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Water-Data Report 2008

**05406500 BLACK EARTH CREEK AT BLACK EARTH, WI**

Wisconsin Basin  
Lower Wisconsin Subbasin

LOCATION.--Lat 43°08'03", long 89°43'56" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.25, T.8 N., R.6 E., Dane County, WI, Hydrologic Unit 07070005, on right bank, 0.8 mi east of Black Earth and 2.1 mi upstream from Vermont Creek.

DRAINAGE AREA.--45.6 mi<sup>2</sup> of which 2.80 mi<sup>2</sup> probably is noncontributing.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--February 1954 to current year.

REVISED RECORDS.--WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 812.95 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Gage-height telemeter at station.

## Water-Data Report 2008

**05406500 BLACK EARTH CREEK AT BLACK EARTH, WI—Continued**

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

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	54	44	43	e38	41	46	98	91	76	78	65	58
<b>2</b>	51	43	41	38	41	49	82	100	73	76	64	58
<b>3</b>	74	43	39	38	41	81	78	95	73	73	64	57
<b>4</b>	56	44	39	38	43	70	79	88	73	71	75	62
<b>5</b>	51	44	39	39	44	65	77	85	124	69	72	67
<b>6</b>	50	43	39	45	44	61	74	84	99	67	69	62
<b>7</b>	49	43	39	73	44	58	75	88	87	68	68	60
<b>8</b>	49	42	39	91	43	57	80	84	403	94	68	59
<b>9</b>	49	43	39	82	e42	56	125	82	768	73	67	59
<b>10</b>	48	43	39	67	e41	55	125	81	189	67	67	59
<b>11</b>	47	43	39	64	e40	55	336	84	139	525	66	58
<b>12</b>	46	43	38	59	e41	57	155	80	152	250	66	58
<b>13</b>	45	42	38	57	43	71	125	78	504	112	66	70
<b>14</b>	45	43	38	53	44	103	109	77	181	89	66	69
<b>15</b>	45	42	38	50	44	102	101	75	159	81	66	66
<b>16</b>	52	43	38	49	43	90	96	73	131	76	66	62
<b>17</b>	49	43	37	49	49	83	91	71	120	73	66	59
<b>18</b>	114	43	37	45	51	83	119	71	114	71	66	58
<b>19</b>	72	43	37	e42	47	94	109	71	109	70	65	58
<b>20</b>	59	43	37	e41	e44	92	95	70	106	71	63	57
<b>21</b>	54	43	38	e40	e43	84	89	69	102	70	62	56
<b>22</b>	51	43	41	e40	e43	77	87	69	100	68	62	56
<b>23</b>	50	43	54	e40	45	75	84	68	99	66	62	55
<b>24</b>	49	43	47	e40	46	75	82	68	96	65	61	55
<b>25</b>	47	43	43	e40	46	83	359	67	95	65	60	56
<b>26</b>	47	44	42	e40	46	88	158	73	94	65	60	54
<b>27</b>	47	43	40	41	45	82	114	69	92	64	59	54
<b>28</b>	47	42	40	41	45	76	106	68	90	64	59	53
<b>29</b>	46	42	40	44	46	73	99	67	87	64	60	53
<b>30</b>	46	42	39	48	---	71	94	96	83	68	59	53
<b>31</b>	45	---	e38	42	---	85	---	81	---	65	59	---
<b>Total</b>	1,634	1,288	1,235	1,514	1,275	2,297	3,501	2,423	4,618	2,878	1,998	1,761
<b>Mean</b>	52.7	42.9	39.8	48.8	44.0	74.1	117	78.2	154	92.8	64.5	58.7
<b>Max</b>	114	44	54	91	51	103	359	100	768	525	75	70
<b>Min</b>	45	42	37	38	40	46	74	67	73	64	59	53
<b>Cfsm</b>	1.23	1.00	0.93	1.14	1.03	1.73	2.73	1.83	3.60	2.17	1.51	1.37
<b>In.</b>	1.42	1.12	1.07	1.32	1.11	2.00	3.04	2.11	4.01	2.50	1.74	1.53

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2008, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	31.9	33.4	30.7	29.7	34.1	47.9	43.9	40.5	41.2	37.8	34.9	33.6
<b>Max</b>	52.7	70.2	48.0	51.6	65.2	85.3	117	92.0	154	140	104	66.0
(WY)	(2008)	(1986)	(1988)	(1974)	(2005)	(1961)	(2008)	(2004)	(2008)	(1993)	(2001)	(1980)
<b>Min</b>	15.9	16.1	14.8	15.1	16.0	16.9	22.5	18.7	14.4	14.0	15.5	15.3
(WY)	(1967)	(1967)	(1965)	(1959)	(1959)	(1968)	(1957)	(1965)	(1965)	(1965)	(1958)	(1958)

**05406500 BLACK EARTH CREEK AT BLACK EARTH, WI—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>		<b>Water Year 2008</b>		<b>Water Years 1954 - 2008</b>	
<b>Annual total</b>	17,064		26,422			
<b>Annual mean</b>	46.8		72.2		36.7	
<b>Highest annual mean</b>					72.2	2008
<b>Lowest annual mean</b>					19.8	1964
<b>Highest daily mean</b>	591	Aug 19	768	Jun 9	1,230	Aug 2, 2001
<b>Lowest daily mean</b>	23	Jul 26	37	Dec 17 <sup>a</sup>	12	Feb 16, 1958 <sup>b</sup>
<b>Annual seven-day minimum</b>	25	Feb 15	37	Dec 14	13	Jul 24, 1965
<b>Maximum peak flow</b>			1,020	Jun 8	<sup>c</sup> 1,750	Jul 3, 1954
<b>Maximum peak stage</b>			6.02	Jun 8	<sup>d</sup> 7.08	Aug 2, 2001
<b>Instantaneous low flow</b>					<sup>e</sup> 4.8	Nov 29, 1958
<b>Annual runoff (cfsm)</b>	1.09		1.69		0.857	
<b>Annual runoff (inches)</b>	14.83		22.96		11.65	
<b>10 percent exceeds</b>	63		99		54	
<b>50 percent exceeds</b>	42		61		31	
<b>90 percent exceeds</b>	27		41		20	

<sup>a</sup> Also occurred Dec. 18-20.<sup>b</sup> Also occurred July 26, 29, 1965.<sup>c</sup> Gage height, 6.58 ft.<sup>d</sup> Discharge, 1,720 ft<sup>3</sup>/s.<sup>e</sup> Result of freezeup.