	17	5.9	22
6	24	27	18	23	21	17	15	20	17	17	6.5	23
7	23	30	19	22	21	18	15	19	17	17	6.7	22
8	22	28	27	23	21	18	15	19	16	16	6.4	26
9	19	27	25	23	20	17	16	18	17	16	6.2	27
10	17	25	23	24	20	16	17	16	17	16	8.3	26
11	19	19	24	24	20	15	17	15	18	16	8.3	24
12	20	19	25	24	20	15	17	15	18	15	9.0	23
13	20	20	24	23	20	15	17	16	19	14	9.0	22
14	19	23	24	e23	20	15	17	17	19	13	8.7	22
15	19	28	23	22	20	15	16	17	19	12	8.5	23
16	17	27	22	22	20	17	17	18	18	12	8.2	22
17	16	25	22	23	20	17	17	19	18	11	7.8	22
18	16	23	24	23	19	15	16	25	19	11	7.7	22
19	16	23	25	23	20	14	16	22	18	11	7.9	21
20	16	22	26	23	20	11	16	19	19	12	8.1	21
21	17	17	25	23	20	8.7	17	21	20	12	8.4	21
22	17	16	24	22	20	8.8	18	20	19	12	8.8	21
23	18	16	24	22	20	13	19	19	20	11	9.0	19
24	18	16	23	21	20	15	18	17	20	10	8.9	17
25	16	19	22	21	20	16	18	17	19	11	9.7	17
26	18	28	22	21	20	16	18	17	20	12	9.9	17
27	21	27	22	21	20	16	18	18	22	11	10	17
28	21	25	22	21	19	15	17	16	22	11	9.9	17
29	20	24	22	21	19	14	17	16	22	11	10	18
30	19	24	22	22	---	14	17	19	23	11	9.9	17
31	19	---	22	22	---	13	---	17	---	11	11	---
TOTAL	595	698	712	699	585	471.5	486	556	557	426	259.5	619
MEAN	19.2	23.3	23.0	22.5	20.2	15.2	16.2	17.9	18.6	13.7	8.37	20.6
MAX	24	30	27	24	21	18	19	25	23	22	11	27
MIN	16	16	18	21	19	8.7	12	15	15	10	5.9	13
AC-FT	1,180	1,380	1,410	1,390	1,160	935	964	1,100	1,100	845	515	1,230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	22.0	22.6	25.6	31.1	30.7	28.0	27.0	24.9	24.1	21.1	18.8	20.9
MAX	35.0	31.6	35.7	42.4	38.1	33.0	34.7	34.3	32.9	35.1	28.1	33.0
(WY)	(2000)	(1999)	(1999)	(1999)	(1999)	(2003)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)
MIN	11.2	11.3	10.4	22.5	20.2	15.2	16.2	17.9	17.7	13.7	8.37	11.9
(WY)	(2001)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2004)	(2004)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	8,818.5		6,664.0			
ANNUAL MEAN	24.2		18.2		24.7	
HIGHEST ANNUAL MEAN					33.8	1999
LOWEST ANNUAL MEAN					18.2	2004
HIGHEST DAILY MEAN	36	Mar 19	30	Nov 7	63	Dec 21, 1998
LOWEST DAILY MEAN	5.0	Sep 13	5.9	Aug 4	5.0	Sep 13, 2003
ANNUAL SEVEN-DAY MINIMUM	5.4	Sep 11	6.3	Aug 3	5.4	Sep 11, 2003
MAXIMUM PEAK FLOW			31	Nov 6	101	Dec 21, 1998
MAXIMUM PEAK STAGE			0.77	Nov 6	a1.70	Dec 21, 1998
ANNUAL RUNOFF (AC-FT)	17,490		13,220		17,900	
10 PERCENT EXCEEDS	32		24		35	
50 PERCENT EXCEEDS	25		19		25	
90 PERCENT EXCEEDS	16		11		14	

e Estimated.
a Maximum gage height, 1.92 ft, Jan 29, 2002, backwater from ice.