Water-Data Report 2012

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT

Connecticut Coastal Basin
Quinnipiac Subbasin

LOCATION.--Lat 41°27'00.95", long 72°50'28.59" referenced to North American Datum of 1983, New Haven County, CT, Hydrologic Unit 01100004, on right bank on Wilbur Cross Highway, 0.8 mi downstream from bridge on Quinnipiac St. in Wallingford, and 2 mi upstream from Wharton Brook.

DRAINAGE AREA.--115 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1930 to current year.

REVISED RECORDS.--WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 19.24 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 27, 1965, at datum 1.00 ft higher. Satellite telemetry at station.

REMARKS.--Records good, including those for periods of estimated daily discharges. The natural flow of the Quinnipiac River has been altered by numerous flow diversions. Flow regulated by Wolcott Reservoir, Broad Brook Reservoir, and by mills upstream. Diversion from Wolcott Reservoir for municipal supply of New Britain and diversion into the basin from Merimere and Elmere Reservoirs for municipal supply of Meriden.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 23	1115	1,320	7.43
Nov 30	0445	1,160	7.04
Dec 8	0600	*3,100	*10.05
Dec 28	1945	1,110	6.91
Apr 23	0830	2,110	8.85
Jun 2	1330	1,320	7.43
Aug 10	1945	1,030	6.70

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01196500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01196500.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	605	520	722	344	276	283	151	198	128	135	148	57
2	566	489	448	347	267	290	159	214	890	140	293	64
3	358	451	333	310	248	338	143	187	680	115	140	63
4	378	423	305	266	233	358	133	193	330	108	95	73
5	354	394	283	248	228	274	126	188	247	106	110	124
6	284	359	311	248	217	221	123	172	209	101	105	96
7	242	306	e624	256	212	208	120	162	180	98	95	72
8	224	284	e2,700	245	207	204	119	160	169	96	83	74
9	211	269	2,030	236	199	201	116	210	157	93	78	103
10	220	302	1,020	225	195	191	114	386	150	89	354	81
11	216	330	696	222	191	181	113	280	142	87	303	66
12	183	281	530	441	187	179	113	193	142	86	130	61
13	293	275	455	531	177	176	119	172	349	83	97	59
14	578	258	406	354	175	173	112	156	315	82	84	57
15	539	229	384	277	176	167	110	310	194	85	113	57
16	328	304	352	232	177	164	108	405	156	129	99	55
17	245	508	325	239	192	161	106	248	141	100	82	54
18	218	400	300	279	186	158	101	205	131	138	109	78
19	303	303	271	244	175	156	99	164	126	142	101	398
20	613	258	269	221	168	153	98	153	125	108	82	183
21	486	256	265	214	163	150	97	152	120	95	75	92
22	306	231	304	211	163	148	181	243	140	83	70	78
23	275	975	428	217	163	145	1,600	255	419	87	68	86
24	256	969	400	369	200	141	1,070	186	242	89	65	74
25	224	536	281	382	350	143	405	172	235	80	64	68
26	214	399	255	306	262	144	278	179	272	80	62	65
27	269	325	287	593	197	133	237	178	175	93	61	65
28	407	292	1,010	668	187	143	204	149	143	156	71	234
29	378	306	731	428	183	154	190	142	130	205	73	325
30	533	971	403	320	---	139	175	154	122	128	62	142
31	607	---	357	286	---	143	---	144	---	94	58	---
Total	10,913	12,203	17,485	9,759	5,954	5,819	6,820	6,310	6,959	3,311	3,430	3,104
Mean	352	407	564	315	205	188	227	204	232	107	111	103
Max	613	975	2,700	668	350	358	1,600	405	890	205	354	398
Min	183	229	255	211	163	133	97	142	120	80	58	54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	149	195	247	263	274	385	361	250	197	122	115	123
Max	735	658	657	890	630	792	1,169	756	920	357	447	563
(WY)	(2006)	(1956)	(1997)	(1979)	(2008)	(1953)	(1983)	(1989)	(1982)	(1972)	(2011)	(1938)
Min	45.5	47.6	57.9	52.0	81.9	163	107	88.1	61.4	37.5	27.1	41.7
(WY)	(1931)	(1966)	(1966)	(1966)	(2002)	(2002)	(1966)	(1941)	(1957)	(1966)	(1966)	(1986)

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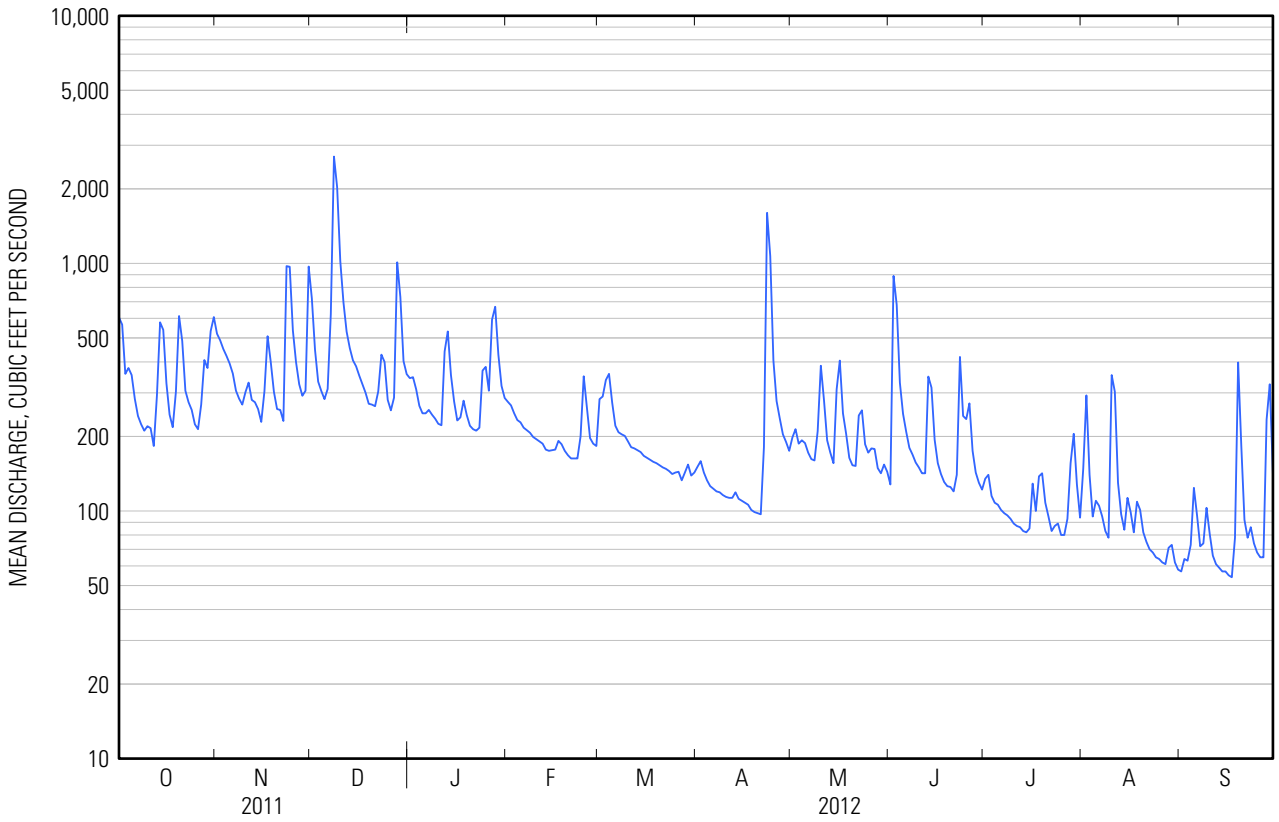
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1931 - 2012	
Annual total	143,010		92,067			
Annual mean	392		252		223	
Highest annual mean					398	2006
Lowest annual mean					84.6	1966
Highest daily mean	4,420	Mar 7	[e]2,700	Dec 8	7,210	Jun 6, 1982
Lowest daily mean	94	Jul 31	54	Sep 17	9.0	Nov 2, 1930
Annual seven-day minimum	105	Jul 25	58	Sep 11	16	Aug 28, 1966
Maximum peak flow			3,100	Dec 8	8,200	Jun 6, 1982
Maximum peak stage			10.05	Dec 8	14.02	Jun 6, 1982
Instantaneous low flow			52	Sep 17[a]	8.0	Nov 2, 1930
10 percent exceeds	694		428		430	
50 percent exceeds	269		192		156	
90 percent exceeds	138		82		62	

[e] Estimated.
[a] Also Sep. 18.