



2018 Water Mission Area U.S. Geological Survey



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	<div>Happy ¹ New Year</div> <div>○</div>	2	3 <div>Reversal of the Chicago River 1900</div>	4 <div>Isaac Newton b 1643</div>	5	6 <div>Clarence King b 1842</div>
7	8 <div>◐</div>	9	10	11 <div>Aldo Leopold b 1887</div>	12 <div>Haiti Earthquake, 2010, Magnitude 7.0</div>	13
14	15 <div>Martin Luther King Day</div>	16 <div>●</div>	17	18	19	20
21	22	23	24 <div>◐</div>	25 <div>Joseph Louis Lagrange b 1736</div>	26	27
28	29 <div>Daniel Bernoulli b 1700</div>	30	31 <div>○</div>	Notes:		

Cover: Hydrologic Technician John Wirt (Idaho Water Science Center) helps citizen scientists identify macroinvertebrate samples collected from the Boise River, near 13206000 Boise River at Glenwood Bridge near Boise, Idaho, as part of the City of Boise's annual Watershed Watch in which USGS is a co-sponsor. Operated in cooperation with U.S. Army Corps of Engineers and Bureau of Reclamation. Tim Merrick (photographer); October 1, 2016.

December							February						
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31													






February 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Notes:				1	2 	3
4 Super Bowl	5	6	7 e Day 	8	9	10 C.L. Navier b 1785
11	12 Abraham Lincoln b 1809	13  Mardi Gras	14  Ash Wednesday	15 Galileo Galilei b 1564 	16 Lunar New Year	17
18 Washington's Birthday (Presidents' Day)	19	20	21	22 George Washington b 1732	23 	24
25	26	27	28 Purim			
Neil Maimer collecting water sample at 432701113025601, well USGS 109, Idaho National Laboratory, while Zannita Pongah of the Shoshone Bannock Tribes waits to co-sample, station operated in cooperation with the U.S. Department of Energy. Big Southern Butte is in the background. Roy Bartholomay (photographer); April 18, 2017.					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 2018

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Notes:				1 	2 Read Across America Day	3  USGS Established 1879																																																																																				
4	5 Gerardus Mercator b 1512 Frederick H Newell b 1862	6	7 C.W. Thornthwaite b 1899	8	9 	10																																																																																				
11 Daylight Saving Time Spring Forward Great Tohoku Earthquake and Tsunami, Honshu, Japan 2011 Magnitude 9.0	12	13	14 pi Day Albert Einstein b 1879	15	16	17  St. Patrick's Day																																																																																				
18	19	20 Vernal Equinox	21 World Poetry Day	22 World Water Day	23 Emmy Noether b 1882 World Meteorological Day	24 Earth Hour (8:30-9:30 pm) John Wesley Powell b 1834																																																																																				
25 Palm Sunday	26	27 Good Friday Earthquake, Alaska 1964 Magnitude 9.2	28	29	30 Good Friday Passover	31 René Descartes b 1596																																																																																				
<p>Left: Hydrologic technician Chris Rowden checking gage readings at 07066000 Jacks Fork at Eminence, Missouri, for the Missouri Water Science Center and Groundwater and Streamflow Information Program. Photographer unknown; April 30, 2017.</p> <p>Right: Hydrologic technician Aaron Walsh performing wire weight measurements at 07018500 Big River at Byrnesville, Missouri, during record flood, in cooperation with the Missouri U.S. Army Corps of Engineers-St. Louis District and Groundwater and Streamflow Information Program. Josh Keele (photographer); May 1, 2017.</p>					<p>February</p> <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>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</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				<p>April</p> <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>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</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					
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April 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<div>1</div> <div></div> <div>April Fool's Day</div>	<div>2</div>	<div>3</div>	<div>4</div> <div>William Henry Jackson b 1843</div>	<div>5</div>	<div>6</div>	<div>7</div>
<div>8</div> <div></div>	<div>9</div>	<div>10</div> <div>Howard Penman b 1909</div>	<div>11</div>	<div>12</div>	<div>13</div>	<div>14</div>
<div>15</div> <div></div> <div>Leonardo da Vinci b 1452 Leonhard Euler b 1707</div>	<div>16</div>	<div>17</div> <div>Tax Day</div>	<div>18</div>	<div>19</div>	<div>20</div>	<div>21</div> <div>John Muir b 1838</div>
<div>22</div> <div>JLM Poiseuille b 1797 Earth Day </div>	<div>23</div>	<div>24</div>	<div>25</div> <div>Administrative Professionals Day</div>	<div>26</div>	<div>27</div> <div></div> <div>Arbor Day</div>	<div>28</div> <div>World Day for Safety and Health at Work Passover</div>
<div>29</div> <div></div>	<div>30</div> <div>Carl Friedrich Gauss b 1777</div>	<div>Top Left: Jennifer Back (National Park Service) and Andy Long (USGS) are filtering a water-quality sample from Windy City Lake, South Dakota, the world's sixth longest cave (433302103281501) within Wind Cave National Park. The subterranean lake is at the water table of regional Madison aquifer. Jason Walz, National Park Service (photographer); April 18, 2007.</div> <div>Top Right: An Autonomous Underwater Vehicle (AUV) was developed in the Great South Bay, Long Island, New York, to capture snapshots of water-quality conditions over broad areas. Here, Adam Starke (left of the AUV) of the Nature Conservancy and Lee Bodkin (right of AUV; USGS) retrieve the AUV from its mission mapping water-quality conditions across the Bergen Point Treatment Plant under-bay section of outfall pipe. The goal is to see if changes in surrounding water-quality suggest potential leaks in the aging infrastructure. Tom Pistillo (at laptop; USGS) prepares to retrieve the data. Tristen Tagliaferri (photographer); August 24, 2016.</div> <div>Bottom: Hydrologic Technician Jonathan A Cohl is servicing a fouled in-situ water-quality monitor at 01408000 Manasquan River at Squankum, New Jersey in cooperation with the New Jersey Water Supply Authority. Molly Schreiner (photographer); December 8, 2015.</div>				
<div>March</div> <div><div>S</div><div>M</div><div>T</div><div>W</div><div>T</div><div>F</div><div>S</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div></div>		<div>May</div> <div><div>S</div><div>M</div><div>T</div><div>W</div><div>T</div><div>F</div><div>S</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div></div>				



May 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Notes:		1	2	3 Henry Pitot b 1695	4 	5
6	7 	8	9	10	11	12 Florence Nightingale b 1820
13  Mother's Day	14 Hans A Einstein b 1904	15 Ramadan Begins 	16	17	18 Robert E Horton b 1875 Mount Saint Helens Erupted 1980	19 Armed Forces Day
20	21 	22 International Day for Biological Diversity	23	24	25	26
27 Rachel Carson b 1907	28  Memorial Day Louis Agassiz b 1807	29 	30	31 Johnsontown Flood 1889		

The Ohio-Kentucky-Indiana Water Science Center acquired two quadcopters in Fall 2016 with the goal of integrating Unmanned Aerial Systems (UAS) into our hydrologic investigations and data collection. Current research using UAS includes delineating tile-drain networks in agricultural landscapes, documenting wetland recovery, identifying potential safety issues in dam structures, and remote data collection. The UAV and remote boat testing pictured above, is at 03290500 Kentucky River Lock 2 at Lockport, Kentucky, operated in cooperation with Kentucky River Authority. Timothy Shawn LeMaster (photographer); July 24, 2017.

April							June						
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29	30						24	25	26	27	28	29	30



June 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Notes:					1	2
3	4	5	6	7	8	9
		World Environment Day			World Oceans Day	Rapid City Flood 1972
10	11	12	13	14	15	16
Henry Darcy b 1803 Abel Wolman b 1892				 Flag Day World Blood Doner Day		
HAPPY FATHER'S DAY World Day to Combat Desertification & Drought	18	19	20	21	22	23
		Blaise Pascal b 1623		Summer Solstice		Public Service Day
24	25	26	27	28	29	30
	Day of the Seafarer			Tau Day 		




Left: John Greene and Joe Miles, Hydrologic Technicians, installing new orifice piping in the gage pool at 12143900 Boxley Creek near Edgewick, Washington, in cooperation with Seattle Public Utilities and Seattle City Light. Katherine Reams (photographer); June 20, 2017.

Right: Dave Parker making a FlowTracker discharge measurement at 11460750 Walker Creek near Marshall, California, in cooperation with California Marin Municipal Water District. Douglas McGhee (photographer); October 25, 2016.

May							July						
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July 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY																																																																																
1 Gottfried Leibniz b 1646	2 Canada Day	3	4 	5	6 	7																																																																																
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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)	<p>Top Left: Roy Bartholomay and Mary Hodges collect a water quality sample from a thief sampler at well 425023113474301 Well Kimama-1A, Kimama, Idaho. Linda Davis (photographer-retired); October 7, 2010.</p> <p>Top Right: Chris Kohel studies drill cuttings while Adam Kjos and Jim Huckaby install monitoring well 344520120174001 Monitoring well SACC#5 in the San Antonio Creek Valley using the USGS Research Drilling Program auger rig. Study is in cooperation with California Water Science Center and County of Santa Barbara and Vandenberg Air Force Base. David O’Leary (photographer); December 8, 2016.</p> <p>Bottom: Hydrologic Technicians Eric Looper and Jason Carron (Missouri Water Science Center) conducting a high flow discharge measurement on the Mississippi River at St. Louis, Missouri (07010000) during the December 2015/Jananuary 2016 flood event. They are using a manned boat equipped with an Acoustic Doppler Current Profiler (ADCP) measuring device. Jennifer LaVista (photographer); December 30, 2015.</p>																																																																																			
<div>June</div> <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>1</td><td>2</td></tr><tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr><tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr><tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr><tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</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	<div>August</div> <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>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr><tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr><tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr><tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</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
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August 2018

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Notes:			1 Peak of Record Mississippi River at St Louis 1993 (1,070,000 cfs)	2	3	4 																																																																																											
5	6	7	8	9 Amedeo Avogadro b 1776	10 Julius Weisbach b 1806	11 																																																																																											
12	13 George Stokes b 1819	14 Ven Te Chow b 1919 Harold A Thomas b 1913	15 Gordon "Reds" Wolman b 1924	16	17 Pierre de Fermat b 1601 Hurricane Camille 1969	18 																																																																																											
19	20	21	22	23 Osborne Reynolds b 1842 Barré de Saint-Venant b 1797	24 Hurricane Andrew 1992	25 The Great Colonial Flood 1635																																																																																											
26 	27	28	29 Hurricane Katrina 2005	30	31																																																																																												
USGS weather station at Shingobee Lake Raft Station and part of the Shingobee Headwaters Aquatic Ecosystem Project, Minnesota. Dallas Clell Hudson (photographer); July 3, 2017.					<div>July</div> <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>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr><tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr><tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr><tr><td>29</td><td>30</td><td>31</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					<div>September</div> <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></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						
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September 2018

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<p>Left: Mike Hedgpeth and Norman Soeder (California Water Science Center) measuring 66,000 cfs with 150 lb. weight at 11446500 American River at Fair Oaks, California. Site is operated in cooperation with California U.S. Bureau of Reclamation.</p> <p>Right Photos: Troy Landworthy (Utah Water Science Center) in 2017 fabricated metal cable car, and using ADCP technology to measure discharge at 09379500 San Juan River near Bluff, Utah. FTS data logger and non-contract radar along with a wire-weight gage at same location as water-quality station. Chain gage was installed in 1914. Beginning "180 miles from the nearest practical railroad station" and it had the distinction as "being the most isolated station in the country." In 2017 data is transmitted every hour, is accessible to anyone in the world with internet access and is operated in cooperation with U.S. Bureau of Reclamation. Chris Wilkowske (photographer); April 24, 2017.</p>						1																																																																																				
2 	3 HAPPY LABOR DAY	4	5	6	7	8 Carl Garner Federal Lands Cleanup Day Galveston Hurricane 1900 International Literacy Day																																																																																				
9 Grandparent's Day Rosh Hashanah 	10	11 Patriot Day	12	13 Programmer's Day San Felipe-Okeechobee Hurricane 1928 Hurricane Ike 2008	14	15																																																																																				
16 International Day for the Preservation of the Ozone Layer 	17	18 Yom Kippur	19  International Talk Like a Pirate Day	20	21	22 Autumn Equinox World Water Monitoring Day																																																																																				
23	24 Hurricane Rita 2005 World Maritime Day Eid al-adah 	25	26	27	28	29																																																																																				
30 World Maritime Day	Notes:				<p>August</p> <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>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</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		<p>October</p> <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>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</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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October 2018



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 World Habitat Day	2 	3	4	5 TEACHERS RULE  World Teacher's Day	6
7	8 Luna Leopold b 1915 Columbus Day Thanksgiving Day (Canada)	9 J R Mather b 1923 Leif Erikson Day	10 International Day for Natural Disaster Reduction	11	12	13
14	15 E Torricelli b 1608	16 Boss's Day 	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 Hurricane Sandy 2012	30	31  	Notes:		

Station 01188000 Bunnell Brook near Burlington, Connecticut has a weir structure that controls the height of the water, so a stable relation between stream stage and flow can be maintained. The gage house is the concrete structure and is operated in cooperation with the town of New Britain, Connecticut. Henry Witt (photographer); October 19, 2016.

September							November						
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November 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY																																																																																											
Notes:				1	2	3																																																																																											
4 Daylight Saving Time Fall Back	5	6 Election Day	7 Typhoon Haiyan, The Phillipines, 2013 Marie Curie b 1867 ●	8 Edmond Halley b 1656	9 Hedy Lamarr b 1914	10 World Science Day																																																																																											
11 Carleton Watkins b 1829	12  VETERANS DAY	13	14	15 ●	16	17																																																																																											
18 Louis Daguerre b 1851	19	20 Universal Children's Day	21	22 	23 ○	24																																																																																											
25 Gilbert F White b 1911	26	27	28	29 ●	30																																																																																												
<p>Thor Smith (New England Water Science Center) is surveying the river channel, about 6 miles downstream of USGS gage 010965852 Beaver Brook at North Pelham, New Hampshire, for the Merrimack Watershed flood risk analysis and mapping project, funded by FEMA as part of the National Flood Insurance Program.</p> <p>Jason Sorenson (photographer); October 24, 2016.</p>				<p>October</p> <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>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</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				<p>December</p> <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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December 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
13011500 Pacific Creek at Moran, Wyoming celebrates its 100th birthday this year. Happy 100th Birthday! Steve Shivers (photographer); March 24, 2017.						1
 2	3 Ellen S Richards b 1842	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 Winter Solstice  First official USGS discharge measurement, Embudo, NM 1888	22 ○
23	24 Christmas Eve	25 	26 Kwanza Begins Sumatra-Andaman Islands Earthquake and Tsunami, Sumatra, Indonesia 2004 Magnitude 9.1	27 Charles Babbage b 1791	28	29 ◐
30	31	Notes:			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	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

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2019



Identification, documentation, and flagging of high water marks in the town of Alderson, West Virginia, after the June 2016 floods. Shephan Shansey and Jerilyn Collenburg (New Jersey Water Science Center) pictured. Study done in cooperation with Federal Emergency Management Agency and the Virginia-West Virginia WSC, near 03183500 Greenbrier River at Alderson, West Virginia. Jim Duda (photographer); July 2016.

July

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September

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November

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December

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01193500 Salmon River near East Hampson, Connecticut, shows housing for water-quality monitor (YSI 6920) for Dissolved Oxygen Project, in cooperation with the Connecticut Department of Energy and Environmental Protection. Brittney Jones (photographer); May 2017.

The Water Resources Mission Area's mission is to Observe, Understand, Predict, and Deliver Water Science to the Nation. Since 1879, the USGS has addressed issues of water availability and quality, drought, and flood hazards. Today, the USGS Water Resources Mission Area has approximately 3,700 hydrologic professionals and support staff located in all 50 States and Puerto Rico to help continue this legacy of providing the Nation with critical water information. I would like to thank all of our staff and our partners, stakeholders, decision makers, and the public for their continued support of our mission and I look forward to continuing our work together for many years to come.

Don Cline, Associate Director for the Water Resources Mission Area

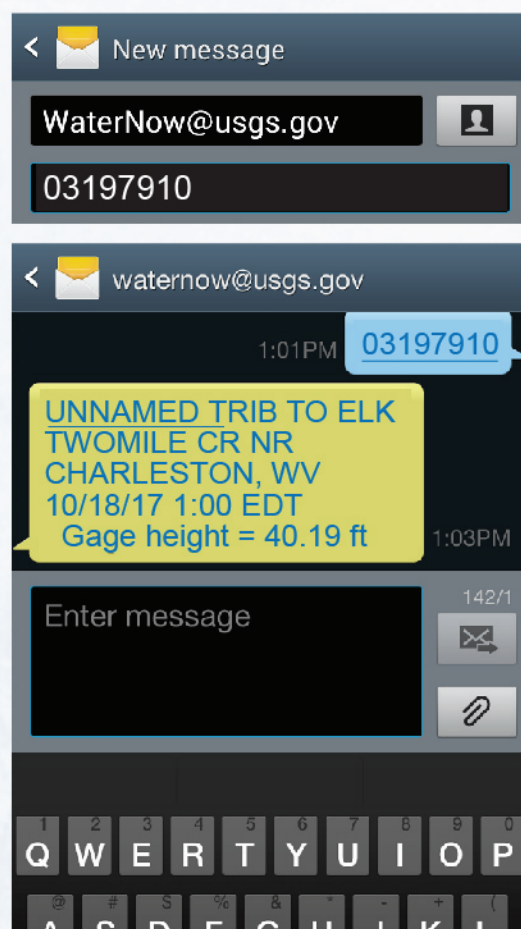
Note: Use or display of brand names does not imply endorsement. For some religious holidays, observance begins at sunset of the day before.

WaterNow



Current conditions on-demand:

Send an email message to WaterNow@usgs.gov where either the Subject or the first line of the message contains the USGS Site Number of the gage you want to query (optionally add parameter codes to customize your query). You will receive a response within a few minutes (<https://water.usgs.gov/waternow/>).



New message

WaterNow@usgs.gov

03197910

1:01PM 03197910

UNNAMED TRIB TO ELK
TWO MILE CR NR
CHARLESTON, WV
10/18/17 1:00 EDT
Gage height = 40.19 ft

1:03PM

Enter message

142/1

Q W E R T Y U I O P
A S D F G H J K L



03197910 Unnamed Tributary to Elk Two mile Creek near Charleston, WV. Carson Wright (photographer); July 35, 2017.

WaterAlert



Threshold-triggered notifications:

Sign up for daily or hourly email or text alerts about current water conditions using your thresholds for streamflow, groundwater, water quality, and precipitation at any of the 12,000+ sites where USGS collects real-time water data (<https://water.usgs.gov/wateralert/>).

USGS WaterAlert

Subscription Form

Site Info:

Site Number: 03197910
Site Name: UNNAMED TRIB TO ELK
TWO MILE CR NEAR
CHARLESTON, WV

Agency: USGS
Transaction ID: tT8sq

Send Notification To:

☐ My mobile phone
☐ My email address

Notification Frequency:

Hourly ☐
Daily ☒

Streamflow Parameter(s): Recent value:

Gage height (ft) ☒ 40.19 [peak chart]

Alert Threshold Condition:

☒ Greater than (>) Real-time value is greater than: ft
☐ Less than (<)
☐ Outside a range (< or >)
☐ Inside a range (> and <)

☐ I have read and acknowledge the [Provisional Data Statement](#) and [Disclaimer](#).