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Water-Data Report 2008

**04144500 SHIAWASSEE RIVER AT OWOSSO, MI**

Saginaw Basin  
Shiawassee Subbasin

LOCATION.--Lat 43°00'54", long 84°10'48" referenced to North American Datum of 1927, in SW ¼ sec.12, T.7 N., R.2 E., Shiawassee County, MI, Hydrologic Unit 04080203, on right bank on grounds of sewage-treatment plant, 1.5 mi north of Owosso.

DRAINAGE AREA.--538 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--March 1931 to current year. Gage-height records for flood seasons collected in this vicinity 1904, 1910-30 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1307: 1949(M). WSP 1337: 1932, 1934, 1936-38, 1944.

GAGE.--Water-stage recorder. Datum of gage is 707.25 ft above sea level. Prior to Oct. 15, 1933, at site 1.5 mi upstream at datum 5.46 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated below approximately 800 ft<sup>3</sup>/s by power plant at Shiawassee town prior to February 1953; occasional regulation at low stages since. Gage-height telemeter at station.

## 04144500 SHIAWASSEE RIVER AT OWOSSO, MI—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	112	207	e167	e416	629	498	1,750	274	123	151	104	64
2	114	195	e256	e390	600	430	1,390	273	124	184	99	61
3	133	188	e376	e182	579	893	1,130	288	127	484	93	89
4	169	183	e413	e216	546	1,480	1,140	294	129	469	88	134
5	204	181	e388	e377	676	1,180	1,170	290	149	446	92	85
6	184	180	e224	588	768	1,020	1,100	268	207	455	109	99
7	172	178	e217	1,410	e655	942	1,000	256	250	472	107	91
8	160	175	e206	1,810	733	789	829	246	465	426	95	80
9	155	172	e196	2,140	796	758	671	240	487	478	102	95
10	138	170	e192	1,770	674	724	610	233	473	388	95	127
11	131	165	e203	1,520	e480	680	928	237	491	275	91	186
12	125	161	e228	1,510	e444	657	1,230	226	501	229	87	260
13	107	156	e285	1,490	e459	692	1,290	216	514	201	85	387
14	90	158	e288	1,430	e506	766	1,160	220	616	184	81	1,270
15	88	158	e285	1,360	e490	890	1,020	260	553	168	76	2,470
16	95	161	e203	1,230	e454	857	936	305	496	213	72	1,950
17	90	164	e193	1,100	560	810	886	322	483	292	69	1,840
18	88	164	e224	896	1,250	799	863	288	379	241	67	1,860
19	227	165	e248	655	1,290	880	788	256	344	253	65	1,830
20	151	167	e232	372	1,010	866	676	240	292	278	64	1,600
21	121	199	e222	e367	895	824	563	223	215	265	61	1,430
22	120	292	332	e418	888	809	482	201	162	292	60	1,250
23	139	357	835	e405	829	798	464	182	157	288	104	1,060
24	129	363	774	e336	776	782	458	159	148	253	124	770
25	142	342	594	e305	717	748	448	144	133	221	88	584
26	156	307	519	e293	647	759	424	138	114	168	87	417
27	298	287	506	e293	584	705	398	136	108	132	84	386
28	344	271	432	e293	560	713	375	135	165	122	158	360
29	270	269	400	466	533	727	287	129	142	112	149	369
30	247	271	383	870	---	715	280	125	158	117	88	410
31	222	---	396	716	---	936	---	127	---	112	65	---
<b>Total</b>	4,921	6,406	10,417	25,624	20,028	25,127	24,746	6,931	8,705	8,369	2,809	21,614
<b>Mean</b>	159	214	336	827	691	811	825	224	290	270	90.6	720
<b>Max</b>	344	363	835	2,140	1,290	1,480	1,750	322	616	484	158	2,470
<b>Min</b>	88	156	167	182	444	430	280	125	108	112	60	61
<b>Cfsm</b>	0.30	0.40	0.62	1.54	1.28	1.51	1.53	0.42	0.54	0.50	0.17	1.34
<b>In.</b>	0.34	0.44	0.72	1.77	1.38	1.74	1.71	0.48	0.60	0.58	0.19	1.49

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	197	265	325	374	469	757	702	472	285	168	125	153
<b>Max</b>	1,442	985	922	1,066	1,728	1,682	2,060	1,950	1,051	868	578	922
<b>(WY)</b>	(1982)	(1993)	(1976)	(1993)	(1938)	(1948)	(1947)	(1956)	(1989)	(1994)	(1992)	(1975)
<b>Min</b>	32.6	52.1	56.6	66.9	65.5	119	162	119	34.0	24.0	13.2	25.0
<b>(WY)</b>	(1964)	(1964)	(1964)	(1940)	(1940)	(1964)	(1931)	(1958)	(1934)	(1934)	(1931)	(1931)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1931 - 2008	
<b>Annual total</b>	149,526		165,697			
<b>Annual mean</b>	410		453		359	
<b>Highest annual mean</b>					629	1993
<b>Lowest annual mean</b>					97.7	1964
<b>Highest daily mean</b>	1,840	Jun 5	2,470	Sep 15	5,920	Apr 6, 1947
<b>Lowest daily mean</b>	51	Aug 2	60	Aug 22	2.0	Jul 28, 1934
<b>Annual seven-day minimum</b>	53	Jul 31	65	Aug 16	7.7	Aug 11, 1936
<b>Maximum peak flow</b>			2,630	Sep 15	6,240	Apr 6, 1947
<b>Maximum peak stage</b>			7.25	Sep 15	10.35	Apr 6, 1947
<b>Instantaneous low flow</b>			59	Sep 3	0.20	Jul 27, 1934
<b>Annual runoff (cfsm)</b>	0.761		0.841		0.667	
<b>Annual runoff (inches)</b>	10.34		11.46		9.07	
<b>10 percent exceeds</b>	934		1,010		810	
<b>50 percent exceeds</b>	270		288		210	
<b>90 percent exceeds</b>	88		101		66	

