03565500 OOSTANAULA CREEK NEAR SANFORD, TN

LOCATION.--Lat 35°19'39", long 84°42'19", McMinn County, Hydrologic Unit 06020002, on right bank 20 ft downstream from highway bridge, 1.3 mi southeast of Sanford, 3.5 mi northeast of Calhoun, and at mile 5.7 county road, 1.5 mi west of Athens.

DRAINAGE AREA.--57.0 mi^2

PERIOD OF RECORD.--October 1954 to September 1989, November 2003 to October 2005.

GAGE.--Water-stage recorder. Datum of gage is 716.51 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft^3/s, Mar. 16, 1973, gage height, 1343 ft, from rating curve extended above 4,000 ft^3/s on basis of slope-area measurement of peak flow; minimum, 10 ft^3/s, Sept. 30, Nov. 7, 1985, result of bridge construction upstream.

EXTREMES FOR WATER YEARS 2004-2005.--Peak discharge greater than base discharge of 600 ft^3/s and maximum (*):

WATER YEAR 2004

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 7	1215	874	6.12	Sep 18	0415	*1,320	*7.79
Mar 7	0900	614	5.09				

Minimum discharge, 24 ft^3/s, Aug. 18, 19, 20.

WATER YEAR 2005

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 25	0915	*1,310	*7.78	Dec 10	1500	1,060	6.99
Dec 7	2015	1,270	7.68	Apr 3	0315	724	5.48

Minimum discharge, 27 ft^3/s, Sept. 24, 25, 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	88	96	100	94	92	57	46	56	33	50
2	---	---	82	92	96	102	88	62	40	59	31	36
3	---	---	77	90	99	129	84	79	40	56	30	34
4	---	---	98	89	96	107	83	62	55	48	28	32
5	---	---	131	192	90	100	80	58	43	47	28	30
6	---	---	107	275	490	435	78	57	39	44	34	29
7	---	---	95	147	789	478	75	55	38	49	29	29
8	---	---	89	124	382	216	71	54	38	43	27	41
9	---	---	84	116	243	178	67	53	37	40	27	42
10	---	---	126	111	203	158	66	51	37	38	27	34
11	---	---	199	103	177	142	66	50	36	37	26	32
12	---	---	120	97	172	132	67	50	35	50	28	30
13	---	---	104	92	169	123	112	49	35	47	32	30
14	---	---	115	89	149	119	131	48	35	40	28	29
15	---	---	122	86	154	114	98	47	35	37	26	28
16	---	---	106	82	236	131	85	47	48	35	26	42
17	---	---	179	79	178	133	78	48	38	35	26	931
18	---	---	156	84	154	113	76	47	87	47	25	1,010
19	---	---	126	97	143	108	73	45	44	41	25	212
20	---	---	113	85	135	103	71	44	38	35	25	132
21	---	98	106	80	131	104	69	43	37	33	33	108
22	---	83	100	77	123	98	67	43	82	32	58	94
23	---	77	97	75	116	93	65	43	57	33	33	84
24	---	76	120	73	112	91	65	41	60	35	31	77
25	---	88	114	144	108	88	64	40	59	31	30	72
26	---	77	100	351	105	87	65	40	134	32	32	68
27	---	76	94	174	105	85	68	39	59	34	29	64
28	---	109	92	136	99	83	61	39	52	36	27	62
29	---	128	89	120	97	82	59	39	80	32	33	60
30	---	99	109	112	---	96	58	41	54	30	35	57
31	---	---	113	105	---	110	---	44	---	30	109	---
TOTAL	---	---	3,451	3,673	5,251	4,232	2,282	1,515	1,518	1,242	1,011	3,579
MEAN	---	---	111	118	181	137	76.1	48.9	50.6	40.1	32.6	119
MAX	---	---	199	351	789	478	131	79	134	59	109	1,010
MIN	---	---	77	73	90	82	58	39	35	30	25	28
CFSM	---	---	1.95	2.08	3.18	2.40	1.33	0.86	0.89	0.70	0.57	2.09
IN.	---	---	2.25	2.40	3.43	2.76	1.49	0.99	0.99	0.81	0.66	2.34

03565500 OOSTANAULA CREEK NEAR SANFORD, TN—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004, BY WATER YEAR (WY)												
MEAN	40.1	58.5	96.4	133	162	186	141	97.4	61.0	55.3	39.3	39.7
MAX	210	220	299	355	420	591	370	639	197	305	108	140
(WY)	(1990)	(1958)	(1962)	(1974)	(1990)	(1973)	(1964)	(1984)	(1989)	(1967)	(1967)	(1977)
MIN	14.9	19.0	23.1	21.1	48.9	40.9	32.1	24.4	17.4	16.6	16.9	18.7
(WY)	(1989)	(1988)	(1959)	(1981)	(1988)	(1986)	(1986)	(1986)	(1988)	(1986)	(1986)	(1988)

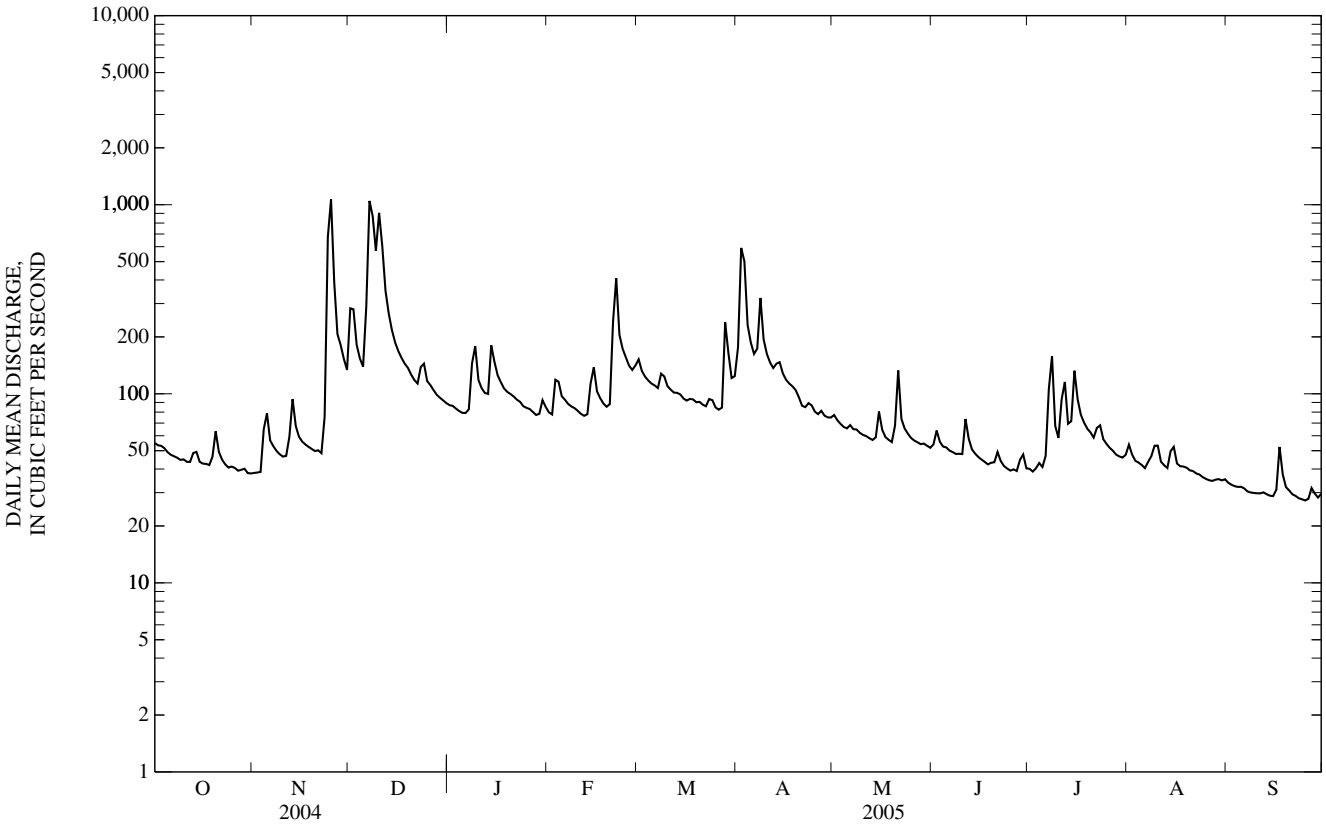
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	38	283	87	80	152	176	77	54	40	54	34
2	53	38	280	86	78	132	591	72	64	39	48	33
3	53	39	182	83	119	123	501	69	56	40	44	32
4	52	65	154	81	116	118	231	67	53	43	43	32
5	49	79	139	79	97	113	187	66	52	41	42	32
6	48	57	291	79	93	111	162	68	50	47	40	32
7	47	53	1,050	83	88	107	173	65	49	106	44	30
8	46	50	870	145	86	128	321	65	48	158	47	30
9	45	48	571	179	84	123	194	62	48	68	53	30
10	45	47	906	118	81	110	163	61	48	58	53	30
11	44	47	600	107	78	105	146	60	74	94	44	30
12	44	59	350	101	76	101	137	58	58	116	42	30
13	49	94	266	100	78	101	144	57	51	69	40	29
14	49	67	217	180	113	99	147	59	48	72	50	29
15	44	59	187	148	138	94	128	81	46	132	52	29
16	43	56	168	125	103	92	119	65	45	94	43	31
17	43	54	155	115	95	94	113	59	44	77	41	52
18	42	52	144	107	89	93	110	57	42	70	41	37
19	46	51	137	102	85	90	105	56	43	65	41	32
20	63	50	126	100	88	91	96	68	43	62	39	31
21	49	50	118	97	241	88	86	133	49	59	39	29
22	45	49	113	93	408	86	85	74	44	66	38	29
23	42	76	139	91	205	94	89	66	41	68	37	28
24	41	676	144	86	173	93	87	62	40	57	36	28
25	41	1,070	117	84	156	85	80	58	39	54	35	27
26	41	388	111	83	141	82	78	57	40	52	35	28
27	39	207	105	80	134	85	81	55	39	50	35	32
28	40	181	99	77	141	239	77	54	45	48	35	30
29	40	153	95	78	---	165	75	55	48	47	35	28
30	38	134	92	93	---	121	75	53	40	46	35	30
31	38	---	89	85	---	124	---	52	---	48	35	---
TOTAL	1,414	4,087	8,298	3,152	3,464	3,439	4,757	2,011	1,441	2,086	1,296	934
MEAN	45.6	136	268	102	124	111	159	64.9	48.0	67.3	41.8	31.1
MAX	63	1,070	1,050	180	408	239	591	133	74	158	54	52
MIN	38	38	89	77	76	82	75	52	39	39	35	27
CFSM	0.80	2.39	4.70	1.78	2.17	1.95	2.78	1.14	0.84	1.18	0.73	0.55
IN.	0.92	2.67	5.42	2.06	2.26	2.24	3.10	1.31	0.94	1.36	0.85	0.61
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2005, BY WATER YEAR (WY)												
MEAN	40.2	60.6	101	132	161	184	141	96.5	60.6	55.7	39.4	39.4
MAX	210	220	299	355	420	591	370	639	197	305	108	140
(WY)	(1990)	(1958)	(1962)	(1974)	(1990)	(1973)	(1964)	(1984)	(1989)	(1967)	(1967)	(1977)
MIN	14.9	19.0	23.1	21.1	48.9	40.9	32.1	24.4	17.4	16.6	16.9	18.7
(WY)	(1989)	(1988)	(1959)	(1981)	(1988)	(1986)	(1986)	(1986)	(1988)	(1986)	(1986)	(1988)

03565500 OOSTANAULA CREEK NEAR SANFORD, TN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1955 - 2005	
ANNUAL TOTAL	38,102		36,379			
ANNUAL MEAN	104		99.7		91.0	
HIGHEST ANNUAL MEAN					147	1973
LOWEST ANNUAL MEAN					27.5	1986
HIGHEST DAILY MEAN	1,070	Nov 25	1,070	Nov 25	5,920	Mar 17, 1973
LOWEST DAILY MEAN	a25	Aug 18	27	Sep 25	11	Jul 31, 1986
ANNUAL SEVEN-DAY MINIMUM	26	Aug 14	29	Sep 20	12	Jul 30, 1986
MAXIMUM PEAK FLOW			1,310	Nov 25	b8,000	Mar 16, 1973
MAXIMUM PEAK STAGE			7.78	Nov 25	13.43	Mar 16, 1973
INSTANTANEOUS LOW FLOW			c27	Sep 24	d10	Sep 30, 1985
ANNUAL RUNOFF (CFSM)	1.83		1.75		1.60	
ANNUAL RUNOFF (INCHES)	24.87		23.74		21.70	
10 PERCENT EXCEEDS	175		162		173	
50 PERCENT EXCEEDS	60		67		55	
90 PERCENT EXCEEDS	32		37		23	

a Also occurred on Aug. 19, 20, 2004.
b From rating curve extended above 4,000 ft^3/s on basis of slope-area measurement of peak flow.
c Also occurred on Sept. 25, 26, 2005.
d Also occurred Nov. 7, 1985, result of bridge construction upstream.



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