

Water-Data Report 2008

02312664 FENNEY SPRING POOL NEAR COLEMAN, FL

Tampa Bay Basin
Withlacoochee Subbasin

LOCATION.--Lat 28°47'42", long 82°02'19" referenced to North American Datum of 1927, Sumter County, FL, Hydrologic Unit 03100208, 2.07 mi east of US Hwy 301 and 0.29 mi south of east CR468.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 2006 to December 2008 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (USGS Tampa DGPS TBM).

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum measured discharge, 28.4 ft³/s, Sept. 10, 2008, gage height 53.99 ft; maximum gage height, 54.86 ft, Aug. 28, 2008; minimum measured discharge, 0.18 ft³/s, Mar. 21, 2007, gage height 52.56 ft; minimum gage height, 51.48 ft, June 1, 2007.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum measured discharge, 95.5 ft³/s, Nov. 22, 1960, gage height 0.43 ft, datum then in use; minimum, 0 ft³/s, Dec. 16, 1981, gage height not noted.

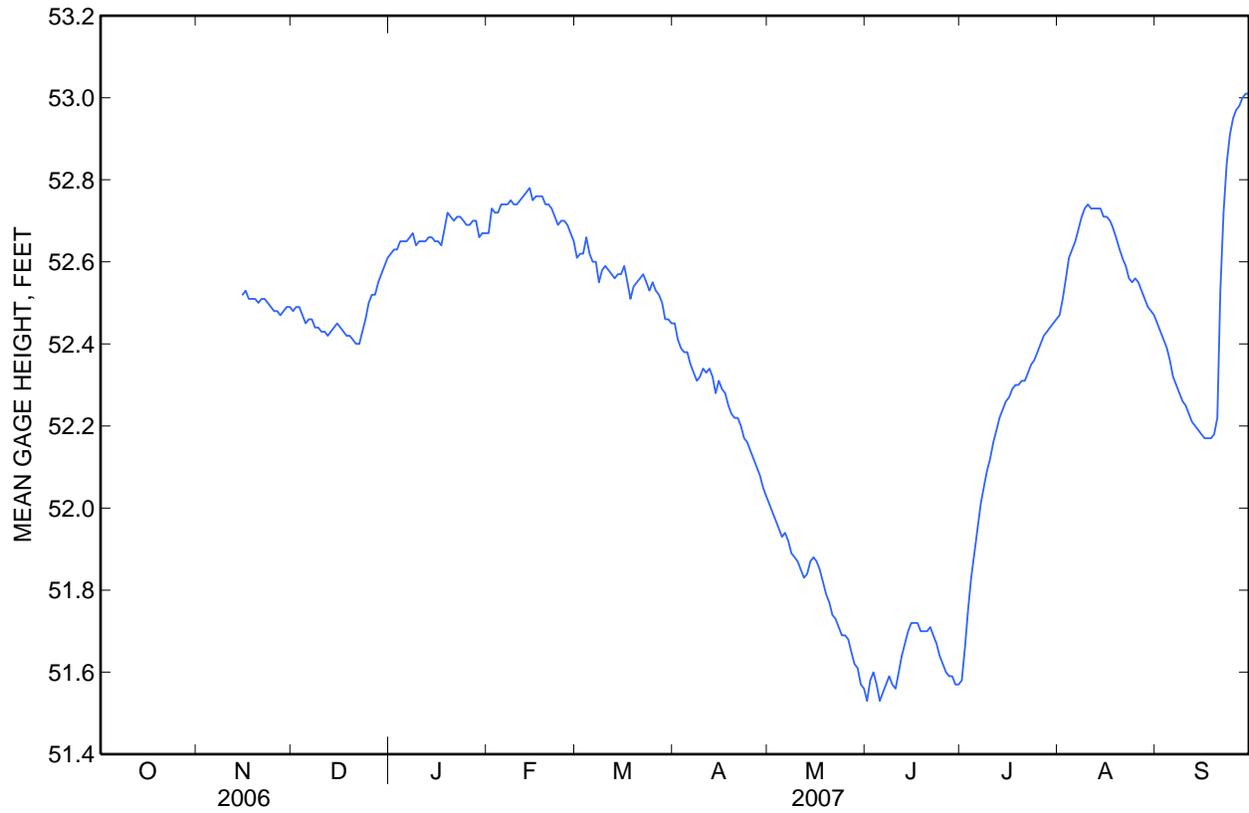
EXTREMES FOR CURRENT YEAR.--Maximum measured discharge, 28.4 ft³/s, Sept. 10, 2008, gage height 53.99; maximum gage height, 54.86 ft, Aug. 28, 2008; minimum measured discharge, 8.90 ft³/s, July 1, 2008, gage height 53.51 ft; minimum gage height, 52.76 ft, June 10, 2008.

02312664 FENNEY SPRING POOL NEAR COLEMAN, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	52.48	52.62	52.67	52.61	52.45	52.01	51.53	51.58	52.47	52.45
2	---	---	52.49	52.63	52.73	52.62	52.41	51.99	51.58	51.66	52.51	52.43
3	---	---	52.49	52.63	52.72	52.62	52.39	51.97	51.60	51.75	52.56	52.41
4	---	---	52.47	52.65	52.72	52.66	52.38	51.95	51.57	51.83	52.61	52.39
5	---	---	52.45	52.65	52.74	52.62	52.38	51.93	51.53	51.89	52.63	52.36
6	---	---	52.46	52.65	52.74	52.60	52.35	51.94	51.55	51.95	52.65	52.32
7	---	---	52.46	52.66	52.74	52.60	52.33	51.92	51.57	52.01	52.68	52.30
8	---	---	52.44	52.67	52.75	52.55	52.31	51.89	51.59	52.05	52.71	52.28
9	---	---	52.44	52.64	52.74	52.58	52.32	51.88	51.57	52.09	52.73	52.26
10	---	---	52.43	52.65	52.74	52.59	52.34	51.87	51.56	52.12	52.74	52.25
11	---	---	52.43	52.65	52.75	52.58	52.33	51.85	51.60	52.16	52.73	52.23
12	---	---	52.42	52.65	52.76	52.57	52.34	51.83	51.64	52.19	52.73	52.21
13	---	---	52.43	52.66	52.77	52.56	52.32	51.84	51.67	52.22	52.73	52.20
14	---	---	52.44	52.66	52.78	52.57	52.28	51.87	51.70	52.24	52.73	52.19
15	---	52.52	52.45	52.65	52.75	52.57	52.31	51.88	51.72	52.26	52.71	52.18
16	---	52.53	52.44	52.65	52.76	52.59	52.29	51.87	51.72	52.27	52.71	52.17
17	---	52.51	52.43	52.64	52.76	52.55	52.28	51.85	51.72	52.29	52.70	52.17
18	---	52.51	52.42	52.68	52.76	52.51	52.25	51.82	51.70	52.30	52.68	52.17
19	---	52.51	52.42	52.72	52.74	52.54	52.23	51.79	51.70	52.30	52.66	52.18
20	---	52.50	52.41	52.71	52.74	52.55	52.22	51.77	51.70	52.31	52.63	52.22
21	---	52.51	52.40	52.70	52.73	52.56	52.22	51.74	51.71	52.31	52.61	52.53
22	---	52.51	52.40	52.71	52.71	52.57	52.20	51.73	51.69	52.33	52.59	52.72
23	---	52.50	52.43	52.71	52.69	52.55	52.17	51.71	51.67	52.35	52.56	52.84
24	---	52.49	52.46	52.70	52.70	52.53	52.16	51.69	51.64	52.36	52.55	52.91
25	---	52.48	52.50	52.69	52.70	52.55	52.14	51.69	51.62	52.38	52.56	52.95
26	---	52.48	52.52	52.69	52.69	52.53	52.12	51.68	51.60	52.40	52.55	52.97
27	---	52.47	52.52	52.70	52.67	52.52	52.10	51.65	51.59	52.42	52.53	52.98
28	---	52.48	52.55	52.70	52.65	52.50	52.08	51.62	51.59	52.43	52.51	53.00
29	---	52.49	52.57	52.66	---	52.46	52.05	51.61	51.57	52.44	52.49	53.01
30	---	52.49	52.59	52.67	---	52.46	52.03	51.57	51.57	52.45	52.48	53.01
31	---	---	52.61	52.67	---	52.45	---	51.56	---	52.46	52.47	---
Mean	---	---	52.47	52.67	52.73	52.56	52.26	51.81	51.63	52.19	52.62	52.48
Max	---	---	52.61	52.72	52.78	52.66	52.45	52.01	51.72	52.46	52.74	53.01
Min	---	---	52.40	52.62	52.65	52.45	52.03	51.56	51.53	51.58	52.47	52.17

02312664 FENNEY SPRING POOL NEAR COLEMAN, FL—Continued



**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

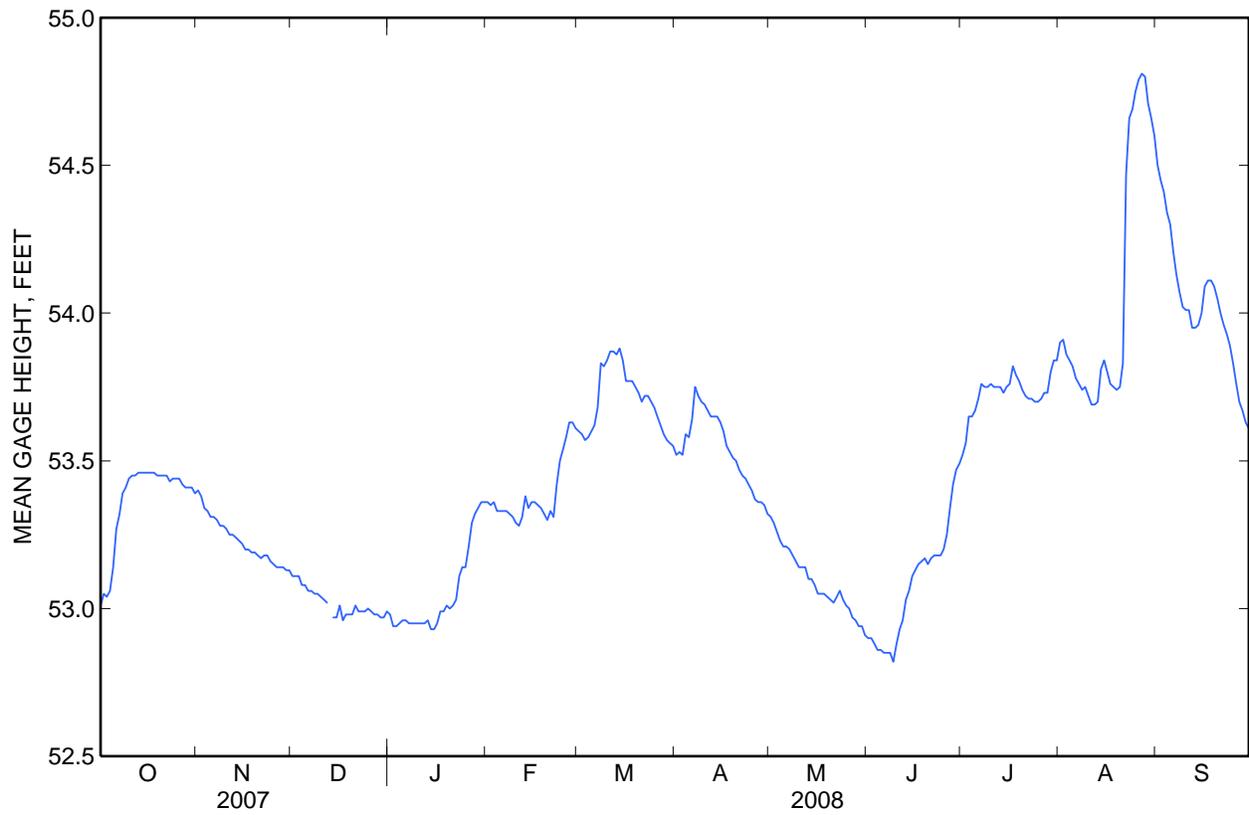
Date	Discharge, in ft³/s	Gage height, in ft
Oct 8, 2006	2.40	---
Nov 14, 2006	0.36	52.56
Jan 18, 2007	0.80	52.71
Mar 21, 2007	0.18	52.56
Aug 16, 2007	0.85	52.72

02312664 FENNEY SPRING POOL NEAR COLEMAN, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	53.01	53.40	53.11	52.98	53.36	53.60	53.52	53.31	52.90	53.52	53.90	54.50
2	53.05	53.38	53.11	52.94	53.35	53.59	53.53	53.29	52.90	53.56	53.91	54.45
3	53.04	53.34	53.11	52.94	53.36	53.57	53.52	53.26	52.88	53.65	53.86	54.41
4	53.06	53.33	53.08	52.95	53.33	53.58	53.59	53.23	52.86	53.65	53.84	54.34
5	53.14	53.31	53.08	52.96	53.33	53.60	53.58	53.21	52.86	53.67	53.82	54.30
6	53.27	53.31	53.06	52.96	53.33	53.62	53.64	53.21	52.85	53.71	53.78	54.21
7	53.32	53.30	53.06	52.95	53.33	53.68	53.75	53.20	52.85	53.76	53.76	54.13
8	53.39	53.28	53.05	52.95	53.32	53.83	53.72	53.18	52.85	53.75	53.74	54.07
9	53.41	53.28	53.05	52.95	53.31	53.82	53.70	53.16	52.82	53.75	53.75	54.02
10	53.44	53.27	53.04	52.95	53.29	53.84	53.69	53.14	52.88	53.76	53.72	54.01
11	53.45	53.25	53.03	52.95	53.28	53.87	53.67	53.14	52.93	53.75	53.69	54.01
12	53.45	53.25	53.02	52.95	53.31	53.87	53.65	53.14	52.96	53.75	53.69	53.95
13	53.46	53.24	---	52.96	53.38	53.86	53.65	53.10	53.03	53.75	53.70	53.95
14	53.46	53.23	52.97	52.93	53.34	53.88	53.65	53.10	53.06	53.73	53.81	53.96
15	53.46	53.22	52.97	52.93	53.36	53.84	53.63	53.08	53.11	53.75	53.84	54.00
16	53.46	53.20	53.01	52.95	53.36	53.77	53.60	53.05	53.13	53.76	53.80	54.09
17	53.46	53.20	52.96	52.99	53.35	53.77	53.55	53.05	53.15	53.82	53.76	54.11
18	53.46	53.19	52.98	52.99	53.34	53.77	53.53	53.05	53.16	53.79	53.75	54.11
19	53.45	53.19	52.98	53.01	53.32	53.75	53.51	53.04	53.17	53.77	53.74	54.09
20	53.45	53.18	52.98	53.00	53.30	53.73	53.50	53.03	53.15	53.74	53.75	54.05
21	53.45	53.17	53.01	53.01	53.33	53.70	53.47	53.02	53.17	53.72	53.83	54.00
22	53.45	53.18	52.99	53.03	53.31	53.72	53.45	53.04	53.18	53.71	54.47	53.96
23	53.43	53.18	52.99	53.11	53.42	53.72	53.44	53.06	53.18	53.71	54.66	53.93
24	53.44	53.16	52.99	53.14	53.50	53.70	53.42	53.03	53.18	53.70	54.69	53.89
25	53.44	53.15	53.00	53.14	53.54	53.68	53.40	53.01	53.20	53.70	54.75	53.83
26	53.44	53.14	52.99	53.21	53.58	53.65	53.37	53.00	53.25	53.71	54.79	53.76
27	53.42	53.14	52.98	53.29	53.63	53.62	53.36	52.97	53.34	53.73	54.81	53.70
28	53.41	53.14	52.98	53.32	53.63	53.59	53.36	52.96	53.42	53.73	54.80	53.67
29	53.41	53.13	52.97	53.34	53.61	53.57	53.35	52.94	53.47	53.80	54.71	53.63
30	53.41	53.13	52.97	53.36	---	53.56	53.32	52.94	53.49	53.84	54.66	53.61
31	53.39	---	52.99	53.36	---	53.55	---	52.91	---	53.84	54.60	---
Mean	53.37	53.23	---	53.05	53.39	53.71	53.54	53.09	53.08	53.73	54.08	54.02
Max	53.46	53.40	---	53.36	53.63	53.88	53.75	53.31	53.49	53.84	54.81	54.50
Min	53.01	53.13	---	52.93	53.28	53.55	53.32	52.91	52.82	53.52	53.69	53.61

02312664 FENNEY SPRING POOL NEAR COLEMAN, FL—Continued



**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft³/s	Gage height, in ft
Oct 17, 2007	10.1	53.46
Dec 13, 2007	3.07	52.97
Mar 20, 2008	15.5	53.73
Jul 1, 2008	8.90	53.51
Sep 10, 2008	28.4	53.99

02312664 FENNEY SPRING POOL NEAR COLEMAN, FL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 2007 to December 2008 (discontinued).

REMARKS.--Water samples were collected from main spring vent at a depth of approximately 15 ft. Samples were analyzed for major ions, DOC, water isotopes, and alkalinity.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (90095)	Specif- ic conduc- tance, wat unf lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alka- linity, wat flt inf tit field, mg/L as CaCO3 (39086)
Jul 30...	1400	762	.2	7.5	293	294	23.3	50.7	2.49	.63	4.33	135	134

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Bromide water, fltrd, mg/L (71870)	Chlor- ide, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Organic carbon, water, fltrd, mg/L (00681)	Stront- ium, water, fltrd, µg/L (01080)	Sr-87/ Sr-86 ratio, water, fltrd, per mil (75978)
Jul 30...	.02	7.72	8.85	5.60	E.06	.053	.14	<.002	.087	.08	.9	76.8	.70789

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006
TO SEPTEMBER 2007**

Part 3 of 3

[Remark codes: <, less than;
E, estimated.]

Date	Deu- terium/ Protium ratio, water, unfltrd per mil (82082)	O-18/ O-16 ratio, water, unfltrd per mil (82085)
Jul 30...	-15.72	-3.11