Water-Data Report 2013

03298500 SALT RIVER AT SHEPHERDSVILLE, KY

Lower Ohio-Salt Basin
Salt Subbasin

LOCATION.--Lat 37°59′06″, long 85°43′03″ referenced to North American Datum of 1927, Bullitt County, KY, Hydrologic Unit 05140102, on downstream side of bridge on State Highway 61 at Shepherdsville, 500 feet downstream from Louisville and Nashville Railroad bridge, 2.6 miles downstream from Floyds Fork, and at mile 22.9.

Auxiliary: Lat 38°00'11.88"N, long 85°40'57.06"W (from Google Earth on February 15, 2011) referenced to North American Datum of 1927, Bullitt County, KY, on the downstream right bank, about 50 feet from Hwy 44 near Shepherdsville, and about 2,200 feet upstream of the Salt River.

DRAINAGE AREA.--1,197 mi^2.

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WSP 893: 1937(M). WSP 1435: 1955: WSP 1705: Drainage area.

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 406.58 feet above NGVD of 1929. Prior to January 16, 1939, nonrecording gage at same site and datum. January 16, 1939 to May 21, 1962, water-stage recorder at same site and datum. May 22, 1962 to November 26, 1963, nonrecording gage at same site and datum. Prior to October 1, 1946, auxiliary nonrecording gages at various sites downstream from base gage. October 1, 1946 to October 16, 1969, auxiliary nonrecording gage 2.8 miles upstream. Since October 16, 1969 auxiliary gage is a water-stage recorder with telemetry, located at mouth of Floyds Fork 2.6 miles upstream.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and Kentucky Energy and Environment Cabinet.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated since January 1983 by Taylorsville Lake (station 03295597). Diversions for water supply by Shepherdsville and other municipalities.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 26, 1937, reached a stage of 47.3 feet, from floodmark (backwater from Ohio River).

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 03298500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/03298500.2013.pdf

03298500 SALT RIVER AT SHEPHERDSVILLE, KY—Continued

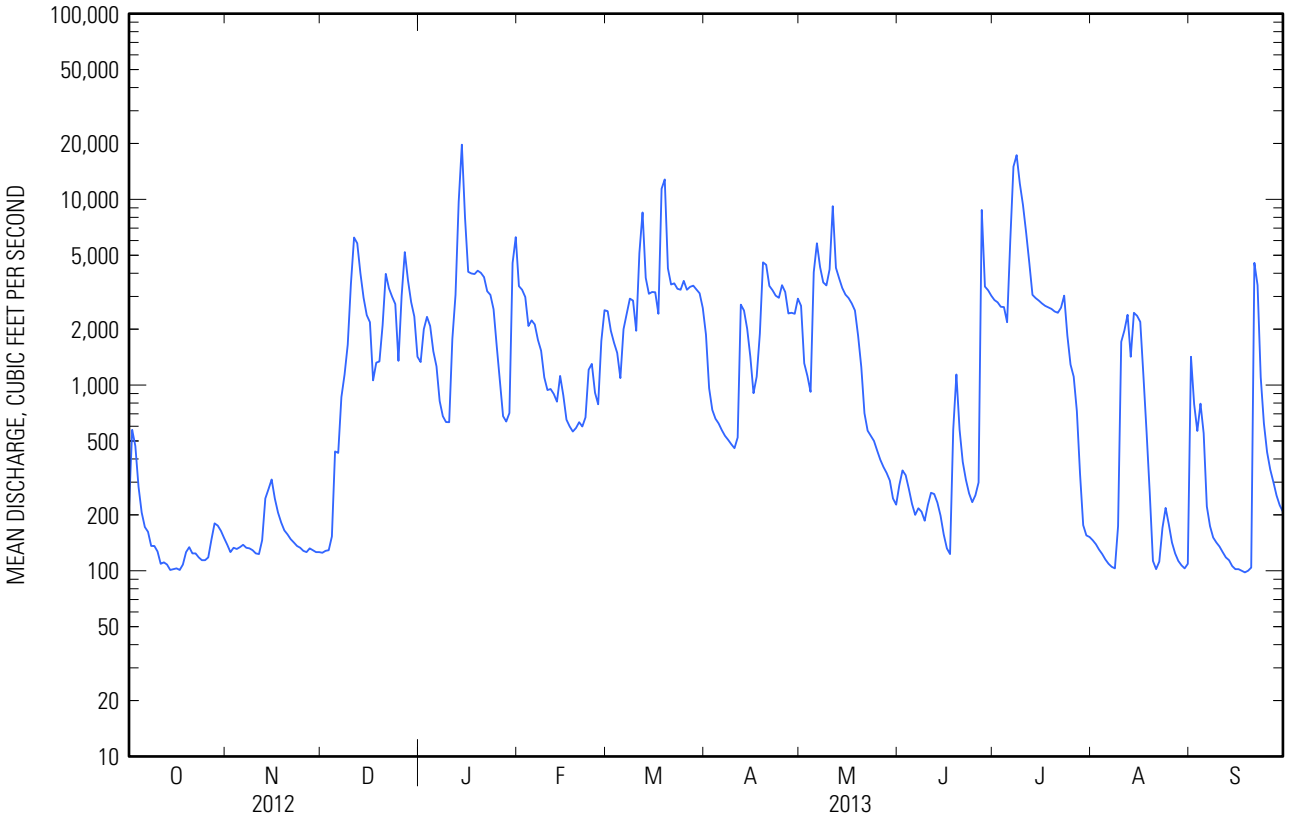
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	216	138	125	1,330	3,410	2,500	1,870	2,670	289	2,870	146	1,420
2	574	126	128	2,000	3,260	1,960	961	1,310	347	2,790	139	788
3	470	133	129	2,330	2,980	1,690	735	1,120	327	2,640	130	566
4	284	131	153	2,080	2,080	1,490	659	919	276	2,630	123	794
5	206	134	439	1,520	2,230	1,090	621	4,050	229	2,180	115	550
6	172	138	431	1,260	2,120	2,000	572	5,800	200	6,020	109	222
7	162	133	861	820	1,750	2,420	533	4,320	217	e15,000	105	174
8	136	132	e1,140	680	1,530	2,920	507	3,570	208	e17,300	103	151
9	136	129	e1,650	632	1,100	2,850	480	3,440	186	e12,200	174	142
10	127	124	e3,500	631	940	1,960	457	4,200	226	e9,330	1,710	135
11	109	123	e6,230	1,770	952	5,140	522	9,190	263	e6,620	1,970	126
12	111	146	e5,800	3,060	895	8,500	2,710	4,280	259	e4,550	2,390	118
13	108	245	e4,000	9,710	814	3,780	2,520	3,760	233	3,060	1,420	114
14	101	275	e2,950	19,700	1,120	3,100	2,010	3,330	198	2,940	2,450	106
15	102	310	2,380	7,960	881	3,170	1,420	3,070	e157	2,850	2,360	102
16	103	245	2,180	4,070	651	3,160	904	2,940	e132	2,750	2,190	102
17	101	206	1,060	3,990	599	2,420	1,110	2,750	e123	2,670	1,120	100
18	108	182	1,320	3,960	562	11,400	1,890	2,520	e575	2,620	555	98
19	126	165	1,340	4,130	587	12,800	4,580	1,840	1,140	2,570	261	100
20	134	157	2,100	4,020	631	4,250	4,440	1,250	576	2,490	113	104
21	124	148	3,970	3,810	598	3,480	3,420	705	386	2,450	102	4,550
22	124	142	3,320	3,200	670	3,530	3,240	568	309	2,610	112	3,450
23	118	136	2,990	3,060	1,210	3,300	3,030	e533	261	3,030	170	1,100
24	114	133	2,730	2,560	1,300	3,260	2,950	500	e234	1,850	218	622
25	114	128	1,350	1,620	910	3,640	3,450	444	e255	1,290	178	436
26	118	126	3,020	1,050	788	3,260	3,170	396	299	1,110	142	351
27	147	132	5,200	680	1,730	3,380	2,430	362	8,770	724	124	300
28	180	129	3,670	636	2,530	3,430	2,450	336	3,390	333	113	254
29	175	126	2,800	707	---	3,270	2,420	306	3,240	176	107	225
30	164	126	2,340	4,540	---	3,120	2,920	245	3,030	155	103	208
31	150	---	1,420	6,260	---	2,600	---	227	---	152	109	---
Total	5,114	4,698	70,726	103,776	38,828	114,870	58,981	70,951	26,335	119,960	19,161	17,508
Mean	165	157	2,281	3,348	1,387	3,705	1,966	2,289	878	3,870	618	584
Max	574	310	6,230	19,700	3,410	12,800	4,580	9,190	8,770	17,300	2,450	4,550
Min	101	123	125	631	562	1,090	457	227	123	152	102	98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	576	1,129	2,163	2,622	3,242	3,187	2,384	2,236	1,315	656	309	437
Max	3,416	3,344	6,329	6,485	12,370	11,410	7,952	5,942	5,192	3,870	1,052	3,386
(WY)	(2010)	(2012)	(1991)	(2005)	(1989)	(1997)	(2011)	(2011)	(1997)	(2013)	(2003)	(2006)
Min	25.9	48.1	236	335	996	873	377	201	38.9	63.6	29.9	30.6
(WY)	(1989)	(2000)	(2006)	(1986)	(1992)	(2010)	(1986)	(2000)	(1988)	(1994)	(2002)	(1999)

03298500 SALT RIVER AT SHEPHERDSVILLE, KY—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1984 - 2013	
Annual total	419,284		650,908			
Annual mean	1,146		1,783		1,680	
Highest annual mean					2,809	1997
Lowest annual mean					772	2001
Highest daily mean	13,000	Jan 27	19,700	Jan 14	65,600	Mar 2, 1997
Lowest daily mean	86	Sep 24	98	Sep 18	7.7	Jul 1, 1988
Annual seven-day minimum	94	Sep 18	102	Sep 14	9.3	Jun 26, 1988
Maximum peak flow			21,800	Jan 14	78,200	Mar 10, 1964
Maximum peak stage			20.41	Jan 14	41.50	Mar 11, 1964
Instantaneous low flow					44	Oct 1, 2010
10 percent exceeds	3,400		3,960		4,100	
50 percent exceeds	368		861		580	
90 percent exceeds	103		124		54