Water-Data Report 2013

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL.

Tampa Bay Basin
Hillsborough Subbasin

LOCATION.--Lat 28°01′25″, long 82°25′40″ referenced to North American Datum of 1927, in NW ¼ sec.29, T.28 S., R.19 E., Hillsborough County, FL, Hydrologic Unit 03100205, on left bank at upstream side of control structure for Tampa Reservoir, at 30th Street, 5.4 mi northeast of Tampa, and 10 mi upstream from mouth.

DRAINAGE AREA.--624 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1234: Drainage area. WDR-US-2006:Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1945, at site 2.1 mi upstream at datum 0.66 ft higher.

COOPERATION.--Records of gate operation and diversions furnished by City of Tampa Water Department.

REMARKS.--Records poor. Flow regulated at station since Oct. 1, 1945, by manipulation of radial gates in spillways and dam by city of Tampa Water Department. Some augmentation at times by pumping from Sulphur Springs at Sulphur Springs into reservoir. Diversion from reservoir 1.3 mi upstream from station by city of Tampa for water supply. Diversion at times since May 1979 from basin into Tampa Bypass Canal during high flow. Period of record gage height at present datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 25.6 ft, Sept. 7, 1933, at former site and datum, from floodmarks, affected by backwater prior to failure of Tampa power dam, 2.1 mi below former gage. A discharge of 16,500 ft^3/s, was measured Sept. 9, 1933.

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COMBINED TOTAL
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	305	109	0.55	27	0.00	0.00	0.00	0.00	0.00	795	1,520	1,370
2	278	107	0.46	31	0.00	0.00	0.00	0.00	0.00	795	1,300	1,050
3	297	105	0.07	35	0.00	0.00	0.00	0.00	0.00	864	1,310	915
4	559	106	0.00	64	0.00	0.00	0.00	0.00	0.00	1,000	1,150	972
5	665	98	0.00	83	0.00	0.00	0.00	0.00	0.00	1,090	934	939
6	954	99	0.00	76	0.00	0.00	0.00	0.00	0.00	1,090	827	887
7	1,080	98	0.00	37	0.00	0.00	0.00	0.00	0.00	1,170	829	880
8	1,250	95	0.00	26	0.00	0.00	0.00	0.00	e18	1,180	910	947
9	1,030	91	0.00	29	0.00	0.00	0.00	0.00	e332	1,080	821	996
10	1,070	91	0.00	29	0.00	0.00	0.00	0.00	e502	1,060	916	1,010
11	1,120	90	0.00	26	0.00	0.00	0.00	0.00	e632	941	920	1,070
12	1,010	36	0.00	29	0.00	0.00	0.00	0.00	673	979	787	997
13	888	29	0.00	32	0.00	0.00	0.00	0.00	711	894	918	903
14	750	41	0.00	30	0.00	0.00	0.00	0.00	698	848	1,060	818
15	677	44	0.00	25	0.00	0.00	0.00	0.00	686	743	1,180	742
16	652	43	0.00	13	0.00	0.00	0.00	0.00	673	743	757	571
17	781	44	0.00	6.0	0.00	0.00	0.00	0.00	615	772	712	526
18	640	42	0.00	7.0	0.00	0.00	0.00	0.00	449	954	714	506
19	584	36	0.00	7.3	0.00	0.00	0.00	0.00	523	937	810	577
20	579	36	0.00	8.6	0.00	0.00	0.00	0.00	443	1,010	623	581
21	482	42	0.00	4.5	0.00	0.00	0.00	0.00	504	1,110	527	582
22	423	41	0.00	1.3	0.00	0.00	0.00	0.00	451	1,010	515	579
23	345	45	0.07	0.15	0.00	0.00	0.00	0.00	390	1,200	665	593
24	369	44	0.15	0.00	0.00	0.00	0.00	0.00	312	1,180	817	744
25	353	42	0.57	0.00	0.00	0.00	0.00	0.00	302	1,320	980	1,020
26	235	34	6.2	0.00	0.00	0.00	0.00	0.00	394	1,310	1,330	1,070
27	197	28	13	0.00	0.00	0.00	0.00	0.00	464	1,280	1,520	1,390
28	204	23	39	0.00	0.00	0.00	0.00	0.00	413	1,450	1,610	1,670
29	188	5.8	98	0.00	---	0.00	0.00	0.00	388	1,380	1,610	1,750
30	138	0.34	52	0.00	---	0.00	0.00	0.00	574	1,530	1,490	1,770
31	105	---	43	0.00	---	0.00	---	0.00	---	1,520	1,480	---
Mean	587	58.2	8.16	20.2	0.00	0.00	0.00	0.00	372	1,072	1,017	948
Max	1,250	109	98	83	0.00	0.00	0.00	0.00	711	1,530	1,610	1,770
Min	105	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	743	515	506

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	233	36.5	87.3	90.5	75.3	142	141	25.7	152	473	666	512
Max	741	108	949	820	248	633	656	212	739	1,315	1,897	948
(WY)	(2005)	(2003)	(2003)	(2003)	(2004)	(2010)	(2011)	(2010)	(2003)	(2003)	(2003)	(2013)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	25.3
(WY)	(2009)	(2007)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2006)	(2006)	(2008)

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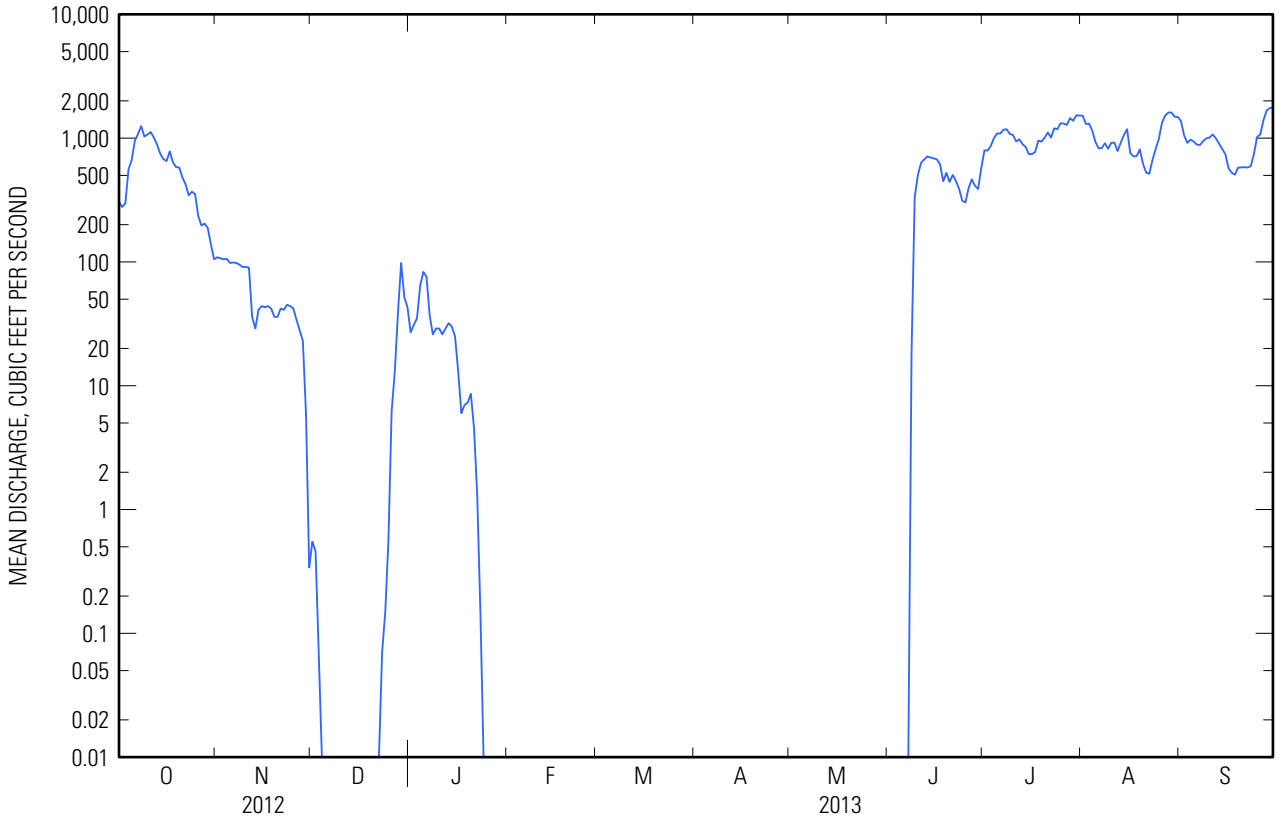
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2002 - 2013	
Annual mean	323		343		221	
Highest annual mean					689	2003
Lowest annual mean					16.8	2007
Highest daily mean	1,740	Aug 21	1,770	Sep 30	2,640	Jun 24, 2003
Lowest daily mean	0.00	Jan 1	0.00	Dec 4	0.00	Oct 11, 2001
Annual seven-day minimum	0.00	Jan 1	0.00	Dec 4	0.00	Nov 4, 2001
10 percent exceeds	1,160		1,070		827	
50 percent exceeds	0.00		29		11	
90 percent exceeds	0.00		0.00		0.00	



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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	22.25	22.60	22.47	22.51	22.15	21.56	21.42	20.98	20.29	22.10	22.13	21.90
2	22.20	22.60	22.47	22.53	22.11	21.55	21.37	21.07	20.77	22.02	22.01	22.00
3	22.42	22.59	22.45	22.54	22.08	21.53	21.30	21.05	20.82	22.09	22.08	22.17
4	22.48	22.59	22.42	22.57	22.02	21.51	21.32	20.99	20.89	22.04	21.98	22.00
5	22.43	22.57	22.41	22.53	21.96	21.46	21.38	20.96	20.98	22.11	22.04	22.10
6	22.15	22.57	22.40	22.49	21.89	21.43	21.41	20.87	21.43	22.10	21.98	21.93
7	22.23	22.57	22.38	22.47	21.81	21.40	21.39	20.79	21.89	22.13	22.01	22.03
8	22.32	22.57	22.36	22.50	21.72	21.38	21.36	20.77	22.21	21.99	22.03	22.11
9	22.16	22.56	22.36	22.51	21.65	21.35	21.29	20.74	22.53	22.03	22.06	22.12
10	22.49	22.55	22.34	22.53	21.58	21.33	21.23	20.71	22.59	22.00	22.15	22.16
11	22.44	22.54	22.35	22.53	21.49	21.29	21.17	20.66	22.53	21.98	22.17	22.10
12	22.34	22.55	22.35	22.54	21.45	21.25	21.11	20.64	22.52	22.05	22.14	21.95
13	22.37	22.59	22.34	22.55	21.43	21.24	21.09	20.53	22.56	21.99	22.40	22.02
14	22.39	22.62	22.34	22.54	21.51	21.21	21.05	20.41	22.57	21.95	22.28	21.99
15	22.30	22.63	22.33	22.52	21.58	21.17	21.01	20.34	22.56	22.00	22.17	21.88
16	22.48	22.63	22.35	22.53	21.61	21.13	20.94	20.26	22.59	22.02	22.05	21.91
17	22.43	22.63	22.35	22.51	21.64	21.11	20.84	20.14	22.56	22.11	22.09	21.91
18	22.49	22.63	22.35	22.52	21.65	21.08	20.76	20.03	22.54	22.15	22.06	22.10
19	22.50	22.61	22.36	22.52	21.61	21.02	20.78	19.93	22.53	21.99	22.04	22.08
20	22.46	22.61	22.35	22.53	21.59	20.96	20.85	19.89	22.50	22.15	21.95	22.15
21	22.40	22.62	22.41	22.51	21.59	20.93	20.91	20.14	22.48	22.05	21.99	22.15
22	22.46	22.61	22.43	22.48	21.56	20.95	20.99	20.50	22.48	22.08	22.27	22.10
23	22.54	22.60	22.45	22.46	21.54	21.55	20.94	20.48	22.42	22.19	22.30	22.04
24	22.56	22.59	22.46	22.43	21.54	21.60	20.88	20.53	22.45	22.21	22.27	22.13
25	22.50	22.58	22.48	22.40	21.51	21.59	20.80	20.59	22.41	22.16	22.28	22.17
26	22.50	22.55	22.51	22.37	21.53	21.57	20.74	20.60	22.43	22.08	22.35	22.07
27	22.58	22.53	22.54	22.36	21.56	21.59	20.73	20.58	22.44	22.06	22.39	22.17
28	22.60	22.51	22.56	22.32	21.56	21.58	20.77	20.54	22.36	22.14	22.33	22.24
29	22.56	22.49	22.50	22.27	---	21.55	20.75	20.50	22.25	22.02	22.26	22.32
30	22.54	22.47	22.53	22.23	---	21.51	20.94	20.45	22.19	22.08	22.12	22.46
31	22.59	---	22.50	22.19	---	21.47	---	20.36	---	22.05	22.08	---
Mean	22.42	22.58	22.42	22.47	21.68	21.35	21.05	20.55	22.13	22.07	22.14	22.08
Max	22.60	22.63	22.56	22.57	22.15	21.60	21.42	21.07	22.59	22.21	22.40	22.46
Min	22.15	22.47	22.33	22.19	21.43	20.93	20.73	19.89	20.29	21.95	21.95	21.88

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CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--October 2001 to current year.

REVISED RECORDS.--WDR-US-2006, daily and monthly totals.

INSTRUMENTATION.--A 8-inch diameter, tipping bucket precipitation gage 15--minute-interval, mounted on top of the concrete gage house on left edge of the dam with the top of funnel 11 ft above the ground.

REMARKS.--Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service. Records of precipitation prior to October 1, 2001, not published but are available in files of the Geological Survey.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	---	0.53	0.04	0.00
2	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.20	---	0.35	0.11	0.00
3	0.58	0.00	0.00	0.15	0.00	0.00	0.06	0.00	---	0.28	0.40	0.04
4	0.35	0.00	0.00	0.06	0.00	0.00	0.55	0.00	---	0.73	0.21	1.36
5	0.63	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.60	0.09	0.00	0.30
6	0.14	0.04	0.00	0.01	0.00	0.03	0.00	0.00	2.29	0.05	0.21	0.01
7	0.03	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.04	1.64	0.05
8	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.03	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	0.00	0.01	0.00
10	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
11	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.29	0.00	0.00	0.00
12	0.00	0.00	0.06	0.00	0.00	0.23	0.00	0.00	0.00	0.13	0.00	0.73
13	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.02	0.00	0.03
14	0.00	0.00	0.00	0.00	0.41	0.00	0.01	0.00	0.00	0.41	0.51	0.16
15	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.26	0.01
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.09	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.18	0.48
18	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.45	0.00
19	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.00	1.59	0.36	0.01	0.01
20	0.00	0.00	0.26	0.00	0.00	0.12	0.05	0.44	0.00	0.88	0.07	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.04	2.43	0.46	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	3.22	0.05	0.00	0.82	0.00	0.47	0.25
23	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.62	0.01	0.93
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.79
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	1.22
26	0.00	0.00	0.48	0.00	0.39	0.00	0.00	0.00	2.07	0.06	0.44	0.09
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
29	0.00	0.00	0.05	0.00	---	0.00	0.00	0.00	1.03	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	1.54	0.01	3.33	0.00	0.31	0.00
31	0.00	---	0.00	0.08	---	0.00	---	0.00	---	1.19	0.00	---
Total	2.09	0.04	1.65	0.33	1.34	3.61	2.80	4.10	---	7.84	5.37	6.46