Water-Data Report 2013

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.

Tampa Bay Basin
Hillsborough Subbasin

LOCATION.--Lat 28°09′00″, long 82°13′55″ referenced to North American Datum of 1927, in SW ¼ sec.8, T.27 S., R.21 E., Hillsborough County, FL, Hydrologic Unit 03100205, on left bank 20 ft upstream from footbridge in Hillsborough River State Park, 1.2 mi downstream from Blackwater Creek, 6.5 mi southwest of Zephyrhills, and 40 mi upstream from mouth.

DRAINAGE AREA.--220 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1234: Drainage area. WRD FL-93-3A: 1992 (M)(m).

GAGE.--Water-stage recorder. Datum of gage is 33.28 ft above National Geodetic Vertical Datum of 1929 and 32.45 ft above North American Vertical Datum of 1988. Prior to Mar. 22, 1963, nonrecording gage at site 40 ft downstream at same datum; Mar. 22, 1963 to Aug. 1, 1995, at site 40 ft downstream at same datum.

COOPERATION.--This gage is monitored in cooperation with Southwest Florida Water Management District.

REMARKS.--Records good.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	294	121	94	107	81	77	69	66	54	316	251	270
2	287	119	93	104	81	77	68	81	72	320	224	245
3	500	118	93	102	81	77	67	90	65	331	256	218
4	715	118	93	104	80	76	69	87	61	360	263	215
5	975	116	91	105	79	76	71	78	61	459	317	296
6	920	115	91	108	78	75	68	72	106	522	294	318
7	835	114	91	103	77	74	69	66	147	492	275	467
8	704	113	91	103	76	73	69	64	159	405	260	465
9	644	110	93	101	75	73	67	60	189	306	278	397
10	581	109	95	99	74	73	66	58	208	244	277	335
11	515	109	98	97	74	74	65	57	206	210	243	281
12	457	108	99	96	74	76	66	57	199	201	213	240
13	408	107	104	94	77	77	66	55	185	195	187	289
14	372	106	107	92	80	75	68	53	157	244	169	287
15	338	106	107	90	84	75	67	51	150	277	158	339
16	297	107	104	89	88	73	64	50	186	277	145	309
17	267	107	102	90	87	71	62	49	160	268	135	279
18	247	106	100	91	85	71	60	48	153	286	143	264
19	227	106	98	92	84	71	65	47	150	389	177	245
20	209	106	97	92	83	71	69	48	152	389	169	224
21	190	104	101	94	82	72	77	50	160	462	156	205
22	177	103	103	92	81	72	74	49	181	526	189	184
23	167	100	104	88	80	74	71	50	175	515	344	219
24	157	99	102	86	78	79	69	50	158	475	398	533
25	150	97	100	85	78	85	68	55	148	539	487	690
26	148	96	101	85	79	79	68	53	141	676	419	739
27	142	95	102	84	79	73	66	51	222	609	518	699
28	136	95	102	84	77	70	64	50	343	471	417	622
29	131	94	117	83	---	69	61	50	348	403	337	588
30	126	94	116	82	---	71	70	50	332	335	290	552
31	122	---	111	83	---	70	---	51	---	281	301	---
Total	11,438	3,198	3,100	2,905	2,232	2,299	2,023	1,796	5,028	11,783	8,290	11,014
Mean	369	107	100	93.7	79.7	74.2	67.4	57.9	168	380	267	367
Max	975	121	117	108	88	85	77	90	348	676	518	739
Min	122	94	91	82	74	69	60	47	54	195	135	184
Med	287	106	100	92	79	74	68	53	158	360	260	292
Cfsm	1.68	0.48	0.45	0.43	0.36	0.34	0.31	0.26	0.76	1.73	1.22	1.67
In.	1.93	0.54	0.52	0.49	0.38	0.39	0.34	0.30	0.85	1.99	1.40	1.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	251	129	163	171	176	254	166	97.0	174	298	420	519
Max	944	512	2,234	892	1,247	2,093	942	333	849	1,959	1,468	2,280
(WY)	(1960)	(1998)	(1998)	(2003)	(1998)	(1960)	(1941)	(1957)	(1959)	(1945)	(1945)	(1960)
Min	57.4	42.1	40.4	39.6	37.3	45.8	43.7	30.5	33.0	57.5	83.0	90.2
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2009)	(2000)	(2001)	(2000)	(2000)	(1956)	(2008)

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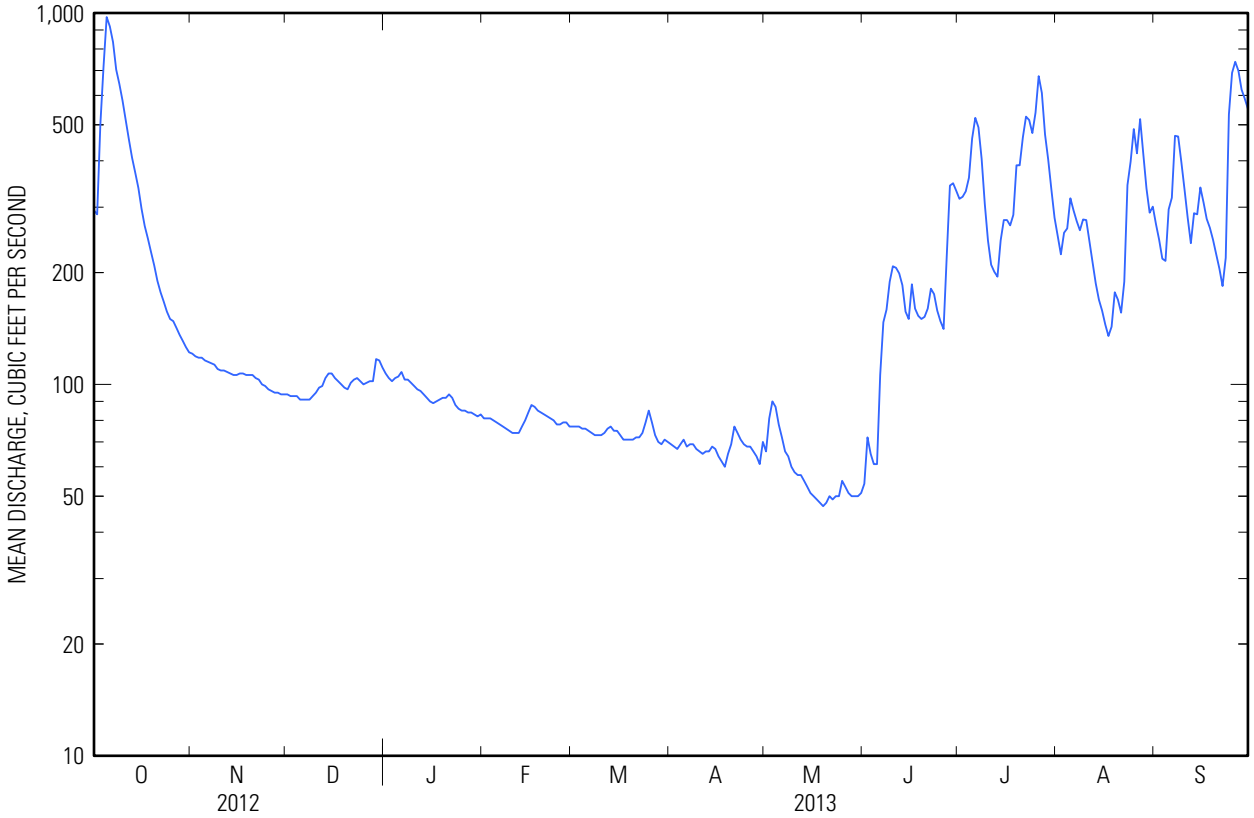
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1940 - 2013	
Annual total	84,150		65,106			
Annual mean	230		178		235	
Highest annual mean					745	1960
Lowest annual mean					64.9	2000
Highest daily mean	1,650	Jul 18	975	Oct 5	12,300	Mar 18, 1960
Lowest daily mean	39	May 26	47	May 19	27	Jun 5, 2000
Annual seven-day minimum	40	May 21	49	May 16	28	Jun 4, 2000
Maximum peak flow			1,000	Oct 5	12,600	Mar 18, 1960
Maximum peak stage			6.07	Oct 5	15.33	Mar 18, 1960
Annual runoff (cfsm)	1.05		0.811		1.07	
Annual runoff (inches)	14.23		11.01		14.52	
10 percent exceeds	596		404		500	
50 percent exceeds	95		103		112	
90 percent exceeds	48		66		64	



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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	2.53	1.33	1.11	1.23	1.00	0.96	0.89	0.86	0.82	2.71	2.26	2.38
2	2.49	1.32	1.11	1.20	1.00	0.96	0.88	1.00	1.00	2.73	2.08	2.22
3	3.68	1.31	1.11	1.19	1.00	0.96	0.87	1.08	0.93	2.80	2.29	2.04
4	4.76	1.31	1.11	1.20	1.00	0.96	0.89	1.05	0.89	2.96	2.34	2.02
5	5.95	1.29	1.09	1.21	0.98	0.95	0.90	0.98	0.89	3.50	2.68	2.55
6	5.71	1.29	1.09	1.23	0.97	0.94	0.88	0.93	1.28	3.83	2.53	2.68
7	5.32	1.28	1.09	1.20	0.96	0.93	0.88	0.88	1.63	3.67	2.41	3.53
8	4.71	1.27	1.10	1.20	0.95	0.93	0.88	0.86	1.71	3.21	2.31	3.51
9	4.43	1.25	1.11	1.18	0.95	0.93	0.87	0.84	1.93	2.64	2.43	3.14
10	4.11	1.24	1.13	1.16	0.94	0.93	0.86	0.81	2.06	2.24	2.42	2.78
11	3.77	1.23	1.15	1.14	0.94	0.93	0.85	0.81	2.05	2.01	2.21	2.45
12	3.47	1.23	1.16	1.14	0.94	0.96	0.86	0.81	2.00	1.95	2.00	2.19
13	3.20	1.22	1.21	1.12	0.97	0.96	0.86	0.79	1.89	1.91	1.82	2.49
14	2.99	1.21	1.23	1.10	0.99	0.94	0.88	0.78	1.69	2.23	1.69	2.49
15	2.80	1.21	1.23	1.08	1.03	0.94	0.87	0.77	1.63	2.44	1.61	2.80
16	2.55	1.22	1.21	1.08	1.06	0.93	0.84	0.76	1.89	2.45	1.51	2.63
17	2.36	1.21	1.18	1.08	1.06	0.91	0.82	0.75	1.70	2.39	1.44	2.44
18	2.23	1.21	1.17	1.09	1.04	0.90	0.80	0.75	1.65	2.50	1.50	2.34
19	2.10	1.21	1.15	1.10	1.03	0.91	0.85	0.74	1.62	3.10	1.75	2.22
20	1.98	1.21	1.14	1.10	1.02	0.91	0.89	0.76	1.63	3.10	1.69	2.08
21	1.85	1.19	1.18	1.12	1.01	0.92	0.97	0.78	1.70	3.50	1.59	1.95
22	1.76	1.18	1.20	1.10	1.00	0.92	0.94	0.77	1.85	3.84	1.82	1.80
23	1.68	1.16	1.21	1.07	0.99	0.94	0.91	0.78	1.80	3.78	2.83	2.03
24	1.61	1.16	1.19	1.05	0.98	0.98	0.89	0.78	1.67	3.57	3.13	3.86
25	1.55	1.14	1.17	1.04	0.97	1.03	0.88	0.83	1.60	3.89	3.63	4.64
26	1.53	1.13	1.18	1.03	0.98	0.98	0.88	0.81	1.54	4.58	3.26	4.88
27	1.49	1.13	1.18	1.03	0.98	0.93	0.86	0.78	2.10	4.25	3.79	4.69
28	1.45	1.12	1.19	1.03	0.97	0.90	0.84	0.78	2.87	3.55	3.25	4.32
29	1.41	1.12	1.31	1.02	---	0.89	0.81	0.78	2.90	3.17	2.79	4.15
30	1.38	1.12	1.31	1.01	---	0.91	0.90	0.78	2.80	2.78	2.51	3.97
31	1.35	---	1.26	1.02	---	0.90	---	0.78	---	2.45	2.57	---
Mean	2.85	1.22	1.17	1.11	0.99	0.94	0.87	0.83	1.72	3.02	2.33	2.91
Max	5.95	1.33	1.31	1.23	1.06	1.03	0.97	1.08	2.90	4.58	3.79	4.88
Min	1.35	1.12	1.09	1.01	0.94	0.89	0.80	0.74	0.82	1.91	1.44	1.80