

Streamgaging U.S. Geological Survey



Mineral Creek at Silverton, Colorado (09359010)
In cooperation with Southwestern Water Conservation District

Dave Grey, November 16, 2009

2011



January 2011

Dave Grey, November 16, 2009

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 New Year's Day
2	3 Reversal of the Chicago River 1900	4 Isaac Newton b 1643	5	6 Clarence King b 1842	7	8
9	10	11 Aldo Leopold b 1887	12	13	14	15
16	17 Martin Luther King Day	18	19	20	21	22
23	24	25	26	27	28	29 Daniel Bernoulli b 1700
30	31	WaterAlert http://water.usgs.gov/wateralert/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS			December S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	February S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28



February 2011

Dave Grey, February 16, 2010

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2 Groundhog Day ●	3	4	5
6	7	8	9	10 CL Navier b 1785	11 ●	12 Abraham Lincoln b 1809
13	14 Valentine's Day	15 Galileo Galilei b 1564	16	17	18 ○	19
20	21 Washington's Birthday (Celebrated)	22 George Washington b 1732	23	24 ◐	25	26
27	28					
WaterWatch http://waterwatch.usgs.gov/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS				January S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		March S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



March 2011

John A. Mazurek, April 20, 2009

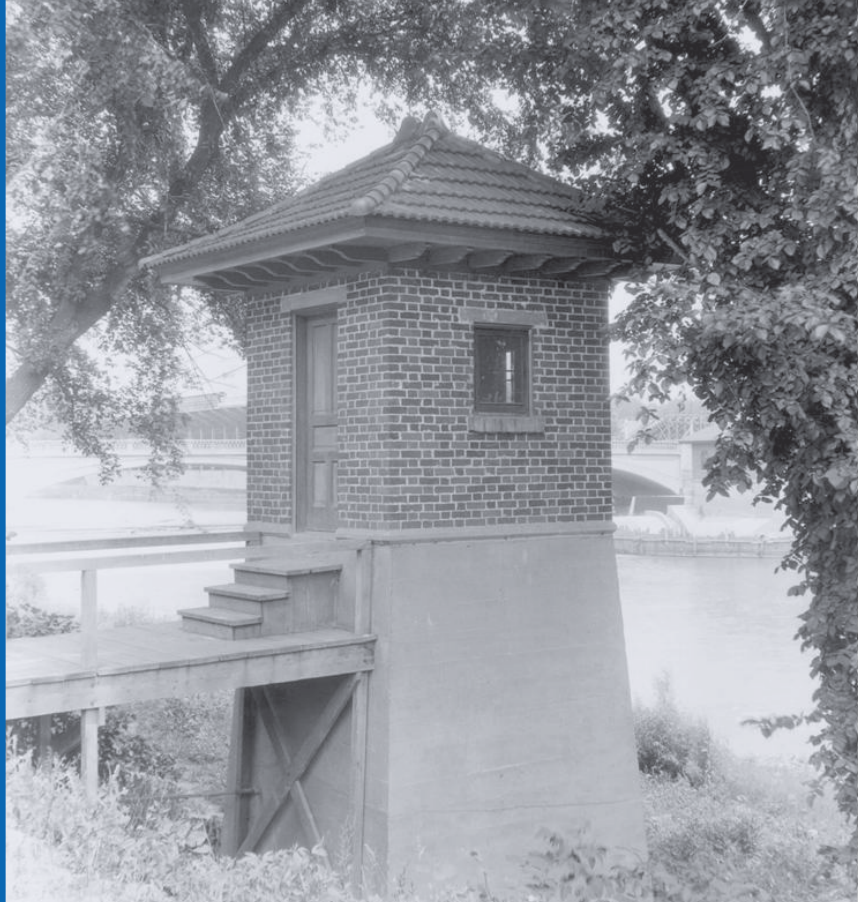
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2 Read Across America Day	3 USGS established 1879	4 ●	5 Frederick H Newell b 1862
6	7 CW Thornthwaite b 1899	8 Mardi Gras	9 Ash Wednesday	10 	11	12 ◐
13 Daylight Saving Time Begins	14 pi day Albert Einstein b 1879	15	16	17 St. Patrick's Day 	18	19 ○
20 Vernal Equinox 	21	22 World Water Day 	23 World Meteorological Day 	24 John Wesley Powell b 1834	25	26 ◐
27 Great Alaska Earthquake 1964	28	29	30	31 Rene Descartes b 1596		
National Water Information System (NWIS) http://waterdata.usgs.gov/nwis/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS					February S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	April S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



April 2011

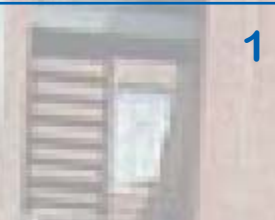
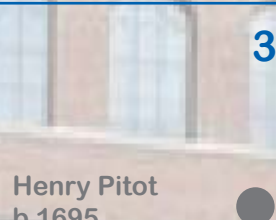
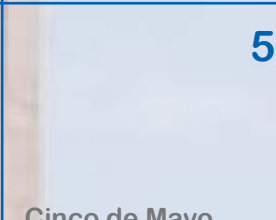
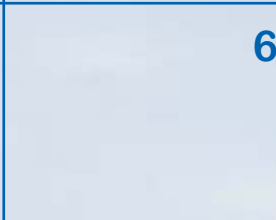
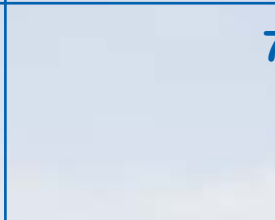
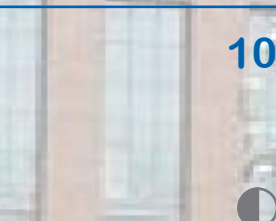
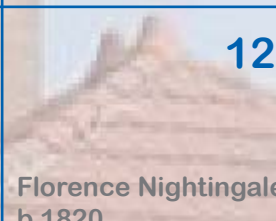
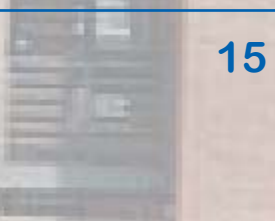
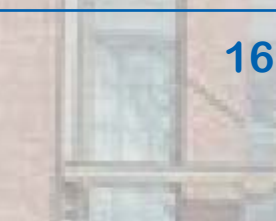
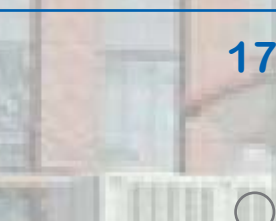
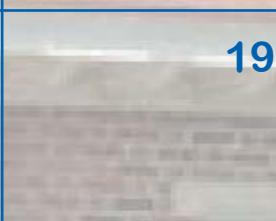
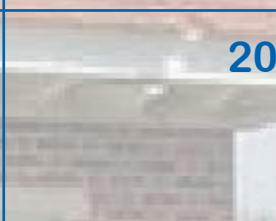
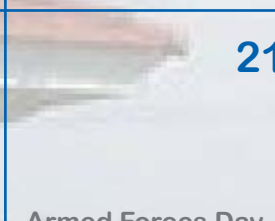
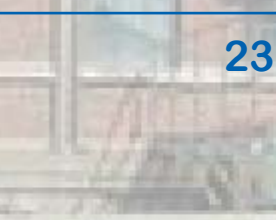
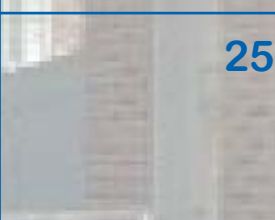
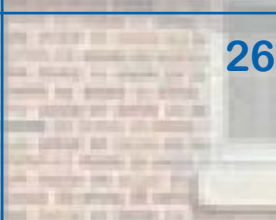
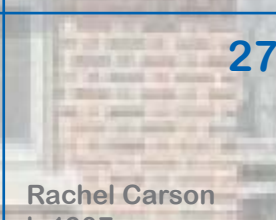
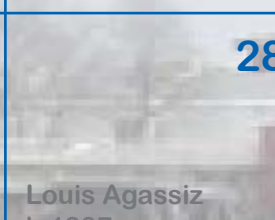
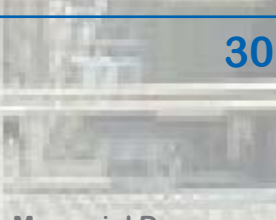
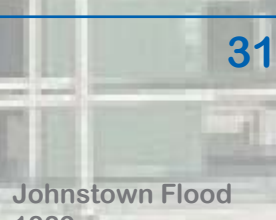
Kevin Murphy, April 14, 2010

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
					April Fool's Day	
3	4	5	6	7	8	9
●						
10	11	12	13	14	15	16
Howard Penman b 1909	☾				Leonardo da Vinci b 1452	
17	18	19	20	21	22	23
○				John Muir b 1838	JLM Poiseuille b 1797 Earth Day	
24	25	26	27	28	29	30
Easter ☾			Administrative Professionals Day	World Day for Safety and Health at Work	Arbor Day	
		Water Data Discovery http://water.usgs.gov/data/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS			March S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	May S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



May 2011

Iowa WSC Archive, circa 1920's and 2004

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 	2 	3  Henry Pitot b 1695 ●	4 	5  Cinco de Mayo	6 	7 
8  Mother's Day	9 	10  ●	11 	12  Florence Nightingale b 1820	13 	14  Hans A Einstein b 1904
15 	16 	17  ○	18  Robert E Horton b 1875 Mt. St. Helens Erupted 1980	19 	20 	21  Armed Forces Day
22 	23 	24  ●	25 	26 	27  Rachel Carson b 1907	28  Louis Agassiz b 1807
29 	30  Memorial Day	31  Johnstown Flood 1889				
WaterAlert http://water.usgs.gov/wateralert/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS				April S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		June S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
			1	2	3	4	
5	6	7	8	9	10	11	
World Environment Day					Henry Darcy b 1803 Abel Wolman b 1892		
12	13	14	15	16	17	18	
		Flag Day					
19	20	21	22	23	24	25	
Blaise Pascal b 1623 Father's Day		Summer Solstice					
26	27	28	29	30			
WaterWatch http://waterwatch.usgs.gov/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS					May S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		July S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



July 2011

Dave Grey, March 6, 2009

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 Gotfried Leibniz b 1646 ●	2
3	4 Independence Day	5	6	7	8 ☾	9
10	11	12	13	14	15 ○	16
17	18	19	20	21	22 pi Approximation Day ☾	23
24	25	26	27	28	29	30 ●
31 Big Thompson Flood 1976 (31,200 cfs)	National Water Information System (NWIS) http://waterdata.usgs.gov/nwis/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS				June S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	August S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



August 2011

Stewart Tomlinson, August 22, 2006

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 Peak of Record Mississippi River at St Louis 1993 (1,070,000 cfs)	2	3	4	5	6
7	8	9	10	11	12	13
		Amadeo Avogardo b 1776	Julius Weisbach b 1806			George Stokes b 1819
14	15	16	17	18	19	20
Ven Te Chow b 1919		Gordon "Reds" Wolman b 1924	Pierre de Fermat b 1601 Hurricane Camille 1969			
21	22	23	24	25	26	27
		Barre de Saint- Venant b 1797 Osborne Reynolds b 1842	Hurricane Andrew 1992	The Great Colonial Hurricane 1635		
28	29	30	31			
	Hurricane Katrina 2005					
Water Data Discovery http://water.usgs.gov/data/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS					July S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	September S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



September 2011

Alan Cressler, September 22, 2009

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7	8	9	10
	Labor Day			Galveston Hurricane 1900 International Literacy Day		Carl Garner Federal Lands Cleanup Day
11	12	13	14	15	16	17
		San Felipe-Okeechobee Hurricane 1928 Hurricane Ike 2008			World Ozone Layer Day	
18	19	20	21	22	23	24
	International Talk Like a Pirate Day			World Water Monitoring Day	Autumnal Equinox	Hurricane Rita 2005
25	26	27	28	29	30	
						
WaterAlert http://water.usgs.gov/wateralert/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS				August S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		October S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



October 2011

John A. Mazurek, October 16, 2009

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 World Habitat Day 	4	5	6	7	8 Luna Leopold b 1915
9	10 Columbus Day	11 	12 World Day for Natural Disaster Reduction	13	14	15 E Torricelli b 1608
16	17 Walter Langbein b 1907	18	19 	20	21	22 Robert Manning b 1816
23 Mole Day 6:02am--6:02pm	24	25	26 	27	28	29
30	31	WaterWatch http://waterwatch.usgs.gov/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS			September S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 22 23 24 25 26 27 28 29 30	November S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



November 2011

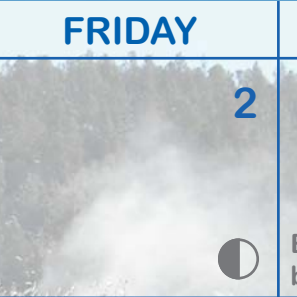
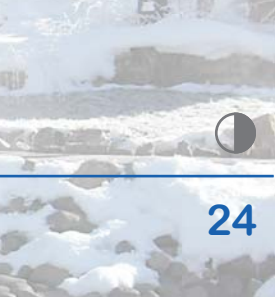
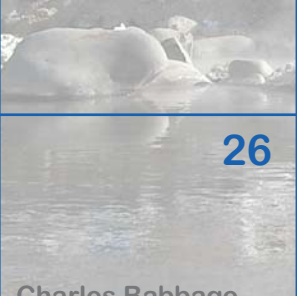
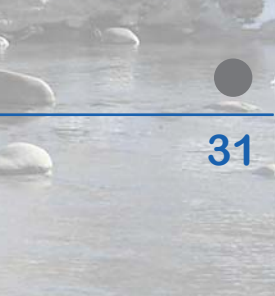
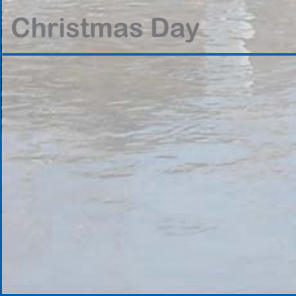
Alaska Science Center Archives
June 2000, November 2000, May 2010, November 2000

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4	5
6	7	8	9	10	11	12
Daylight Saving Time Ends		Edmond Halley b 1656 Election Day		World Science Day	Veterans Day	
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			Gilbert F White b 1911
		National Water Information System (NWIS) http://waterdata.usgs.gov/nwis/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS			October S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	December S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



December 2011

Dave Grey, January 5, 2010

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY																																																																																											
				 1	 2 ☾ Ellen S Richards b 1842	 3																																																																																											
 4	 5 International Volunteer Day	 6	 7	 8	 9 Grace Hopper b 1906	 10 Ada Lovelace b 1815 ☉																																																																																											
 11 International Mountain Day	 12	 13	 14	 15	 16	 17 ☾																																																																																											
 18	 19	 20	 21 Hanukkah Begins	 22 Winter Solstice	 23	 24 ☀																																																																																											
 25 Christmas Day	 26 Charles Babbage b 1791	 27	 28	 29	 30	 31 New Year's Eve																																																																																											
Water Data Discovery http://water.usgs.gov/data/ U.S. Geological Survey http://www.usgs.gov Telephone: 1-888-ASK-USGS					November <table> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				January <table> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td>31</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
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January

S	M	T	W	T	F	S
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

March

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

April

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

2012

May

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

June

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

July

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

August

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	



0737700 Amite River near Darlington, LA (Dennis Demcheck, April 14, 2009)

September

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

October

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

November

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

December

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					



08014500 Whisky Chitto Creek near Oberlin, LA; In cooperation with the U.S. Army Corps of Engineers (Dennis Demcheck, February 14, 2004)

Photo Descriptions & Popular USGS Water Resources Websites

water.usgs.gov

For more information
water.usgs.gov/user_feedback_form.html

- January* 09359010 Mineral Creek at Silverton, CO; In cooperation with Southwestern Water Conservation District
- February* 09359500 Animas River at Tall Timber Resort above Tacoma, CO; In cooperation with Southwestern Water Conservation District, U.S. Bureau of Reclamation, U.S. Forest Service, and La Plata County
- March* 03450000 Beetree Creek near Swannanoa, NC; In cooperation with City of Asheville, NC
- April* 404417108524900 Green River above Gates of Lodore, CO
- May* 05454500 Iowa River at Iowa City, IA; In cooperation with City of Coralville, City of Iowa City, and the University of Iowa
- June* 09510000 Verde River Below Bartlett Dam, AZ; In cooperation with the Salt River Valley Water Users' Association (Mike Sanders in cable car)
- July* 09371000 Mancos River at Towaoc, CO; In cooperation with Southwestern Conservation Water District, Ute Mountain Ute Tribe, and U.S. Bureau of Reclamation
- August* 06088500 Muddy Creek at Vaughn, MT; NSIP, U.S. Bureau of Reclamation, Montana Department of Fish, Wildlife and Parks
- September* 02337000 Sweetwater Creek near Austell, GA; In cooperation with Cobb County Water System (Mark Reynolds and Mark Truhlar measuring flow over 6 lanes of Interstate 20)
- October* 03455773 Lake Logan at Dam near Hazelwood, NC; In cooperation with Evergreen Packaging Group and the North Carolina Department of Environment and Natural Resources
- November* 15908000 Sagavanirktok River near Pump Station 3, AK
- December* 09342500 San Juan River at Pagosa Springs, CO (Ann McGowan making measurement at the hot spring pools)

Water Information

- Water Data Discovery—water.usgs.gov/data
- Groundwater—water.usgs.gov/ogw
- Surface Water—water.usgs.gov/osw
- Water Quality—water.usgs.gov/owq
- USGS Water Science Centers—water.usgs.gov/local_offices.html

Water Watch—Current Conditions

- Surface Water—waterwatch.usgs.gov
- Groundwater—groundwaterwatch.usgs.gov
- Water Quality—waterwatch.usgs.gov/wqwatch
- Flood Data—waterwatch.usgs.gov/?m=flood&r=us&w=real%2Cmap

Water Data and Use

- National Water Information System—waterdata.usgs.gov/nwis
- Instantaneous Streamflow Data Archive (IDA)—ida.water.usgs.gov/ida
- Water Use Information—water.usgs.gov/watuse
- Water Availability and Use Studies—water.usgs.gov/ogw/gwrpl/activities/water-avail-use.html

Programs

- StreamStats—water.usgs.gov/osw/streamstats
- National Streamflow Statistics—water.usgs.gov/osw/programs/nss
- National Water Quality Assessment—water.usgs.gov/nawqa
- Cooperative Water—water.usgs.gov/coop
- National Research—water.usgs.gov/nrp
- National Streamflow Information Program (NSIP)—water.usgs.gov/nsip

Educational Resources

- Water Science for Schools—ga.water.usgs.gov/edu
- USGS and Science Education—education.usgs.gov
- Information for Students and Teachers—water.usgs.gov/education.html

Publications and Products

- Annual Water Data Reports—wdr.water.usgs.gov
- USGS Publications Warehouse—pubs.er.usgs.gov
- Software Models and Tools—water.usgs.gov/software

Do you know what your water is doing today?

Too Much



Alan Cressler, USGS Georgia WSC

Is stage or discharge exceeding a threshold?

Too Little



Dave Gray, USGS Colorado WSC

Is the water surface nearing an intake pipe or is dissolved oxygen nearing a critical level?

Just Right



Eric Vance, USEPA

Is there enough, but not too much, water for safe and fun recreation or is the water temperature just right for chasing your favorite fish?

Sign-up for threshold-triggered daily or hourly email or text notices about current water conditions:

<http://water.usgs.gov/wateralert/>

WaterAlert