Water-Data Report 2007

03565442 OOSTANAULA CREEK AT HWY 30 NEAR ATHENS, TN

Middle Tennessee-Hiwassee Basin
Hiwassee Subbasin

LOCATION.--Lat 35°25'58.05", long 84°35'08.65" referenced to North American Datum of 1927, McMinn County, TN, Hydrologic Unit 06020002, on right bank 100 ft downstream from bridge on State Highway 30, 0.8 mi southeast of Courthouse in Athens, TN.

DRAINAGE AREA.--26.3 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2003 to Feb. 2008.

GAGE.--Data logger to Feb. 10, 2006, data collection platform, thereafter.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge unknown, maximum gage height 16.65 ft, May 6, 2003; minimum discharge 4.0 ft^3/s, Sept. 8, 28, and 29, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 414 ft^3/s, Apr. 26, maximum gage height 5.52 ft; minimum discharge, 4.0 ft^3/s, Sept. 8, 28, and 29.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16	34	25	61	31	33	22	31	13	13	10	7.4
2	13	31	27	34	32	45	20	30	16	33	14	6.1
3	10	29	25	31	32	34	19	30	15	18	24	5.8
4	11	29	22	30	29	30	27	28	14	14	15	5.4
5	13	29	20	37	26	28	19	33	13	13	15	5.6
6	14	28	20	37	24	26	18	30	13	11	13	5.9
7	13	39	19	76	26	26	20	26	12	16	12	6.4
8	12	39	20	82	26	25	19	24	13	16	11	6.3
9	9.9	34	23	47	26	22	18	23	14	16	9.8	6.8
10	9.7	32	21	42	29	23	18	23	14	13	8.9	6.5
11	11	32	20	39	26	23	29	22	13	16	10	8.7
12	11	29	21	36	24	21	23	27	12	14	9.4	7.2
13	9.9	28	21	37	23	20	20	22	12	8.5	9.4	6.2
14	12	27	20	35	25	20	34	21	11	10	8.8	26
15	12	61	16	35	23	23	56	20	11	9.6	7.8	9.1
16	11	83	17	35	22	37	38	20	12	11	8.0	7.4
17	61	52	16	31	24	30	33	19	12	9.5	7.7	7.1
18	22	51	14	31	23	25	29	18	15	10	8.9	6.3
19	23	44	14	31	21	24	27	20	36	10	8.1	5.8
20	31	42	13	32	21	23	25	18	23	8.7	8.2	6.0
21	24	39	12	53	22	23	27	17	12	10	7.3	5.3
22	20	34	24	55	20	21	25	17	10	9.2	7.6	6.7
23	21	33	20	41	19	20	24	16	13	8.8	7.8	6.0
24	18	31	17	38	21	22	26	16	14	10	7.6	6.3
25	19	32	20	36	39	22	24	15	12	9.6	7.7	5.6
26	19	31	17	35	27	21	51	16	9.6	8.9	7.8	5.6
27	93	28	16	36	23	20	75	16	9.2	8.0	7.8	6.3
28	94	28	15	34	21	20	40	15	8.7	15	7.2	5.6
29	41	26	13	31	---	19	36	15	9.8	14	7.2	6.4
30	34	25	16	31	---	19	33	14	12	14	18	6.2
31	32	---	56	31	---	21	---	14	---	13	7.2	---
Total	740.5	1,080	620	1,240	705	766	875	656	404.3	390.8	312.2	212.0
Mean	23.9	36.0	20.0	40.0	25.2	24.7	29.2	21.2	13.5	12.6	10.1	7.07
Max	94	83	56	82	39	45	75	33	36	33	24	26
Min	9.7	25	12	30	19	19	18	14	8.7	8.0	7.2	5.3
Cfsm	0.91	1.37	0.76	1.52	0.96	0.94	1.11	0.80	0.51	0.48	0.38	0.27
In.	1.05	1.53	0.88	1.75	1.00	1.08	1.24	0.93	0.57	0.55	0.44	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	19.5	39.1	54.9	46.8	49.8	38.4	47.2	79.1	25.8	27.7	19.1	23.3
Max	23.9	65.5	123	53.9	74.9	58.5	72.8	291	55.5	61.1	31.8	43.1
(WY)	(2007)	(2005)	(2005)	(2006)	(2004)	(2004)	(2005)	(2003)	(2003)	(2003)	(2003)	(2004)
Min	13.1	23.8	20.0	40.0	25.2	24.7	29.2	21.2	13.5	12.0	10.1	7.07
(WY)	(2006)	(2006)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2006)	(2007)	(2007)

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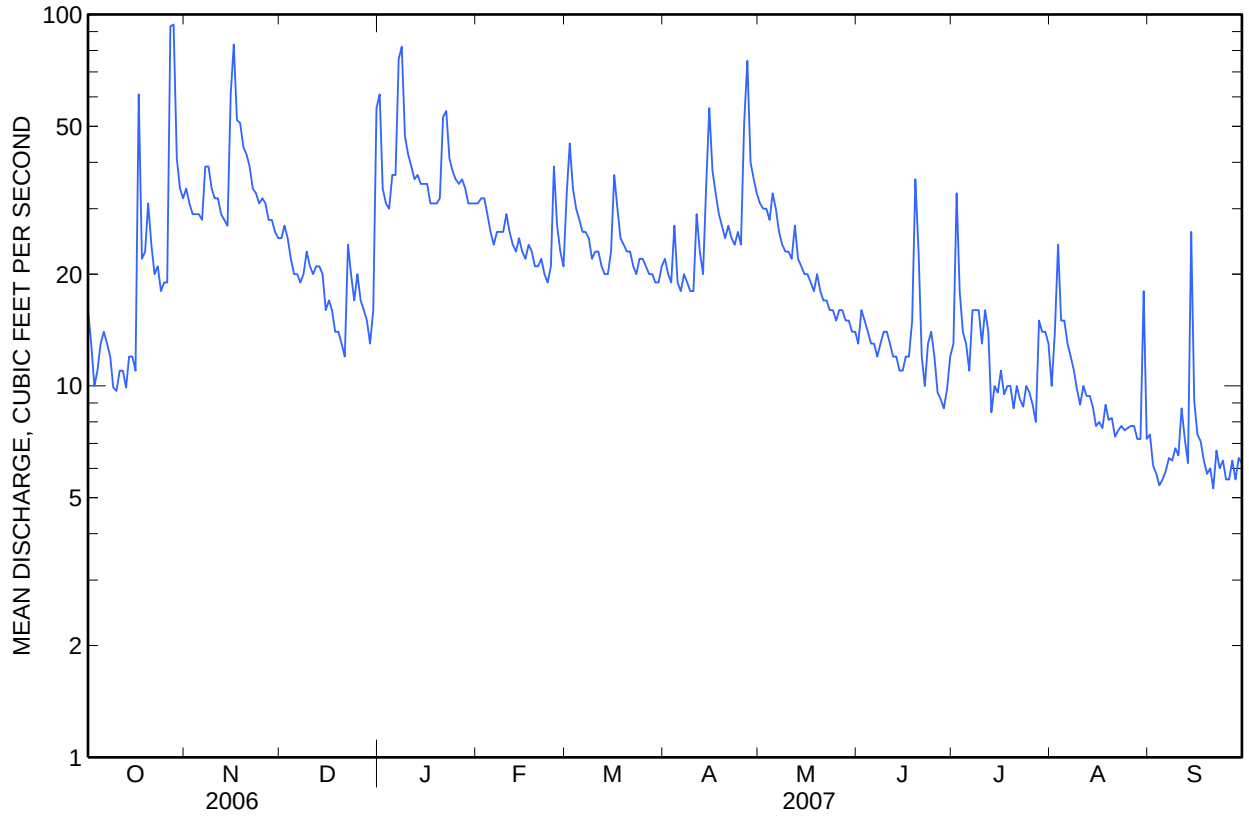
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2003 - 2007	
Annual total	10,641.1		8,001.8			
Annual mean	29.2		21.9		33.0	
Highest annual mean					45.3	2005
Lowest annual mean					21.9	2007
Highest daily mean	150	Jan 18	94	Oct 28	3,430	May 6, 2003
Lowest daily mean	5.8	Aug 9	5.3	Sep 21	5.3	Sep 21, 2007
Annual seven-day minimum	7.3	Aug 4	5.9	Sep 20	5.9	Sep 20, 2007
Maximum peak flow			414	Apr 26		
Maximum peak stage			5.52	Apr 26	16.65	May 6, 2003
Instantaneous low flow			[a]4.0	Sep 8	[a]4.0	Sep 8, 2007
Annual runoff (cfsm)	1.11		0.834		1.26	
Annual runoff (inches)	15.05		11.32		17.06	
10 percent exceeds	54		36		55	
50 percent exceeds	25		20		26	
90 percent exceeds	9.7		7.8		11	

[a] Also occurred on Sept. 28 and 29.