

**Total Dissolved Gas Saturation(%) - Average of
12 Highest Hours, 24 Hours Average and 24 Hours High
(Washington Calculation)**

Date 5/24/2018 5:15:09 PM

Total Dissolved Gas Data at Upper Columbia Sites

Date	Hungry H. Dnst				Boundary				Grand Coulee				Grand C. Tlwr				Chief Joseph				Chief J. Dnst				Date
	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	
05/10									111.9	112.3	112.4	24	116.7	117.1	117.5	24	115.8	116.2	116.1	24	119.1	119.3	119.4	24	05/10
05/11									112.0	112.5	113.3	24	124.0	126.3	129.4	24	115.2	115.8	115.6	24	123.7	124.9	125.4	24	05/11
05/12									112.7	113.3	114.5	24	131.6	133.4	137.0	24	120.3	123.3	125.8	24	126.8	128.0	128.7	24	05/12
05/13									113.6	113.7	114.1	24	136.7	137.1	137.5	24	129.3	131.0	132.8	24	128.3	128.8	129.3	24	05/13
05/14									114.4	114.7	115.1	24	137.5	138.2	138.4	24	135.1	135.9	136.0	24	128.4	128.8	129.3	24	05/14
05/15									115.8	116.1	116.3	24	138.0	138.2	139.5	24	136.5	137.3	137.6	24	128.3	128.6	128.6	24	05/15
05/16									117.3	117.7	119.1	24	135.0	137.8	137.4	24	137.1	137.6	138.2	24	127.3	128.2	128.6	24	05/16
05/17									117.7	117.9	118.2	24	134.6	134.7	135.0	24	134.7	137.0	136.1	24	127.6	128.2	129.0	24	05/17
05/18									117.5	117.8	117.9	24	133.9	134.5	134.6	24	131.9	133.2	132.3	24	126.1	128.4	128.2	24	05/18
05/19									118.6	119.1	119.6	24	133.5	134.0	134.3	24	132.6	133.1	133.5	24	125.4	125.8	126.2	24	05/19
05/20									120.2	120.7	120.9	24	135.0	135.9	136.5	24	132.8	133.3	133.7	24	125.7	126.1	126.4	24	05/20
05/21									120.7	120.9	121.0	24	137.5	138.5	138.9	24	133.4	134.1	134.5	24	127.1	127.8	128.5	24	05/21
05/22									121.0	121.3	121.6	24	138.1	138.7	139.6	24	135.7	136.6	137.3	24	128.2	128.6	129.4	24	05/22
05/23									122.0	122.3	122.6	23	136.7	138.7	138.5	23	137.4	137.7	138.3	23	128.2	128.7	130.1	23	05/23

Total Dissolved Gas Data at Upper Columbia Sites

Date	Wells				Wells Dwnstrm				Rocky Reach				Rocky R. Tlwr				Rock Island				Rock I. Tlwr				Date
	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	
05/10	113.7	114.4	114.3	24	122.3	122.8	123.8	24	120.7	121.7	121.2	24	127.7	127.9	128.7	22	120.7	121.1	121.3	24	125.8	126.2	127.4	19	05/10
05/11	114.6	115.8	116.2	24	127.0	128.5	129.3	24	121.2	122.1	124.6	24	133.4	134.8	136.5	22	122.7	124.5	124.6	22	129.2	131.3	131.6	21	05/11
05/12	117.9	119.6	120.6	24	130.1	131.3	131.5	24	126.6	128.1	128.7	24	136.5	137.7	138.8	22	127.7	128.8	129.3	23	133.3	133.9	134.3	22	05/12
05/13	122.4	124.0	124.6	24	134.1	135.8	136.6	24	129.3	130.2	131.8	24	135.1	136.3	137.8	23	128.6	129.5	130.1	24	133.7	134.4	135.6	23	05/13
05/14	125.4	126.8	127.5	22	137.4	138.5	139.9	22	133.7	134.8	135.8	24	135.8	136.9	137.7	20	131.0	131.3	132.7	22	136.4	136.7	137.3	18	05/14
05/15	126.3	126.9	127.4	24	136.8	138.3	137.5	24	136.1	136.4	136.7	24	134.7	136.1	135.6	22	131.7	132.2	132.5	23	136.6	136.9	137.2	22	05/15
05/16	125.6	126.9	126.2	24	136.5	137.2	137.5	24	135.4	136.4	136.3	24	133.7	134.0	135.1	22	130.4	131.8	131.4	24	136.0	136.8	136.5	21	05/16
05/17	123.6	125.8	124.7	24	136.1	136.3	137.3	24	134.6	135.7	135.5	24	133.8	134.4	135.8	24	129.0	130.3	131.1	24	134.4	135.9	135.8	24	05/17
05/18	122.2	123.2	122.7	24	134.8	136.1	136.4	24	133.8	135.1	135.3	23	132.8	133.8	134.6	20	129.5	129.8	131.1	21	135.9	135.9	136.2	20	05/18
05/19	122.7	123.5	123.8	24	134.4	134.7	135.3	24	134.1	134.4	135.0	24	132.9	133.2	133.8	21	129.2	129.7	130.0	23	135.4	135.7	136.1	21	05/19
05/20	123.9	124.6	125.1	24	135.5	136.0	136.7	24	134.3	135.2	135.9	24	133.4	134.2	134.6	24	130.0	130.5	131.1	24	135.9	136.3	136.9	24	05/20
05/21	124.1	125.1	125.5	24	135.4	135.8	136.6	24	134.5	135.4	135.6	24	133.5	134.2	135.1	23	129.8	130.6	131.1	24	135.7	136.5	136.4	23	05/21
05/22	125.4	126.3	126.6	24	136.4	136.9	137.4	24	134.7	135.6	136.5	24	134.5	134.9	136.2	24	130.3	131.4	132.5	24	135.8	136.3	136.7	23	05/22
05/23	126.4	126.9	127.6	23	136.6	137.0	137.8	23	135.3	135.8	136.0	23	134.5	135.6	135.2	21	130.9	131.4	131.6	22	136.1	136.4	136.4	21	05/23

**Total Dissolved Gas Saturation(%) - Average of
12 Highest Hours, 24 Hours Average and 24 Hours High
(Washington Calculation)**

Total Dissolved Gas Data at Upper and Mid-Columbia Sites

Date	Wanapum				Wanapum Tlwr				Priest Rapids				Priest R. Dnstr				Pasco				Date
	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	
05/10	119.7	121.3	120.8	24	125.9	129.0	127.5	24	124.5	127.9	130.1	24	123.8	125.0	124.6	24					05/10
05/11	121.1	122.3	123.3	24	129.6	130.9	133.7	24	123.9	126.8	127.5	24	123.5	125.1	125.8	24					05/11
05/12	125.4	127.2	128.2	24	136.6	137.5	140.4	24	131.8	133.8	134.3	24	128.1	129.4	129.7	24					05/12
05/13	130.3	131.3	132.1	24	140.9	141.1	141.5	24	136.8	138.2	138.6	24	130.4	131.3	131.8	24					05/13
05/14	132.0	133.2	134.2	24	141.0	141.4	142.7	24	137.9	138.3	139.0	24	131.6	131.7	131.8	4					05/14
05/15	134.3	134.8	135.8	24	142.3	142.4	142.5	24	139.5	140.0	140.4	24				0					05/15
05/16	133.6	134.8	134.5	24	141.9	142.2	142.3	24	138.0	139.7	139.0	24	132.0	132.1	132.4	15					05/16
05/17	131.8	133.2	133.5	24	140.5	141.8	142.0	24	137.1	138.4	139.2	24	130.4	132.1	131.9	24					05/17
05/18	130.2	131.4	131.3	24	139.3	140.8	141.9	24	136.4	137.9	138.0	24	130.6	131.3	131.3	24					05/18
05/19	131.8	132.6	133.0	24	136.8	138.3	138.8	24	134.7	136.4	136.9	24	129.3	130.5	130.0	24					05/19
05/20	132.0	132.7	133.4	24	138.8	138.9	139.3	24	136.0	136.5	136.9	24	130.2	130.5	130.8	24					05/20
05/21	131.6	133.0	133.7	24	138.3	139.0	139.2	24	134.9	136.1	136.7	24	129.6	130.5	130.8	24					05/21
05/22	133.6	134.5	134.9	24	139.5	140.0	141.1	24	137.2	138.0	139.0	24	131.0	131.7	131.9	24					05/22
05/23	134.2	135.0	136.5	24	140.0	141.0	141.3	24	137.8	138.7	139.4	24	131.7	132.2	132.7	24					05/23

Total Dissolved Gas Data at Snake and Clearwater Sites

Date	Dworshak				Clrwr Peck				Anatone				Clrwr-Lewiston				Lower Granite				Lower G. Tlwr				Date
	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	
05/10	100.0	100.7	101.4	24	103.4	104.0	104.5	24	106.5	107.1	107.5	24	103.0	103.5	103.9	24	105.3	106.0	106.0	24	119.1	120.7	121.5	24	05/10
05/11	99.8	100.4	100.9	24	102.1	104.0	103.2	24	106.7	107.0	107.2	24	102.7	103.6	103.4	24	104.7	105.0	105.1	24	119.8	121.0	120.8	24	05/11
05/12	101.0	102.4	104.8	24	100.5	101.9	101.2	24	106.9	107.6	108.4	24	103.3	104.2	105.0	24	105.7	106.2	106.4	24	118.1	119.3	120.2	24	05/12
05/13	101.8	103.4	106.6	24	98.6	100.6	100.0	24	106.0	107.4	107.4	24	102.8	104.1	104.0	24	106.3	106.5	106.8	24	115.5	117.6	119.8	24	05/13
05/14	101.0	102.3	102.8	24	97.6	98.7	98.3	24	105.8	106.6	107.4	24	102.9	103.8	104.4	24	106.2	106.7	106.8	24	115.1	115.4	115.7	24	05/14
05/15	101.3	102.4	103.2	24	100.4	103.7	105.6	24	105.8	106.6	107.2	24	103.1	103.8	104.4	24	105.9	106.1	106.3	24	114.6	115.1	115.0	24	05/15
05/16	100.7	101.9	101.5	23	103.5	104.8	104.8	24	105.6	106.5	106.7	24	102.2	103.8	102.9	24	105.6	106.1	106.2	24	114.5	114.8	114.7	24	05/16
05/17	100.7	101.1	101.6	24	103.7	104.3	104.5	24	105.7	106.0	106.4	24	102.5	102.7	103.2	24	104.5	105.4	105.5	24	116.5	117.3	118.0	24	05/17
05/18	100.8	101.3	104.9	24	103.4	104.2	103.8	24	106.3	106.9	107.5	24	102.4	102.8	103.1	24	104.3	104.5	104.7	24	117.7	118.0	118.1	24	05/18
05/19	102.3	102.9	106.5	24	104.1	105.1	105.6	24	107.1	107.9	108.5	24	103.0	103.8	104.4	24	104.8	105.3	105.9	24	117.7	118.1	118.3	24	05/19
05/20	101.2	101.9	102.8	24	103.7	105.0	104.7	24	107.0	107.8	107.7	24	102.8	103.8	103.7	24	105.8	106.2	106.6	24	117.8	118.4	120.6	24	05/20
05/21	104.4	108.1	109.7	24	103.8	104.8	105.3	24	107.0	107.6	108.2	24	102.8	103.5	104.0	24	105.9	106.4	106.4	24	117.7	118.4	120.1	24	05/21
05/22	110.2	111.0	111.9	24	104.8	105.9	106.7	24	107.8	108.7	109.5	24	103.6	104.4	105.0	24	106.0	106.4	106.8	24	117.0	118.1	118.2	24	05/22
05/23	107.2	111.0	112.1	23	104.7	105.9	105.6	23	107.5	108.6	108.3	23	103.5	104.4	104.3	23	106.8	107.1	107.5	23	118.8	120.0	121.9	23	05/23

**Total Dissolved Gas Saturation(%) - Average of
12 Highest Hours, 24 Hours Average and 24 Hours High
(Washington Calculation)**

Date 5/24/2018 5:15:09 PM

Total Dissolved Gas Data at Lower Snake Sites

Date	Little Goose				L. Goose Tlwr				Lower Mon.				Lwr. Mon. Tlwr				Ice Harbor				Tlwr Ice Harbor				Date
	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	
05/10	109.6	111.5	110.7	24	121.2	123.5	124.3	24	116.7	118.6	120.0	24	123.9	126.2	127.7	24	118.0	119.0	119.0	24	123.0	124.2	125.9	24	05/10
05/11	110.6	111.1	111.9	24	122.3	123.5	122.9	24	120.4	122.3	123.2	24	123.4	126.8	127.1	24	119.0	119.9	120.8	24	122.5	124.6	124.0	24	05/11
05/12	114.6	115.8	116.7	24	119.7	122.6	121.4	24	123.6	124.4	124.6	24	119.3	120.8	121.2	24	121.5	121.7	122.1	24	121.2	122.1	122.4	24	05/12
05/13	115.5	116.1	116.2	24	117.1	118.6	119.4	24	123.1	124.5	124.3	24	115.6	117.9	118.7	24	121.3	121.7	121.8	24	119.2	120.1	119.7	24	05/13
05/14	115.1	115.5	116.2	24	115.4	116.8	116.7	24	119.5	122.3	121.4	24	117.0	119.1	120.1	24	120.4	121.3	120.9	24	119.0	119.1	119.4	24	05/14
05/15	113.8	114.8	114.2	24	116.0	117.5	119.6	24	118.0	119.5	119.4	24	118.6	119.2	120.5	24	119.6	120.6	120.4	24	119.4	119.8	121.0	24	05/15
05/16	113.2	113.8	113.8	24	116.2	117.7	118.2	24	115.9	117.6	117.5	24	118.5	119.8	121.0	24	118.1	119.5	119.3	24	120.2	120.5	121.0	24	05/16
05/17	111.5	112.8	112.6	24	118.9	119.3	120.1	24	116.4	117.0	117.7	24	120.6	121.0	121.8	24	116.3	117.5	116.9	24	121.2	121.5	121.8	24	05/17
05/18	110.6	111.2	111.7	24	119.9	120.0	120.3	24	119.6	120.7	120.9	24	120.8	120.9	121.3	24	117.2	117.5	117.8	24	121.4	121.6	122.0	24	05/18
05/19	112.1	112.6	113.1	24	123.2	125.8	126.9	24	121.1	121.6	122.2	24	120.8	120.9	121.6	24	118.7	119.5	120.2	24	122.4	123.2	123.3	24	05/19
05/20	113.7	114.3	114.7	24	120.0	122.8	120.5	24	125.1	126.9	127.8	24	121.0	121.4	122.6	24	120.3	120.4	120.6	24	121.5	121.9	122.2	24	05/20
05/21	113.6	114.3	114.1	24	120.0	120.5	121.2	24	121.1	125.3	122.1	24	121.0	121.4	124.0	24	120.7	121.2	121.5	24	121.2	122.0	122.2	24	05/21
05/22	114.0	114.2	114.5	24	120.1	120.6	120.8	24	121.4	121.9	122.8	24	121.2	121.5	122.3	24	120.3	121.2	120.8	24	121.5	122.2	122.5	24	05/22
05/23	114.6	114.9	115.2	23	121.7	123.3	124.0	23	121.7	122.6	123.1	23	126.0	127.9	128.9	23	120.6	120.8	120.9	23	122.8	123.8	124.4	23	05/23

Total Dissolved Gas Data at Mid-Columbia Sites

Date	McNary-Wash.				Tlwr McNary				John Day				Tlwr John Day				The Dalles				Dnstr T. Dalles				Date
	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	
05/10	115.6	117.2	116.3	24	123.7	123.7	124.1	24	117.8	119.1	119.2	24	125.8	126.0	126.3	24	119.5	119.9	120.2	24	121.7	122.4	123.0	24	05/10
05/11	116.1	117.3	117.9	24	125.4	126.6	127.0	24	114.8	116.9	115.7	24	127.5	128.2	128.6	24	119.4	121.2	122.3	24	121.4	122.4	122.9	24	05/11
05/12	117.9	118.7	119.1	24	128.2	129.3	131.8	24	116.4	117.6	118.4	24	131.2	132.4	132.9	24	124.0	126.1	127.4	24	124.6	125.7	126.1	24	05/12
05/13	120.5	121.8	122.2	24	130.3	131.3	131.8	24	122.3	124.7	125.4	24	131.3	132.5	132.8	24	126.5	127.7	128.3	24	126.1	126.5	127.1	24	05/13
05/14	122.5	123.6	124.0	23	131.0	132.0	133.5	24	127.1	128.7	129.3	24	130.4	132.5	133.4	24	126.6	128.2	130.1	24	125.7	126.5	127.2	24	05/14
05/15	125.0	125.9	126.5	24	133.5	133.6	133.9	24	129.7	130.6	131.2	24	131.4	132.2	132.2	24	129.1	129.6	130.7	24	126.7	127.0	127.3	24	05/15
05/16	123.9	125.9	125.2	24	133.2	133.6	133.9	24	128.3	130.5	129.4	24	132.2	133.0	133.5	21	125.0	129.2	126.0	24	124.3	126.7	125.6	24	05/16
05/17	122.0	123.3	122.3	24	130.2	132.8	132.3	24	124.1	128.0	126.6	24	133.3	133.4	133.7	12	124.4	125.3	126.7	24	123.0	124.0	123.7	24	05/17
05/18	122.3	122.6	122.7	24	129.9	130.2	130.5	24	121.1	122.6	121.9	24	133.1	133.4	133.7	24	126.4	128.1	128.6	24	124.2	125.1	125.6	24	05/18
05/19	122.8	123.6	124.0	24	130.0	130.0	130.6	24	123.2	124.7	125.3	24	132.8	133.0	133.6	24	128.2	128.9	129.5	24	125.4	125.7	126.2	24	05/19
05/20	123.1	123.7	123.8	24	130.0	130.2	130.5	24	126.0	126.5	126.9	24	133.3	133.4	133.9	24	127.1	128.9	128.2	24	124.8	125.8	125.4	24	05/20
05/21	122.3	123.0	123.4	24	130.2	130.4	130.7	24	126.0	126.5	126.8	24	133.3	133.4	134.0	24	127.5	129.2	129.9	24	124.9	125.3	125.6	24	05/21
05/22	122.8	123.4	123.7	24	130.4	130.5	131.0	24	126.6	127.3	127.7	24	132.3	133.3	133.4	24	129.5	130.6	131.5	24	125.2	125.9	126.9	24	05/22
05/23	124.0	124.6	125.0	23	132.6	133.0	133.2	23	128.3	129.0	129.4	23	131.6	132.2	132.9	23	128.8	130.7	129.9	23	126.6	126.8	127.4	23	05/23

**Total Dissolved Gas Saturation(%) - Average of
12 Highest Hours, 24 Hours Average and 24 Hours High
(Washington Calculation)**

Date 5/24/2018 5:15:09 PM

Total Dissolved Gas Data at Mid-Columbia Sites

Date	Bonneville				Warrendale				Camas\Washug.				Cascade Isld.				Date
	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	24 h Avg	12 h Avg	High	# Hr	
05/10	121.1	121.8	121.9	24	124.2	124.3	124.7	24	122.0	122.9	123.1	24	124.3	124.3	124.5	24	05/10
05/11	118.6	120.9	120.0	24	123.7	124.2	125.0	24	121.0	122.0	122.2	24	125.1	125.8	126.6	24	05/11
05/12	121.9	123.3	124.5	24	126.7	127.7	128.1	24	123.7	125.3	125.8	24	127.2	127.9	128.2	24	05/12
05/13	127.2	128.1	128.6	24	129.7	130.2	130.3	24	127.5	129.1	129.9	24	128.1	128.2	128.3	6	05/13
05/14	128.1	128.4	128.7	24	130.4	130.8	131.3	24	129.0	130.1	130.8	24				0	05/14
05/15	125.3	128.2	127.2	24	130.2	130.9	130.7	24	128.4	130.0	129.2	24				0	05/15
05/16	121.1	123.9	122.2	24	129.2	130.1	130.1	24	127.9	128.5	128.6	24				0	05/16
05/17	119.4	120.7	120.2	24	127.7	128.6	128.3	24	126.1	128.3	127.5	24				0	05/17
05/18	121.4	122.8	123.4	24	128.8	129.4	129.7	24	126.3	126.9	127.3	24				0	05/18
05/19	125.8	126.5	126.9	24	130.6	130.9	131.3	24	128.3	129.2	129.7	24				0	05/19
05/20	124.4	126.5	126.1	24	129.4	130.7	129.8	24	127.8	129.2	128.6	24				0	05/20
05/21	123.0	123.7	123.6	24	129.1	129.4	129.6	24	127.2	127.8	128.4	24				0	05/21
05/22	126.5	128.1	128.7	24	131.2	131.8	132.4	24	128.9	130.5	131.3	24				0	05/22
05/23	127.6	128.7	128.8	23	131.2	131.6	131.6	23	129.6	130.5	130.6	23				0	05/23

Hours used in calculating values:

24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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