

Water-Data Report 2013

02293346 HORSESHOE CANAL AT CAPE CORAL, FL

Peace Basin
Charlotte Harbor Subbasin

LOCATION.--Lat 26°40'41", long 82°02'26" referenced to North American Datum of 1927, in SW ¼ NW ¼ NW ¼ sec.5, T.44 S., R.23 E., Lee County, FL, Hydrologic Unit 03100103, on left bank, 100 ft north of Diplomat Parkway 152 ft upstream from weir and 252 ft east of State Road 765 (Burnt Store Road) in Cape Coral.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1987 to May 2013. (Discontinued).

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

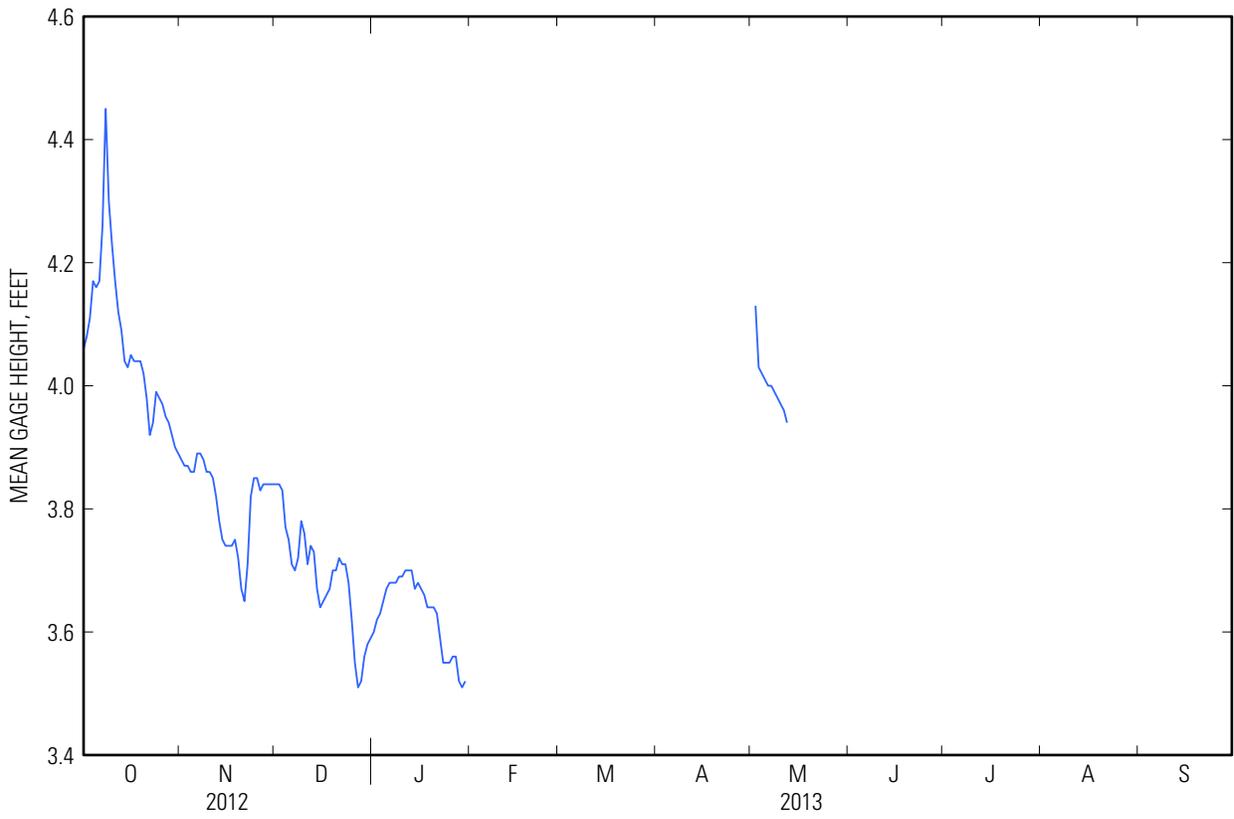
REMARKS.--Mean daily discharges were estimated from Jan. 31, 2013 to May 1, 2013 and May 13, 2013 to May 31, 2013. Records poor due to adjustable weir plates installed on top of weir structure and debris accumulation. Plates were installed May 2006 to increase storage upstream of weir. Zero flow occurs for numerous days during most water years. For the periods of no flow record reported, flow was affected by unquantifiable variable leakage in the concrete weir structure. Gage height records for the 1998, 1999 and 2000 water years were revised based on levels run during the 2001 water year. The corrected gage heights are in the files of the U.S. Geological Survey. Extremely low flows are occasionally affected by water that is diverted from the canal during dry periods by the City of Cape Coral to supplement their dual water supply. Zero flow occurs for numerous days during most water years.

02293346 HORSESHOE CANAL AT CAPE CORAL, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.06	3.88	3.84	3.60	---	---	---	---	---	---	---	---
2	4.08	3.87	3.84	3.62	---	---	---	4.13	---	---	---	---
3	4.11	3.87	3.83	3.63	---	---	---	4.03	---	---	---	---
4	4.17	3.86	3.77	3.65	---	---	---	4.02	---	---	---	---
5	4.16	3.86	3.75	3.67	---	---	---	4.01	---	---	---	---
6	4.17	3.89	3.71	3.68	---	---	---	4.00	---	---	---	---
7	4.26	3.89	3.70	3.68	---	---	---	4.00	---	---	---	---
8	4.45	3.88	3.72	3.68	---	---	---	3.99	---	---	---	---
9	4.30	3.86	3.78	3.69	---	---	---	3.98	---	---	---	---
10	4.23	3.86	3.76	3.69	---	---	---	3.97	---	---	---	---
11	4.17	3.85	3.71	3.70	---	---	---	3.96	---	---	---	---
12	4.12	3.82	3.74	3.70	---	---	---	3.94	---	---	---	---
13	4.09	3.78	3.73	3.70	---	---	---	---	---	---	---	---
14	4.04	3.75	3.67	3.67	---	---	---	---	---	---	---	---
15	4.03	3.74	3.64	3.68	---	---	---	---	---	---	---	---
16	4.05	3.74	3.65	3.67	---	---	---	---	---	---	---	---
17	4.04	3.74	3.66	3.66	---	---	---	---	---	---	---	---
18	4.04	3.75	3.67	3.64	---	---	---	---	---	---	---	---
19	4.04	3.72	3.70	3.64	---	---	---	---	---	---	---	---
20	4.02	3.67	3.70	3.64	---	---	---	---	---	---	---	---
21	3.98	3.65	3.72	3.63	---	---	---	---	---	---	---	---
22	3.92	3.71	3.71	3.59	---	---	---	---	---	---	---	---
23	3.94	3.82	3.71	3.55	---	---	---	---	---	---	---	---
24	3.99	3.85	3.68	3.55	---	---	---	---	---	---	---	---
25	3.98	3.85	3.62	3.55	---	---	---	---	---	---	---	---
26	3.97	3.83	3.55	3.56	---	---	---	---	---	---	---	---
27	3.95	3.84	3.51	3.56	---	---	---	---	---	---	---	---
28	3.94	3.84	3.52	3.52	---	---	---	---	---	---	---	---
29	3.92	3.84	3.56	3.51	---	---	---	---	---	---	---	---
30	3.90	3.84	3.58	3.52	---	---	---	---	---	---	---	---
31	3.89	---	3.59	---	---	---	---	---	---	---	---	---
Total	126.01	114.35	114.32	---	---	---	---	---	---	---	---	---
Mean	4.06	3.81	3.69	---	---	---	---	---	---	---	---	---
Max	4.45	3.89	3.84	---	---	---	---	---	---	---	---	---
Min	3.89	3.65	3.51	---	---	---	---	---	---	---	---	---

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	22	14	0.00	0.00	e0.00	e0.00	e0.00	e40	---	---	---	---
2	47	6.9	0.00	0.00	e0.00	e0.00	e0.00	72	---	---	---	---
3	77	0.31	0.00	0.00	e0.00	e0.00	e0.00	33	---	---	---	---
4	112	0.09	0.00	0.00	e0.00	e0.00	e0.00	31	---	---	---	---
5	121	0.08	0.00	0.00	e0.00	e0.00	e0.00	28	---	---	---	---
6	130	2.8	0.00	0.00	e0.00	e0.00	e0.00	26	---	---	---	---
7	210	2.1	0.00	0.00	e0.00	e0.00	e0.00	23	---	---	---	---
8	340	1.3	0.00	0.00	e0.00	e0.00	e0.00	21	---	---	---	---
9	185	0.17	0.00	0.00	e0.00	e0.00	e0.00	18	---	---	---	---
10	116	0.07	0.00	0.00	e0.00	e0.00	e0.00	15	---	---	---	---
11	86	0.01	0.00	0.00	e0.00	e0.00	e0.00	14	---	---	---	---
12	73	0.00	0.16	0.00	e0.00	e0.00	e0.00	11	---	---	---	---
13	87	0.00	1.4	0.00	e0.00	e0.00	e0.00	e7.5	---	---	---	---
14	99	0.00	0.10	0.00	e0.00	e0.00	e0.00	e3.7	---	---	---	---
15	69	0.00	0.00	0.00	e0.00	e0.00	e0.00	e2.9	---	---	---	---
16	48	0.00	0.00	0.00	e0.10	e0.00	e0.00	e2.1	---	---	---	---
17	42	0.00	0.00	0.00	e0.00	e0.00	e0.00	e2.6	---	---	---	---
18	37	0.00	0.00	0.00	e0.00	e0.00	e0.00	e1.3	---	---	---	---
19	40	0.00	0.00	0.00	e0.00	e0.00	e0.00	e1.5	---	---	---	---
20	52	0.00	0.00	0.00	e0.00	e0.00	e0.00	e1.4	---	---	---	---
21	57	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.70	---	---	---	---
22	60	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.00	---	---	---	---
23	37	1.6	0.00	0.00	e0.00	e0.00	e0.00	e0.00	---	---	---	---
24	22	6.4	0.00	0.00	e0.00	e0.00	e0.00	e0.00	---	---	---	---
25	22	9.1	0.00	0.00	e0.00	e0.00	e0.00	e0.00	---	---	---	---
26	17	2.3	0.00	0.00	e0.00	e0.00	e0.00	e0.00	---	---	---	---
27	12	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.00	---	---	---	---
28	9.9	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.00	---	---	---	---
29	8.5	0.00	0.00	0.00	---	e0.00	e0.00	e0.00	---	---	---	---
30	8.2	0.00	0.00	0.00	---	e0.00	e0.00	e0.00	---	---	---	---
31	10	---	0.00	e0.00	---	e0.00	---	e0.00	---	---	---	---
Total	2,256.6	47.23	1.66	0.00	0.10	0.00	0.00	355.70	---	---	---	---
Mean	72.8	1.57	0.05	0.00	0.00	0.00	0.00	11.5	---	---	---	---
Max	340	14	1.4	0.00	0.10	0.00	0.00	72	---	---	---	---
Min	8.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---
Ac-ft	4,480	94	3.3	0.00	0.2	0.00	0.00	706	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	30.4	10.2	7.00	7.36	8.29	8.68	5.91	6.57	33.6	59.0	60.1	55.9
Max	93.0	43.3	60.5	62.4	130	72.9	27.8	43.4	132	128	134	142
(WY)	(1996)	(2003)	(1998)	(1998)	(1998)	(1998)	(1987)	(1991)	(2005)	(2005)	(1995)	(2006)
Min	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.90	27.5	12.7
(WY)	(2008)	(2007)	(2007)	(2007)	(2007)	(2007)	(1999)	(1999)	(2007)	(2000)	(2000)	(1990)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Years 1987 - 2013	
Annual total	8,067.29			
Annual mean	22.0		24.3	
Highest annual mean			50.1	1998
Lowest annual mean			9.37	2007
Highest daily mean	340	Oct 8	1,060	Aug 25, 1995
Lowest daily mean	0.00	Jan 1	0.00	Jun 3, 1988
Annual seven-day minimum	0.00	Jan 1	0.00	Jun 13, 1988
Maximum peak flow			1,420	Aug 25, 1995
Maximum peak stage			5.10	Aug 25, 1995
Annual runoff (ac-ft)	16,000		17,610	
10 percent exceeds	69		66	
50 percent exceeds	0.00		6.2	
90 percent exceeds	0.00		0.00	

