

**BROOKFIELD RENEWABLE POWER  
PINEY & DEEP CREEK, LLC**

**Deep Creek Hydroelectric Station**

**2009 Annual Report**

**Maryland Department of the Environment  
Water Appropriation and Use Permit No. GA1992S009(07)**

**January 2010**

**Brookfield**

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**1.0 SUMMARY**

Brookfield Renewable Power Piney & Deep Creek, LLC (Brookfield) holds a Water Appropriation and Use Permit (Permit), issued on April 1, 2007, that provides for the continued operation of the Deep Creek Hydroelectric Station. Permit Condition 23 requires Brookfield to submit an annual report to the Maryland Department of the Environment (MDE), which includes data and information as specified in the Permit Conditions listed below:

- Lake level monitoring (Condition 15)
- Temperature monitoring (Condition 16)
- Minimum flow release monitoring (Condition 17)
- Dissolved oxygen (DO) monitoring (Condition 18)
- Releases unsuitable for whitewater recreation (Condition 19)
- Zebra mussel monitoring (Condition 21)

**1.1 Lake Level Monitoring**

**1.1.1 End-of-Month Levels**

Appendix A contains daily water level data for 2009 in tabular and graphical format. Deep Creek Lake levels did not exceed the desired end-of-month Upper Rule Band (URB) or the desired end-of-month Lower Rule Band (LRB) during 2009. Reservoir levels were below the URB at the end of each month for 2009 as follows:

**TABLE 1 - Lake Level (in feet) Below URB**

<b>MONTH OF YEAR</b>	<b>FEET ABOVE (+) or BELOW (-) URB</b>
January	-0.4
February	-0.6
March	-1.6
April	-0.4
May	-0.2
June	-0.3
July	-0.3
August	-0.5
September	-1.2
October	-0.6
November	-1.0
December	-1.1

### 1.1.2 Daily Levels

The following describes each daily variance of the URB and LRB. Appendix A provides a graphical and tabular summary of these daily variances.

- Deep Creek Lake was within the URB and LRB between elevations 2,455.0 feet mean sea level (MSL) and 2,457.9 feet MSL from January 1 through January 7.
- The watershed received over 1.65 inches of rain January 6 through January 8, and on January 8, the lake level spiked 0.2 feet above the rule band to 2458.1 feet MSL.
- The lake level remained within the URB and LRB from January 9 to February 9.
- On February 8 and February 9, the watershed received .49 inches of precipitation, causing the reservoir to rise 0.1 feet above the URB to 2458.0 feet MSL on February 10 and remain until February 11. A maximum of 2,458.2 feet MSL was reached February 12.
- The watershed only received 2.24 inches of precipitation during March. From March 21 through March 28 the lake level fell below the LRB, reaching its lowest point on March 25 at 2457.4 feet MSL, -0.21 feet below the LRB.
- Deep Creek Lake remained within the URB and LRB from March 29 through May 3.
- Between May 1 and May 9, the Deep Creek watershed received over 3.63 inches of precipitation, causing the reservoir to rise above the URB May 4 through May 9. A maximum elevation of 2,461.4 feet MSL occurred May 5 through May 7.
- Deep Creek Lake remained between the URB and LRB from May 10 through December 31.

### 1.2 Temperature Monitoring

Brookfield monitored water temperature in the Youghiogheny River in accordance with the Deep Creek Station Water Temperature Enhancement Plan (approved June 8, 1996, revised September



2001 and January 2009).<sup>1</sup> The plan was designed to maintain river water temperatures below 25 degrees Celsius (°C) in the Youghiogheny River.

By letters dated July 7, August 7, and September 9, 2009, Brookfield provided the MDE with temperature excursion dates at the Sang Run temperature monitoring station, and an explanation for those excursions. The primary reason for these excursions was due to the inherent unpredictability of the model. This model attempts to predict future temperatures of the Youghiogheny River, based on forecasted air temperature, cloud cover factor, cloud cover forecast, river flow, and actual water temperature readings. Due to the multitude of parameters used in the predictions, inherent variability in the predicted temperatures exists.

Brookfield released water on 21 days in 2009, four of which were a combined temperature enhancement and whitewater release. Temperature enhancement releases occurred on July 12, 15, 16, 21, 25, 26, 27, and 28 and August 6, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 26, and 27. Combined releases occurred on July 25 and 27 and August 10, 14, 15 and 17.

The temperature enhancement protocol predicted water temperatures in excess of 25°C on July 8, 12, 15, 16, 21, 23, 26 and August 12, 16, 19, 20, 25 and 26. Appendix B presents the Sang Run temperature excursion dates, the duration of each excursion, an explanation for the excursion, and the maximum temperature for each date, during the period of June 1 through August 31, 2009.

Brookfield did not release water from June 1 through June 14, from June 17 through June 27, July 2, and July 31 through August 3, in accordance with the Water Temperature Enhancement Plan, as the flow at the Oakland gage was above 100 cubic feet per second (cfs).

Please note as previously reported the Sang Run Temperature Monitor was out of service from 18:00 on July 26 until 8:00am on August 11. In addition, a Youghiogheny River Water

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<sup>1</sup> By letter dated January 9, 2009, MDE provided Brookfield a copy of the January 2009 revision to the Deep Creek Station Youghiogheny River Water Temperature Enhancement Plan, and notified Brookfield that MDE planned to formally adopt the revised protocol on February 1, 2009. By letter dated January 30, 2009, Brookfield notified MDE that Brookfield concurred with the Revised Temperature Enhancement Plan protocol and would incorporate these changes into the model for the 2009 temperature monitoring period.

Temperature Enhancement Plan log sheet was not completed for July 20, however a review of the Sang Run Water Temperature Monitoring data indicates that temperatures did not exceed 25°C and a scheduled whitewater release was made from 11:00 to 14:00.

Temperature release dates are listed in Table 2, and Appendix B presents results of the temperature monitoring at Sang Run for June through August, and the daily Deep Creek Station Water Temperature Enhancement Plan data sheets.

**TABLE 2 – Temperature Enhancement Plan Release Dates**

<b>2009 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES</b>			
<b>DATE</b>	<b>START TIME</b>	<b>STOP TIME</b>	<b>RIVER FLOW (CFS)</b>
July 12	15:30	17:30	27
July 15	14:00	15:30	19
July 16	12:30 15:00	14:30 18:00	18
July 21	15:00	16:00	42
July 26	14:00	16:00	32
July 28	12:30	14:30	24
August 6	14:15	16:15	53
August 9	11:00	13:00	29
August 11	11:00	18:00	31
August 13	12:00	14:30	37
August 16	12:30	15:00	19
August 18	12:30	14:30	19
August 19	12:30	14:30	24
August 20	14:15	16:15	21
August 26	14:00	15:00	18
August 27	15:00	16:00	17

<b>2009 COMBINED TEMPERATURE ENHANCEMENT PLAN AND WHITEWATER RELEASES</b>		
<b>DATE</b>	<b>START TIME</b>	<b>STOP TIME</b>
July 25	10:00	16:00
July 27	11:00	3:00
August 10	11:00	18:00
August 14	14:15	16:15
August 15	11:00	14:00
August 17	11:00	16:00

### **1.3 Minimum Flow Release Monitoring**

Brookfield operated the flow bypass in accordance with the Deep Creek Station Flow Bypass Operation Protocol (May 1995, revised September 2001). The flow bypass protocol requires Brookfield to maintain a minimum flow of 40 cfs in the Youghiogheny River immediately downstream of the tailrace. Starting January 1 and continuing through December 31, Brookfield monitored the river flows at the Oakland gage. As required by the protocol, when calculated flows downstream of the tailrace are below 40 cfs, Brookfield may be required to open a bypass valve to release enough water to maintain 40 cfs.

The precipitation for 2009 was below average. Brookfield provided bypass flow to the Youghiogheny River below the project tailrace on 40 days.

The table in Appendix C summarizes flow bypass data for July through October 2009, when flows in the Youghiogheny River were less than 26 cfs. Flow data were obtained from the U.S. Geological Survey (USGS) recording at the Oakland gage, direct readings from the Oakland gage, or from the tailrace gage at the station, per guidance provided in the protocol. Valve openings (see Appendix C) were determined from Table 3 of the protocol and were based on station operating status.

### **1.4 Dissolved Oxygen Monitoring**

Brookfield operated the dissolved oxygen (DO) enhancement weir during 2009 in accordance with the Dissolved Oxygen Enhancement Operations and Monitoring Protocol approved by the MDE on January 6, 1995. In June, instantaneous DO measurements ranged from a low of 6.30 mg/L on June 26 to a high of 9.94 mg/L on June 1. In July, instantaneous DO measurements ranged from a low of 4.20 mg/L on July 31 to a high of 7.27 mg/L on July 24. In August, instantaneous DO measurements ranged from a low of 2.74 mg/L on August 22 to a high of 7.20 mg/L on August 7. In September, instantaneous DO measurements ranged from a low of 5.28 mg/L on September 28 to a high of 7.76 mg/L on September 29. All data obtained from DO monitoring in 2009 are included in Appendix D.

## **1.5 Releases Unsuitable for Whitewater Recreation**

Permit Condition 19 outlines several operating rules designed to enhance whitewater boating opportunities in the Youghiogheny River.

Permit Condition 19.A provides a standard whitewater release (WWR) schedule, a special WWR schedule, and a provision that allows Brookfield to combine temperature enhancement releases with scheduled WWR. These conditions apply from April 15 through October 15, annually.

Permit Condition 19.B provides additional operating rules that place conditions on the operations of the Deep Creek facility, based on flows at the Friendsville gage and Deep Creek Lake levels.

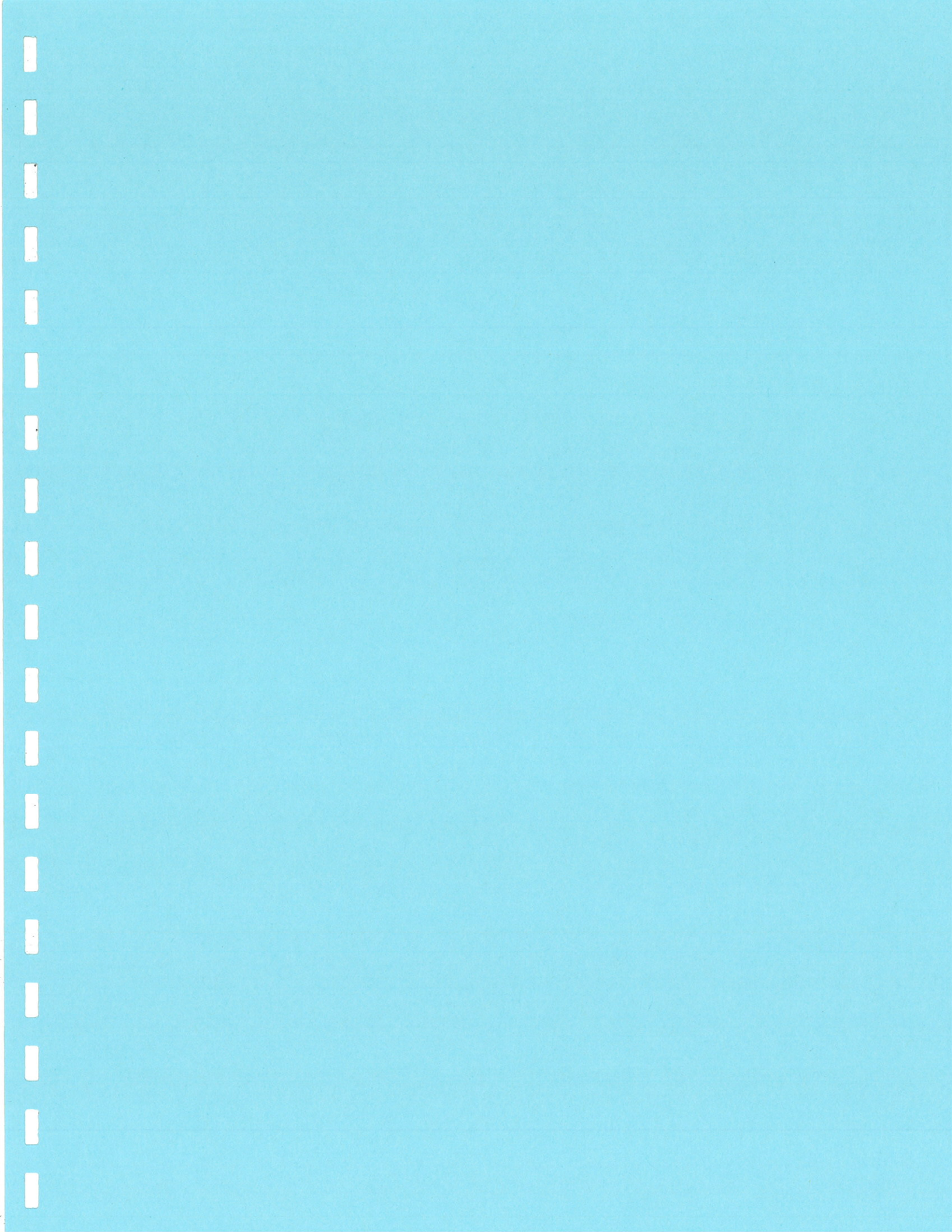
More specifically, Permit Condition 19.B.V allows Brookfield to employ either a “3<sup>rd</sup> Hour Regulation” or an “All Hour Regulation” approach for plant operations, in addition to the previously referenced conditions. Details of these permit conditions can be found in Appendix E.

Brookfield is unaware of any releases in 2009 during scheduled or special whitewater periods that were unsuitable for whitewater recreation.

## **1.6 Zebra Mussel Monitoring**

Artificial substrates placed at the station intake area during 2009 showed no signs of zebra mussel infestation. Appendix F contains the 2009 Zebra Mussel Monitoring Report data sheets.

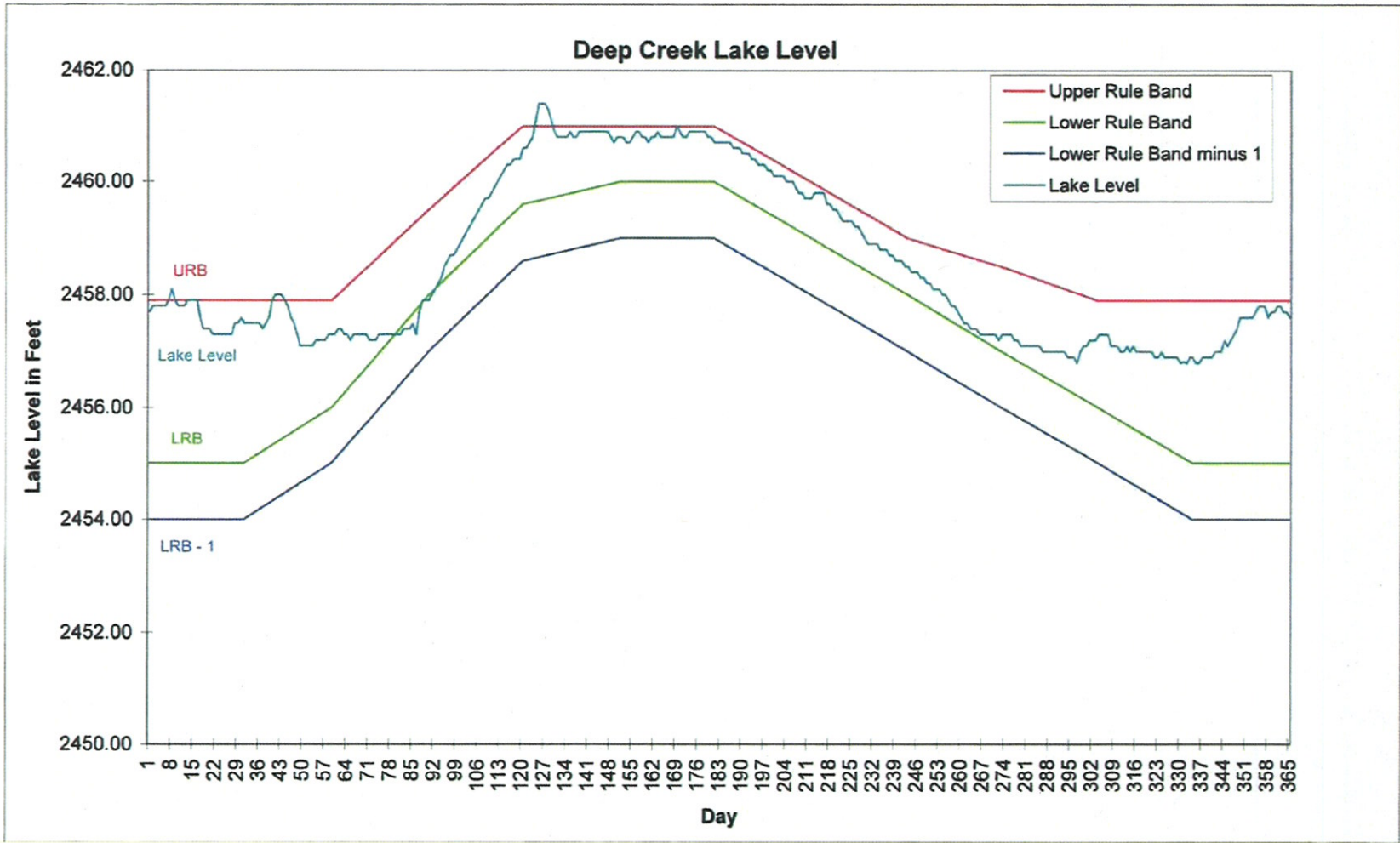




**APPENDIX A**

**DEEP CREEK LAKE LEVEL GRAPH AND  
DEEP CREEK DAILY LAKE LEVEL DATA TABLES**





DEEP CREEK LAKE LEVEL GRAPH - 2009

**Deep Creek Daily Lake Level 2009**

Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Jan	1	2457.7	0.00	Feb	1	2457.5	0.00	Mar	1	2457.3	0.05
	2	2457.8	0.02		2	2457.5	0.02		2	2457.4	0.00
	3	2457.8	0.00		3	2457.5	0.03		3	2457.4	0.00
	4	2457.8	0.17		4	2457.5	0.03		4	2457.3	0.00
	5	2457.8	0.03		5	2457.5	0.02		5	2457.3	0.00
	6	2457.8	0.38		6	2457.4	0.00		6	2457.2	0.00
	7	2457.9	0.97		7	2457.5	0.03		7	2457.3	0.00
	8	2458.1	0.30		8	2457.6	0.46		8	2457.3	0.00
	9	2457.9	0.02		9	2457.9	0.00		9	2457.3	0.00
	10	2457.8	0.63		10	2458.6	0.67		10	2457.3	0.00
	11	2457.8	0.17		11	2458.0	0.38		11	2457.3	0.00
	12	2457.8	0.04		12	2458.0	0.19		12	2457.2	0.00
	13	2457.9	0.05		13	2457.9	0.00		13	2457.2	0.00
	14	2457.9	0.06		14	2457.8	0.07		14	2457.2	0.02
	15	2457.9	0.05		15	2457.6	0.00		15	2457.3	0.02
	16	2457.9	0.02		16	2457.5	0.00		16	2457.3	0.07
	17	2457.6	0.00		17	2457.3	0.00		17	2457.3	0.00
	18	2457.4	0.22		18	2457.1	0.25		18	2457.3	0.00
	19	2457.4	0.05		19	2457.1	0.15		19	2457.3	0.02
	20	2457.4	0.02		20	2457.1	0.10		20	2457.3	0.00
	21	2457.3	0.00		21	2457.1	0.05		21	2457.3	0.00
	22	2457.3	0.00		22	2457.1	0.09		22	2457.3	0.00
	23	2457.3	0.00		23	2457.2	0.07		23	2457.4	0.00
	24	2457.3	0.00		24	2457.2	0.00		24	2457.4	0.00
	25	2457.3	0.02		25	2457.2	0.00		25	2457.4	0.55
	26	2457.3	0.02		26	2457.2	0.00		26	2457.5	0.75
	27	2457.3	0.10		27	2457.3	0.22		27	2457.3	0.47
	28	2457.5	1.41		28	2457.3	0.00		28	2457.7	0.09
	29	2457.5	0.00		29				29	2457.9	0.15
	30	2457.6	0.06						30	2457.9	0.05
	31	2457.5	0.00						31	2457.9	0.00
<b>Total</b>			<b>4.81</b>				<b>2.83</b>				<b>2.24</b>



**Deep Creek Daily Lake Level 2009**

<b>Month</b>	<b>Day</b>	<b>Lake Level (feet msl)</b>	<b>Rainfall (inches)</b>	<b>Month</b>	<b>Day</b>	<b>Lake Level (feet msl)</b>	<b>Rainfall (inches)</b>	<b>Month</b>	<b>Day</b>	<b>Lake Level (feet msl)</b>	<b>Rainfall (inches)</b>
<b>Apr</b>	1	2458.0	0.14	<b>May</b>	1	2460.6	0.83	<b>Jun</b>	1	2460.8	0.00
	2	2458.1	0.00		2	2460.7	0.07		2	2460.7	0.26
	3	2458.2	1.44		3	2460.8	1.38		3	2460.7	0.10
	4	2458.3	0.00		4	2461.1	.46		4	2460.8	0.62
	5	2458.5	0.00		5	2461.4	.25		5	2460.9	0.36
	6	2458.6	0.36		6	2461.4	.64		6	2460.9	0.00
	7	2458.7	0.17		7	2461.4	0.00		7	2460.8	0.00
	8	2458.7	0.09		8	2461.3	0.00		8	2460.8	0.00
	9	2458.8	0.00		9	2461.1	0.00		9	2460.7	0.75
	10	2458.9	0.00		10	2460.9	0.00		10	2460.8	0.00
	11	2459.0	0.65		11	2460.8	0.50		11	2460.80	0.25
	12	2459.1	0.00		12	2460.8	0.00		12	2460.90	0.65
	13	2459.2	0.10		13	2460.8	0.00		13	2460.80	0.00
	14	2459.3	0.08		14	2460.8	0.05		14	2460.80	0.00
	15	2459.4	0.35		15	2460.9	0.00		15	2460.80	0.00
	16	2459.5	0.17		16	2460.8	0.52		16	2460.80	0.00
	17	2459.6	0.00		17	2460.8	0.00		17	2460.80	1.08
	18	2459.7	0.00		18	2460.9	0.00		18	2461.00	0.12
	19	2459.7	0.02		19	2460.9	0.00		19	2460.90	0.00
	20	2459.8	0.51		20	2460.9	0.00		20	2460.80	0.75
	21	2459.9	0.00		21	2460.9	0.00		21	2460.80	0.11
	22	2460.0	0.60		22	2460.9	0.00		22	2460.90	0.00
	23	2460.1	0.14		23	2460.9	0.62		23	2460.90	0.00
	24	2460.2	0.00		24	2460.9	0.00		24	2460.90	0.00
	25	2460.3	0.00		25	2460.9	0.02		25	2460.90	0.00
	26	2460.3	0.00		26	2460.9	0.20		26	2460.90	0.63
	27	2460.4	0.00		27	2460.9	0.85		27	2460.90	0.00
	28	2460.4	0.05		28	2460.8	0.30		28	2460.80	0.00
	29	2460.4	0.40		29	2460.7	0.05		29	2460.80	0.00
	30	2460.6	0.00		30	2460.8	0.00		30	2460.70	0.00
					31	2460.8	0.00				
<b>Total</b>			<b>5.27</b>				<b>6.74</b>				<b>5.68</b>

**Deep Creek Daily Lake Level 2009**

<b>Month</b>	<b>Day</b>	<b>Lake Level (feet msl)</b>	<b>Rainfall (inches)</b>	<b>Month</b>	<b>Day</b>	<b>Lake Level (feet msl)</b>	<b>Rainfall (inches)</b>	<b>Month</b>	<b>Day</b>	<b>Lake Level (feet msl)</b>	<b>Rainfall (inches)</b>
<b>Jul</b>	1	2460.70	0.62	<b>Aug</b>	1	2459.80	0.00	<b>Sep</b>	1	2458.40	0.00
	2	2460.70	0.15		2	2459.80	0.30		2	2458.40	0.00
	3	2460.70	0.09		3	2459.80	0.00		3	2458.40	0.00
	4	2460.70	0.05		4	2459.80	0.00		4	2458.30	0.00
	5	2460.70	0.03		5	2459.60	0.00		5	2458.30	0.00
	6	2460.60	0.00		6	2459.60	0.00		6	2458.20	0.05
	7	2460.60	0.00		7	2459.50	0.00		7	2458.20	0.00
	8	2460.60	0.00		8	2459.50	0.00		8	2458.10	0.00
	9	2460.50	0.00		9	2459.40	0.00		9	2458.10	0.00
	10	2460.50	0.00		10	2459.30	0.45		10	2458.10	0.00
	11	2460.50	0.00		11	2459.30	0.45		11	2458.00	0.00
	12	2460.40	0.00		12	2459.30	0.12		12	2458.00	0.00
	13	2460.40	0.00		13	2459.30	0.00		13	2457.90	0.00
	14	2460.30	0.00		14	2459.20	0.00		14	2457.80	0.00
	15	2460.30	0.00		15	2459.20	0.00		15	2457.80	0.00
	16	2460.30	0.00		16	2459.10	0.54		16	2457.70	0.00
	17	2460.20	0.40		17	2459.00	0.00		17	2457.60	0.00
	18	2460.20	0.00		18	2458.90	0.20		18	2457.50	0.00
	19	2461.10	0.00		19	2458.90	0.06		19	2457.50	0.00
	20	2460.10	0.28		20	2458.90	0.18		20	2457.40	0.00
	21	2460.10	0.02		21	2458.90	0.75		21	2457.40	0.02
	22	2460.10	0.00		22	2458.80	0.00		22	2457.40	0.00
	23	2460.00	0.05		23	2458.80	0.00		23	2457.30	0.14
	24	2460.00	0.00		24	2458.80	0.00		24	2457.30	0.06
	25	2460.00	0.00		25	2458.70	0.00		25	2457.30	0.65
	26	2459.90	0.23		26	2458.70	0.00		26	2457.30	0.45
	27	2459.80	0.00		27	2458.60	0.00		27	2457.30	0.92
	28	2459.80	0.00		28	2458.60	0.05		28	2457.30	0.33
	29	2459.70	0.48		29	2458.60	0.14		29	2457.20	0.45
	30	2459.70	0.02		30	2458.50	0.00		30	2457.30	0.70
	31	2459.70	0.97		31	2458.50	0.00				
<b>Total</b>			<b>3.39</b>				<b>3.24</b>				<b>3.77</b>

**Deep Creek Daily Lake Level 2009**

Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Oct	1	2457.30	0.00	Nov	1	2457.30	0.05	Dec	1	2456.80	0.00
	2	2457.30	0.25		2	2457.30	0.00		2	2456.80	0.65
	3	2457.30	0.00		3	2457.30	0.00		3	2456.90	0.45
	4	2457.20	0.00		4	2457.10	0.00		4	2456.90	0.00
	5	2457.20	0.00		5	2457.10	0.10		5	2456.90	0.30
	6	2457.10	0.00		6	2457.10	0.05		6	2456.90	0.00
	7	2457.10	0.10		7	2457.00	0.00		7	2457.00	0.00
	8	2457.10	0.00		8	2457.00	0.00		8	2457.00	1.70
	9	2457.10	0.90		9	2457.10	0.00		9	2457.00	0.10
	10	2457.10	0.32		10	2457.00	0.00		10	2457.20	0.03
	11	2457.10	0.00		11	2457.10	0.00		11	2457.10	0.00
	12	2457.10	0.00		12	2457.00	0.00		12	2457.20	0.00
	13	2457.00	0.00		13	2457.00	0.00		13	2457.30	0.40
	14	2457.00	0.00		14	2457.00	0.00		14	2457.40	0.00
	15	2457.00	0.75		15	2457.00	0.00		15	2457.60	0.02
	16	2457.00	0.12		16	2457.00	0.00		16	2457.60	0.00
	17	2457.00	0.23		17	2457.00	0.00		17	2457.60	0.00
	18	2457.00	0.08		18	2456.90	0.00		18	2457.60	0.08
	19	2457.00	0.00		19	2456.90	0.26		19	2457.60	0.85
	20	2457.00	0.00		20	2457.00	0.00		20	2457.70	0.03
	21	2456.90	0.00		21	2456.90	0.00		21	2457.80	0.05
	22	2456.90	0.00		22	2456.90	0.00		22	2457.80	0.00
	23	2456.90	0.45		23	2456.90	0.11		23	2457.80	0.00
	24	2456.80	1.57		24	2456.90	0.03		24	2457.60	0.00
	25	2457.00	0.00		25	2456.90	0.00		25	2457.70	0.25
	26	2457.10	0.00		26	2456.80	0.00		26	2457.70	0.03
	27	2457.10	0.30		27	2456.82	0.20		27	2457.80	0.02
	28	2457.20	0.32		28	2456.80	0.00		28	2457.80	0.11
	29	2457.20	0.00		29	2456.90	0.05		29	2457.70	0.00
	30	2457.20	0.00		30	2456.90	0.58		30	2457.70	0.05
	31	2457.30	0.15						31	2457.60	0.10
<b>Total</b>			<b>5.54</b>				<b>1.43</b>				<b>5.22</b>
										<b>Year Total</b>	<b>50.16</b>

**SUMMARY OF DAILY VARIANCES OF THE UPPER AND LOWER  
RULE BANDS - 2009**

**SUMMARY OF DAILY VARIANCES OF THE UPPER AND LOWER RULE BANDS – 2009**

<b>Date</b>	<b>Reservoir Level (feet)</b>	<b>Upper Rule Band (feet)</b>	<b>Lower Rule Band (feet)</b>	<b>Δ (feet)</b>
February 10	2458.0	2457.90	2455.36	+ 0.1
February 11	2458.0	2457.90	2455.39	+ 0.1
February 12	2458.1	2457.90	2455.43	+ 0.2
March 21	2457.3	2458.98	2457.35	- 0.05
March 22	2457.3	2459.04	2457.42	- 0.12
March 23	2457.4	2459.09	2457.48	- 0.08
March 24	2457.4	2459.14	2457.55	- 0.15
March 25	2457.4	2459.19	2457.61	- 0.21
March 26	2457.5	2459.24	2457.68	- 0.18
March 27	2457.3	2459.29	2457.74	- 0.44
March 28	2457.7	2459.35	2457.81	- 0.11
May 4	2461.1	2461.00	2459.65	+ 0.1
May 5	2461.4	2461.00	2459.66	+ 0.4
May 6	2461.4	2461.00	2459.68	+ 0.4
May 7	2461.4	2461.00	2459.69	+ 0.4
May 8	2461.3	2461.00	2459.70	+ 0.3
May 9	2461.1	2461.00	2459.72	+ 0.1





**APPENDIX B**

**DAILY RIVER WATER TEMPERATURES AT SANG RUN**

**TEMPERATURE ENHANCEMENT PLAN SANG RUN  
TEMPERATURE EXCURSIONS**

**TEMPERATURE ENHANCEMENT PLAN DAILY SHEETS**





Water temperature is measured from a temperature probe seasonally installed and maintained by Brookfield in the Youghiogheny River at the Sang Run Bridge. The instrument records water temperature at 10-minute intervals, has a monitoring accuracy of 0.1°C, and is calibrated in accordance with the manufacturer's instructions. Data is retrieved from the instrument by Brookfield's Hydro Control Center in Marlborough, Massachusetts via telephone modem.

Days when temperatures exceeded 25°C and days when temperature enhancement releases were made are summarized in the following tables. Daily Temperature Enhancement Plan sheets for each of these dates are also included.



**DAILY RIVER WATER TEMPERATURES AT SANG RUN**



<u>Date</u>	<u>Time</u>	<u>Temperature</u>	<u>Battery State</u>
6/1/2009	0:00:00	16.27	13.07
	0:10:00	16.24	13.06
	0:20:00	16.18	13.05
	0:30:00	16.11	13.05
	0:40:00	16.07	13.04
	0:50:00	16.05	13.03
	1:00:00	16.00	13.04
	1:10:00	15.89	13.03
	1:20:00	15.89	13.02
	1:30:00	15.81	13.02
	1:40:00	15.78	13.01
	1:50:00	15.74	13.01
	2:00:00	15.65	13.01
	2:10:00	15.63	13.00
	2:20:00	15.59	13.00
	2:30:00	15.57	12.99
	2:40:00	15.44	12.99
	2:50:00	15.40	12.99
	3:00:00	15.41	12.99
	3:10:00	15.41	12.98
	3:20:00	15.32	12.98
	3:30:00	15.24	12.97
	3:40:00	15.22	12.97
	3:50:00	15.24	12.95
	4:00:00	15.17	12.96
	4:10:00	15.06	12.95
	4:20:00	15.09	12.95
	4:30:00	14.98	12.95
	4:40:00	15.02	12.94
	4:50:00	14.90	12.94
	5:00:00	14.98	12.93
	5:10:00	14.85	12.92
	5:20:00	14.79	12.92
	5:30:00	14.80	12.92
	5:40:00	14.76	12.91
	5:50:00	14.61	12.92
	6:00:00	14.69	12.93
	6:10:00	14.64	12.96
	6:20:00	14.61	13.01
	6:30:00	14.58	12.62
	6:40:00	14.54	12.89
	6:50:00	14.53	13.04
	7:00:00	14.44	13.17
	7:10:00	14.46	13.32
	7:20:00	14.43	13.52
	7:30:00	14.39	13.81
	7:40:00	14.11	15.00
	7:50:00	14.40	15.00
	8:00:00	14.80	15.00
	8:10:00	15.33	15.00

6//1/2009	8:20:00	15.47	15.00
	8:30:00	15.08	15.00
	8:40:00	14.87	15.00
	8:50:00	14.16	15.00
	9:00:00	14.46	15.00
	9:10:00	14.58	15.00
	9:20:00	14.63	15.00
	9:30:00	14.70	15.00
	9:40:00	14.80	15.00
	9:50:00	14.91	14.87
	10:00:00	14.93	14.84
	10:10:00	15.06	14.87
	10:20:00	15.20	14.72
	10:30:00	15.33	14.74
	10:40:00	15.45	14.70
	10:50:00	15.53	14.71
	11:00:00	15.73	14.63
	11:10:00	15.89	14.66
	11:20:00	16.05	14.77
	11:30:00	16.23	14.69
	11:40:00	16.43	14.59
	11:50:00	16.61	14.61
	12:00:00	16.81	14.58
	12:10:00	16.88	14.50
	12:20:00	17.10	14.59
	12:30:00	17.18	14.52
	12:40:00	17.41	14.38
	12:50:00	17.34	14.40
	13:00:00	17.27	14.43
	13:10:00	16.61	14.30
	13:20:00	15.66	14.32
	13:30:00	15.88	14.46
	13:40:00	16.09	14.23
	13:50:00	16.20	14.35
	14:00:00	16.32	14.25
	14:10:00	16.25	14.25
	14:20:00	16.39	14.16
	14:30:00	16.35	14.16
	14:40:00	16.39	14.17
	14:50:00	16.31	14.28
	15:00:00	16.40	14.27
	15:10:00	16.27	14.17
	15:20:00	16.21	14.14
	15:30:00	16.24	14.14
	15:40:00	16.29	14.28
	15:50:00	16.40	14.43
	16:00:00	16.44	14.30
	16:10:00	16.69	14.40
	16:20:00	16.86	14.32
	16:30:00	17.05	14.27
	16:40:00	17.11	14.22
	16:50:00	17.35	14.16

6/1/2009	17:00:00	17.50	14.14
	17:10:00	17.61	14.09
	17:20:00	17.72	14.09
	17:30:00	17.85	14.01
	17:40:00	17.89	14.05
	17:50:00	17.99	14.04
	18:00:00	18.18	13.99
	18:10:00	18.24	13.92
	18:20:00	18.35	13.92
	18:30:00	18.47	13.98
	18:40:00	18.54	14.01
	18:50:00	18.56	14.07
	19:00:00	18.54	14.08
	19:10:00	18.67	14.08
	19:20:00	18.66	13.98
	19:30:00	18.60	13.89
	19:40:00	18.59	13.89
	19:50:00	18.56	13.84
	20:00:00	18.50	13.80
	20:10:00	18.49	13.73
	20:20:00	18.47	13.65
	20:30:00	18.41	13.58
	20:40:00	18.34	13.50
	20:50:00	18.31	13.42
	21:00:00	18.26	13.35
	21:10:00	18.18	13.28
	21:20:00	18.12	13.23
	21:30:00	18.06	13.17
	21:40:00	17.94	13.12
	21:50:00	17.89	13.09
22:00:00	17.82	13.08	
22:10:00	17.79	13.08	
22:20:00	17.64	13.08	
22:30:00	17.64	13.09	
22:40:00	17.51	13.09	
22:50:00	17.51	13.09	
23:00:00	17.39	13.09	
23:10:00	17.36	13.08	
23:20:00	17.31	13.08	
23:30:00	17.23	13.08	
23:40:00	17.19	13.06	
23:50:00	17.14	13.07	
6/2/2009	0:00:00	17.10	13.07
	0:10:00	17.01	13.06
	0:20:00	17.01	13.05
	0:30:00	16.99	13.04
	0:40:00	16.94	13.04
	0:50:00	16.90	13.04
	1:00:00	16.86	13.03
	1:10:00	16.86	13.03
	1:20:00	16.80	13.02
	1:30:00	16.78	13.02

6/2/2009	1:40:00	16.71	13.02
	1:50:00	16.70	13.02
	2:00:00	16.69	13.01
	2:10:00	16.69	13.01
	2:20:00	16.67	13.00
	2:30:00	16.68	13.00
	2:40:00	16.66	13.00
	2:50:00	16.59	12.99
	3:00:00	16.59	12.98
	3:10:00	16.60	12.98
	3:20:00	16.57	12.98
	3:30:00	16.55	12.98
	3:40:00	16.57	12.98
	3:50:00	16.53	12.96
	4:00:00	16.53	12.97
	4:10:00	16.53	12.96
	4:20:00	16.51	12.96
	4:30:00	16.51	12.97
	4:40:00	16.51	12.96
	4:50:00	16.46	12.97
	5:00:00	16.46	12.95
	5:10:00	16.44	12.96
	5:20:00	16.44	12.95
	5:30:00	16.46	12.96
	5:40:00	16.44	12.96
	5:50:00	16.44	12.96
	6:00:00	16.40	12.97
	6:10:00	16.39	12.97
	6:20:00	16.39	12.97
	6:30:00	16.37	12.99
	6:40:00	16.36	13.04
	6:50:00	16.37	13.10
	7:00:00	16.40	13.23
	7:10:00	16.40	13.37
	7:20:00	16.40	13.50
	7:30:00	16.37	13.71
	7:40:00	16.44	13.72
	7:50:00	16.42	13.94
	8:00:00	16.44	14.01
	8:10:00	16.42	14.11
	8:20:00	16.51	14.31
	8:30:00	16.51	15.00
	8:40:00	17.00	15.00
	8:50:00	16.98	15.00
	9:00:00	16.63	14.97
	9:10:00	16.67	15.00
	9:20:00	16.76	14.69
	9:30:00	16.87	15.00
	9:40:00	16.95	14.96
	9:50:00	17.08	14.90
	10:00:00	17.24	14.86
	10:10:00	17.37	14.65



6/2/2009	10:20:00	17.52	14.70
	10:30:00	17.61	14.65
	10:40:00	17.76	14.60
	10:50:00	17.87	14.60
	11:00:00	18.00	14.56
	11:10:00	18.02	14.71
	11:20:00	18.26	14.67
	11:30:00	18.46	14.60
	11:40:00	18.53	14.49
	11:50:00	18.74	14.55
	12:00:00	18.85	14.56
	12:10:00	19.09	14.29
	12:20:00	19.30	14.55
	12:30:00	19.54	14.32
	12:40:00	19.75	14.41
	12:50:00	19.97	14.52
	13:00:00	20.08	14.12
	13:10:00	20.45	14.46
	13:20:00	20.72	14.40
	13:30:00	20.85	14.41
	13:40:00	21.09	14.38
	13:50:00	21.44	14.04
	14:00:00	21.58	14.37
	14:10:00	21.91	14.32
	14:20:00	22.15	14.30
	14:30:00	22.41	14.28
	14:40:00	22.57	14.22
	14:50:00	22.70	14.30
	15:00:00	22.97	14.06
	15:10:00	23.18	14.29
	15:20:00	23.18	14.10
	15:30:00	23.35	14.19
	15:40:00	23.35	13.98
	15:50:00	23.55	14.12
	16:00:00	23.44	13.97
	16:10:00	23.66	14.18
	16:20:00	23.77	14.04
	16:30:00	23.81	14.12
	16:40:00	23.70	13.98
	16:50:00	23.77	14.10
	17:00:00	23.72	14.03
	17:10:00	23.84	13.98
	17:20:00	23.80	13.96
	17:30:00	23.79	13.91
	17:40:00	23.71	13.84
	17:50:00	23.69	13.90
	18:00:00	23.61	13.89
	18:10:00	23.59	13.88
	18:20:00	23.64	13.93
	18:30:00	23.64	13.88
	18:40:00	23.57	13.83
	18:50:00	23.44	13.80

6/2/2009	19:00:00	23.36	13.77
	19:10:00	23.20	13.74
	19:20:00	23.05	13.71
	19:30:00	22.91	13.68
	19:40:00	22.77	13.62
	19:50:00	22.64	13.55
	20:00:00	22.49	13.50
	20:10:00	22.34	13.45
	20:20:00	22.09	13.40
	20:30:00	21.98	13.34
	20:40:00	21.79	13.27
	20:50:00	21.68	13.20
	21:00:00	21.52	13.16
	21:10:00	21.38	13.11
	21:20:00	21.27	13.09
	21:30:00	21.12	13.08
	21:40:00	20.97	13.09
	21:50:00	20.87	13.10
	22:00:00	20.71	13.10
	22:10:00	20.62	13.10
	22:20:00	20.51	13.10
	22:30:00	20.43	13.09
	22:40:00	20.32	13.09
	22:50:00	20.23	13.08
	23:00:00	20.16	13.08
23:10:00	20.07	13.08	
23:20:00	20.00	13.07	
23:30:00	19.88	13.07	
23:40:00	19.80	13.06	
23:50:00	19.74	13.06	
6/3/2009	0:00:00	19.67	13.05
	0:10:00	19.61	13.05
	0:20:00	19.53	13.04
	0:30:00	19.44	13.05
	0:40:00	19.44	13.04
	0:50:00	19.37	13.04
	1:00:00	19.32	13.04
	1:10:00	19.25	13.03
	1:20:00	19.19	13.03
	1:30:00	19.14	13.03
	1:40:00	19.09	13.03
	1:50:00	19.05	13.02
	2:00:00	19.01	13.02
	2:10:00	18.94	13.01
	2:20:00	18.92	13.02
	2:30:00	18.84	13.01
	2:40:00	18.82	13.01
	2:50:00	18.78	13.00
3:00:00	18.76	13.00	
3:10:00	18.71	12.99	
3:20:00	18.62	12.99	
3:30:00	18.60	12.98	

6/3/2009	3:40:00	18.58	12.99
	3:50:00	18.53	12.99
	4:00:00	18.52	12.99
	4:10:00	18.47	12.97
	4:20:00	18.42	12.98
	4:30:00	18.41	12.98
	4:40:00	18.37	12.97
	4:50:00	18.35	12.97
	5:00:00	18.35	12.97
	5:10:00	18.26	12.97
	5:20:00	18.22	12.97
	5:30:00	18.18	12.96
	5:40:00	18.17	12.97
	5:50:00	18.13	12.96
	6:00:00	18.13	12.97
	6:10:00	18.09	12.99
	6:20:00	18.09	13.04
	6:30:00	18.06	13.12
	6:40:00	18.06	13.21
	6:50:00	18.07	13.48
	7:00:00	18.06	13.53
	7:10:00	18.06	13.51
	7:20:00	18.07	13.63
	7:30:00	18.05	13.80
	7:40:00	18.08	13.98
	7:50:00	18.07	14.16
	8:00:00	18.11	14.39
	8:10:00	18.12	14.02
	8:20:00	18.13	13.98
	8:30:00	18.14	15.00
	8:40:00	18.11	14.41
	8:50:00	18.14	15.00
	9:00:00	18.13	15.00
	9:10:00	18.27	14.69
	9:20:00	18.30	14.58
	9:30:00	18.32	14.64
	9:40:00	18.36	14.60
	9:50:00	18.41	14.70
	10:00:00	18.52	14.70
	10:10:00	18.58	14.79
	10:20:00	18.61	15.00
	10:30:00	18.65	14.69
	10:40:00	18.73	14.54
	10:50:00	18.80	14.72
	11:00:00	18.83	14.62
	11:10:00	18.95	14.60
	11:20:00	18.98	14.55
	11:30:00	19.09	14.83
	11:40:00	19.22	14.63
	11:50:00	19.31	14.67
	12:00:00	20.32	15.00
	12:10:00	19.43	15.00

6/3/2009	12:20:00	19.91	15.00
	12:30:00	20.13	14.42
	12:40:00	20.37	14.82
	12:50:00	20.68	14.78
	13:00:00	20.74	14.63
	13:10:00	20.85	14.56
	13:20:00	21.14	14.65
	13:30:00	21.11	14.51
	13:40:00	21.20	14.49
	13:50:00	21.42	14.47
	14:00:00	21.51	14.36
	14:10:00	21.90	14.57
	14:20:00	22.01	14.49
	14:30:00	22.23	14.14
	14:40:00	22.19	14.15
	14:50:00	22.40	14.25
	15:00:00	22.43	14.30
	15:10:00	22.56	14.20
	15:20:00	22.46	14.09
	15:30:00	22.58	14.27
	15:40:00	22.69	14.27
	15:50:00	22.52	14.05
	16:00:00	22.35	13.96
	16:10:00	22.27	14.01
	16:20:00	22.25	14.08
	16:30:00	22.38	14.17
	16:40:00	22.23	14.14
	16:50:00	22.30	14.27
	17:00:00	22.21	14.05
	17:10:00	22.06	13.98
	17:20:00	21.95	13.99
	17:30:00	21.85	14.03
	17:40:00	21.80	13.89
	17:50:00	21.69	13.84
	18:00:00	21.59	13.73
	18:10:00	21.53	13.69
	18:20:00	21.36	13.73
	18:30:00	21.25	13.80
	18:40:00	21.17	13.75
	18:50:00	21.05	13.69
	19:00:00	20.91	13.67
	19:10:00	20.83	13.67
	19:20:00	20.73	13.67
	19:30:00	20.62	13.63
	19:40:00	20.57	13.61
	19:50:00	20.48	13.63
	20:00:00	20.42	13.65
	20:10:00	20.31	13.61
	20:20:00	20.23	13.54
	20:30:00	20.11	13.48
	20:40:00	20.03	13.41
	20:50:00	19.98	13.34

6/3/3009	21:00:00	19.88	13.28
	21:10:00	19.79	13.22
	21:20:00	19.73	13.17
	21:30:00	19.66	13.12
	21:40:00	19.57	13.09
	21:50:00	19.56	13.07
	22:00:00	19.44	13.07
	22:10:00	19.38	13.06
	22:20:00	19.38	13.08
	22:30:00	19.29	13.08
	22:40:00	19.24	13.08
	22:50:00	19.19	13.09
	23:00:00	19.10	13.08
	23:10:00	19.07	13.08
	23:20:00	19.02	13.08
	23:30:00	18.97	13.08
	23:40:00	18.92	13.07
23:50:00	18.86	13.07	
6/4/2009	0:00:00	18.84	13.07
	0:10:00	18.81	13.06
	0:20:00	18.74	13.06
	0:30:00	18.71	13.05
	0:40:00	18.69	13.05
	0:50:00	18.59	13.05
	1:00:00	18.61	13.05
	1:10:00	18.52	13.05
	1:20:00	18.48	13.04
	1:30:00	18.44	13.04
	1:40:00	18.41	13.04
	1:50:00	18.36	13.03
	2:00:00	18.30	13.04
	2:10:00	18.24	13.04
	2:20:00	18.21	13.03
	2:30:00	18.18	13.03
	2:40:00	18.13	13.02
	2:50:00	18.10	13.03
	3:00:00	18.03	13.01
	3:10:00	18.00	13.02
	3:20:00	17.99	13.01
3:30:00	17.93	13.01	
3:40:00	17.90	13.01	
3:50:00	17.86	13.00	
4:00:00	17.82	13.00	
4:10:00	17.82	12.99	
4:20:00	17.74	12.99	
4:30:00	17.70	12.98	
4:40:00	17.69	12.98	
4:50:00	17.69	12.97	
5:00:00	17.64	12.96	
5:10:00	17.61	12.96	
5:20:00	17.55	12.97	
5:30:00	17.55	12.96	

6/4/2009	5:40:00	17.52	12.96
	5:50:00	17.50	12.95
	6:00:00	17.52	12.95
	6:10:00	17.46	12.95
	6:20:00	17.44	12.96
	6:30:00	17.43	12.96
	6:40:00	17.42	12.68
	6:50:00	17.36	12.93
	7:00:00	17.38	13.00
	7:10:00	17.36	13.06
	7:20:00	17.29	13.10
	7:30:00	17.34	13.11
	7:40:00	17.29	13.12
	7:50:00	17.29	13.15
	8:00:00	17.25	13.19
	8:10:00	17.25	13.23
	8:20:00	17.26	13.24
	8:30:00	17.26	13.28
	8:40:00	17.25	13.35
	8:50:00	17.25	13.45
	9:00:00	17.20	13.54
	9:10:00	17.25	13.58
	9:20:00	17.23	13.21
	9:30:00	17.23	13.29
	9:40:00	17.25	13.53
	9:50:00	17.20	13.66
	10:00:00	17.20	13.76
	10:10:00	17.23	13.85
	10:20:00	17.22	14.01
	10:30:00	17.23	13.95
	10:40:00	17.22	13.91
	10:50:00	17.19	13.83
	11:00:00	17.22	13.91
	11:10:00	17.19	14.02
	11:20:00	17.19	14.09
	11:30:00	17.20	14.14
	11:40:00	17.15	14.32
	11:50:00	17.20	14.78
	12:00:00	17.16	14.43
	12:10:00	17.18	14.54
	12:20:00	17.18	14.55
	12:30:00	17.16	14.62
	12:40:00	17.16	14.56
	12:50:00	17.16	15.00
	13:00:00	16.93	15.00
	13:10:00	17.24	15.00
	13:20:00	17.23	14.67
	13:30:00	17.25	14.73
	13:40:00	17.29	15.00
	13:50:00	17.31	14.78
	14:00:00	17.38	14.87
	14:10:00	17.38	14.62

6/4/2009	14:20:00	17.32	14.57
	14:30:00	17.39	14.56
	14:40:00	17.37	14.68
	14:50:00	17.41	14.55
	15:00:00	17.43	14.58
	15:10:00	17.46	14.55
	15:20:00	17.46	14.53
	15:30:00	17.46	14.54
	15:40:00	17.49	14.54
	15:50:00	17.51	14.51
	16:00:00	17.55	14.50
	16:10:00	17.55	14.56
	16:20:00	17.53	14.52
	16:30:00	17.55	14.57
	16:40:00	17.56	14.56
	16:50:00	17.55	14.54
	17:00:00	17.54	14.47
	17:10:00	17.58	14.41
	17:20:00	17.55	14.36
	17:30:00	17.55	14.35
	17:40:00	17.48	14.29
	17:50:00	17.50	14.24
	18:00:00	17.42	14.22
	18:10:00	17.41	14.21
	18:20:00	17.32	14.23
	18:30:00	17.34	14.23
	18:40:00	17.27	14.23
	18:50:00	17.23	14.25
	19:00:00	17.20	14.17
	19:10:00	17.18	14.13
	19:20:00	17.14	14.09
	19:30:00	17.16	14.04
	19:40:00	17.07	13.98
	19:50:00	17.05	13.93
	20:00:00	17.01	13.87
	20:10:00	16.99	13.81
	20:20:00	16.94	13.74
	20:30:00	16.90	13.66
	20:40:00	16.86	13.60
	20:50:00	16.86	13.53
	21:00:00	16.81	13.47
	21:10:00	16.79	13.40
	21:20:00	16.77	13.34
	21:30:00	16.77	13.29
	21:40:00	16.72	13.23
	21:50:00	16.68	13.18
	22:00:00	16.66	13.14
	22:10:00	16.61	13.11
	22:20:00	16.61	13.09
	22:30:00	16.57	13.08
	22:40:00	16.55	13.10
	22:50:00	16.51	13.11

6/4/2009	23:00:00	16.48	13.11
	23:10:00	16.48	13.12
	23:20:00	16.46	13.12
	23:30:00	16.44	13.12
	23:40:00	16.42	13.12
	23:50:00	16.35	13.13
6/5/2009	0:00:00	16.33	13.12
	0:10:00	16.33	13.12
	0:20:00	16.29	13.12
	0:30:00	16.31	13.12
	0:40:00	16.24	13.12
	0:50:00	16.22	13.12
	1:00:00	16.23	13.10
	1:10:00	16.21	13.11
	1:20:00	16.22	13.11
	1:30:00	16.15	13.10
	1:40:00	16.13	13.10
	1:50:00	16.10	13.10
	2:00:00	16.12	13.09
	2:10:00	16.11	13.10
	2:20:00	16.11	13.09
	2:30:00	16.06	13.08
	2:40:00	16.08	13.08
	2:50:00	16.06	13.07
	3:00:00	16.07	13.08
	3:10:00	16.06	13.07
	3:20:00	16.07	13.07
	3:30:00	16.05	13.05
	3:40:00	16.04	13.06
	3:50:00	16.03	13.05
	4:00:00	15.97	13.05
	4:10:00	15.98	13.04
	4:20:00	15.98	13.04
	4:30:00	16.00	13.04
	4:40:00	15.96	13.03
	4:50:00	15.98	13.03
5:00:00	15.96	13.01	
5:10:00	15.94	13.02	
5:20:00	15.93	13.00	
5:30:00	15.92	13.01	
5:40:00	15.89	13.00	
5:50:00	15.89	13.00	
6:00:00	15.85	12.99	
6:10:00	15.83	13.00	
6:20:00	15.89	12.73	
6:30:00	15.78	12.91	
6:40:00	15.78	12.98	
6:50:00	15.77	13.01	
7:00:00	15.72	13.06	
7:10:00	15.74	13.11	
7:20:00	15.76	13.17	
7:30:00	15.72	13.21	



6/5/2009	7:40:00	15.70	13.36
	7:50:00	15.68	13.51
	8:00:00	15.68	13.66
	8:10:00	15.68	13.79
	8:20:00	15.68	13.87
	8:30:00	15.70	13.90
	8:40:00	15.64	13.89
	8:50:00	15.64	13.92
	9:00:00	15.61	14.07
	9:10:00	15.59	14.28
	9:20:00	15.59	14.18
	9:30:00	15.60	13.70
	9:40:00	15.57	13.69
	9:50:00	15.56	14.26
	10:00:00	15.57	14.94
	10:10:00	15.52	15.00
	10:20:00	15.46	15.00
	10:30:00	15.52	14.79
	10:40:00	15.52	15.00
	10:50:00	15.27	15.00
	11:00:00	15.46	14.91
	11:10:00	15.52	14.65
	11:20:00	15.50	14.66
	11:30:00	15.44	14.52
	11:40:00	15.46	14.63
	11:50:00	15.41	14.71
	12:00:00	15.39	14.69
	12:10:00	15.37	14.55
	12:20:00	15.37	14.66
	12:30:00	15.35	14.64
	12:40:00	15.33	14.66
	12:50:00	15.30	14.63
	13:00:00	15.30	14.56
	13:10:00	15.28	14.49
	13:20:00	15.28	14.51
	13:30:00	15.22	14.56
	13:40:00	15.23	14.49
	13:50:00	15.17	14.61
	14:00:00	15.16	14.52
	14:10:00	15.20	14.61
	14:20:00	15.18	14.56
	14:30:00	15.15	14.58
	14:40:00	15.16	14.45
	14:50:00	15.16	14.45
	15:00:00	15.16	14.52
	15:10:00	15.16	14.60
	15:20:00	15.12	14.55
	15:30:00	15.11	14.67
	15:40:00	15.13	14.46
	15:50:00	15.12	14.44
	16:00:00	15.09	14.46
	16:10:00	15.08	14.54

6/5/2009	16:20:00	15.05	14.59
	16:30:00	15.03	14.51
	16:40:00	15.05	14.53
	16:50:00	15.01	14.44
	17:00:00	14.64	14.43
	17:10:00	14.56	14.35
	17:20:00	14.94	14.34
	17:30:00	15.21	14.37
	17:40:00	15.38	14.31
	17:50:00	15.47	14.28
	18:00:00	15.58	14.25
	18:10:00	15.60	14.24
	18:20:00	15.64	14.20
	18:30:00	15.69	14.16
	18:40:00	15.66	14.11
	18:50:00	15.65	14.06
	19:00:00	15.65	14.00
	19:10:00	15.61	13.94
	19:20:00	15.63	13.94
	19:30:00	15.60	13.94
	19:40:00	15.59	13.93
	19:50:00	15.61	13.89
	20:00:00	15.61	13.85
	20:10:00	15.63	13.80
	20:20:00	15.58	13.73
	20:30:00	15.62	13.65
	20:40:00	15.41	13.59
	20:50:00	15.21	13.51
	21:00:00	15.11	13.45
	21:10:00	15.00	13.38
21:20:00	14.93	13.32	
21:30:00	14.91	13.26	
21:40:00	14.89	13.21	
21:50:00	14.87	13.16	
22:00:00	14.85	13.12	
22:10:00	14.85	13.10	
22:20:00	14.85	13.10	
22:30:00	14.78	13.10	
22:40:00	14.82	13.11	
22:50:00	14.78	13.12	
23:00:00	14.80	13.11	
23:10:00	14.76	13.13	
23:20:00	14.75	13.12	
23:30:00	14.78	13.12	
23:40:00	14.78	13.13	
23:50:00	14.76	13.12	
6/6/2009	0:00:00	14.74	13.12
	0:10:00	14.74	13.12
	0:20:00	14.74	13.12
	0:30:00	14.74	13.11
	0:40:00	14.74	13.12
	0:50:00	14.71	13.12

6/6/2009	1:00:00	14.74	13.11
	1:10:00	14.71	13.11
	1:20:00	14.69	13.11
	1:30:00	14.68	13.10
	1:40:00	14.69	13.09
	1:50:00	14.67	13.10
	2:00:00	14.67	13.09
	2:10:00	14.69	13.09
	2:20:00	14.71	13.09
	2:30:00	14.67	13.08
	2:40:00	14.69	13.07
	2:50:00	14.69	13.08
	3:00:00	14.67	13.07
	3:10:00	14.67	13.07
	3:20:00	14.65	13.06
	3:30:00	14.65	13.06
	3:40:00	14.65	13.05
	3:50:00	14.63	13.05
	4:00:00	14.63	13.05
	4:10:00	14.63	13.03
	4:20:00	14.58	13.04
	4:30:00	14.54	13.03
	4:40:00	14.58	13.03
	4:50:00	14.56	13.02
	5:00:00	14.54	13.01
	5:10:00	14.56	13.01
	5:20:00	14.54	13.00
	5:30:00	14.56	13.00
	5:40:00	14.50	12.99
	5:50:00	14.52	13.00
	6:00:00	14.50	13.01
	6:10:00	14.47	13.02
	6:20:00	14.45	13.05
	6:30:00	14.47	13.08
	6:40:00	14.47	13.10
	6:50:00	14.45	13.05
	7:00:00	14.43	13.19
	7:10:00	14.45	13.25
	7:20:00	14.43	13.46
	7:30:00	14.41	13.74
	7:40:00	14.41	13.94
	7:50:00	14.35	15.00
	8:00:00	14.44	14.83
	8:10:00	14.46	15.00
	8:20:00	15.52	15.00
	8:30:00	14.43	14.50
	8:40:00	15.38	15.00
	8:50:00	14.45	14.70
	9:00:00	15.34	15.00
	9:10:00	14.44	14.62
	9:20:00	14.49	14.68
	9:30:00	14.90	15.00

6/6/2009	9:40:00	14.55	14.57
	9:50:00	14.55	14.69
	10:00:00	14.59	15.00
	10:10:00	14.66	14.71
	10:20:00	14.73	14.73
	10:30:00	14.75	14.59
	10:40:00	14.86	14.73
	10:50:00	14.90	14.70
	11:00:00	14.92	14.67
	11:10:00	15.01	14.54
	11:20:00	15.01	14.67
	11:30:00	15.10	14.69
	11:40:00	14.97	14.65
	11:50:00	14.66	14.65
	12:00:00	15.02	14.61
	12:10:00	15.39	14.57
	12:20:00	15.69	14.54
	12:30:00	15.80	14.52
	12:40:00	16.09	14.50
	12:50:00	16.20	14.47
	13:00:00	16.31	14.46
	13:10:00	16.44	14.43
	13:20:00	16.48	14.41
	13:30:00	16.54	14.39
	13:40:00	16.52	14.38
	13:50:00	16.68	14.36
	14:00:00	16.71	14.34
	14:10:00	16.67	14.33
	14:20:00	16.79	14.32
	14:30:00	16.86	14.31
	14:40:00	16.90	14.30
	14:50:00	16.86	14.24
	15:00:00	16.94	14.27
	15:10:00	16.90	14.25
	15:20:00	16.90	14.24
	15:30:00	16.95	14.22
	15:40:00	16.91	14.21
	15:50:00	17.00	14.19
	16:00:00	16.99	14.18
	16:10:00	16.91	14.15
	16:20:00	17.00	14.13
	16:30:00	16.94	14.10
	16:40:00	16.93	14.09
	16:50:00	17.01	14.06
	17:00:00	17.02	14.02
	17:10:00	17.00	13.97
	17:20:00	16.98	13.92
	17:30:00	16.99	13.87
	17:40:00	16.94	13.82
	17:50:00	16.92	13.77
	18:00:00	16.89	13.75
	18:10:00	16.90	13.75

6/6/2009	18:20:00	16.87	13.75
	18:30:00	16.89	13.77
	18:40:00	16.84	13.78
	18:50:00	16.83	13.79
	19:00:00	16.92	13.76
	19:10:00	17.00	13.74
	19:20:00	17.03	13.75
	19:30:00	17.04	13.77
	19:40:00	17.04	13.79
	19:50:00	17.03	13.79
	20:00:00	17.02	13.76
	20:10:00	16.99	13.73
	20:20:00	16.98	13.68
	20:30:00	16.94	13.62
	20:40:00	16.89	13.55
	20:50:00	16.86	13.48
	21:00:00	16.81	13.41
	21:10:00	16.80	13.34
	21:20:00	16.80	13.28
	21:30:00	16.76	13.23
	21:40:00	16.77	13.18
	21:50:00	16.70	13.13
	22:00:00	16.67	13.09
	22:10:00	16.65	13.07
	22:20:00	16.64	13.05
	22:30:00	16.61	13.05
	22:40:00	16.56	13.05
	22:50:00	16.56	13.06
	23:00:00	16.58	13.06
	23:10:00	16.49	13.05
23:20:00	16.52	13.06	
23:30:00	16.47	13.05	
23:40:00	16.46	13.06	
23:50:00	16.46	13.05	
6/7/2009	0:00:00	16.42	13.04
	0:10:00	16.37	13.05
	0:20:00	16.37	13.03
	0:30:00	16.33	13.04
	0:40:00	16.31	13.04
	0:50:00	16.31	13.03
	1:00:00	16.27	13.02
	1:10:00	16.27	13.02
	1:20:00	16.22	13.03
	1:30:00	16.18	13.03
	1:40:00	16.16	13.01
	1:50:00	16.13	13.02
	2:00:00	16.11	13.02
	2:10:00	16.08	13.02
	2:20:00	16.05	13.01
	2:30:00	16.01	13.01
	2:40:00	15.98	12.99
2:50:00	15.92	13.01	

6/7/2009	3:00:00	15.89	12.99
	3:10:00	15.90	13.00
	3:20:00	15.85	12.99
	3:30:00	15.78	12.99
	3:40:00	15.76	12.98
	3:50:00	15.72	12.99
	4:00:00	15.70	12.98
	4:10:00	15.66	12.98
	4:20:00	15.63	12.97
	4:30:00	15.61	12.96
	4:40:00	15.54	12.97
	4:50:00	15.57	12.97
	5:00:00	15.46	12.97
	5:10:00	15.47	12.96
	5:20:00	15.42	12.95
	5:30:00	15.39	12.96
	5:40:00	15.33	12.95
	5:50:00	15.30	12.96
	6:00:00	15.28	12.97
	6:10:00	15.24	13.01
	6:20:00	15.22	13.05
	6:30:00	15.22	13.13
	6:40:00	15.15	13.24
	6:50:00	15.17	13.32
	7:00:00	15.15	13.48
	7:10:00	15.09	13.67
	7:20:00	15.06	13.86
	7:30:00	15.06	14.16
	7:40:00	14.92	15.00
	7:50:00	14.91	15.00
	8:00:00	15.16	15.00
	8:10:00	16.05	15.00
	8:20:00	15.91	15.00
	8:30:00	15.66	15.00
	8:40:00	15.38	15.00
	8:50:00	14.98	15.00
	9:00:00	14.94	15.00
	9:10:00	15.16	15.00
	9:20:00	15.20	15.00
	9:30:00	15.20	14.99
	9:40:00	15.28	14.93
	9:50:00	15.30	14.88
	10:00:00	15.02	14.84
	10:10:00	14.73	14.65
	10:20:00	14.78	14.67
	10:30:00	14.93	14.66
	10:40:00	15.06	14.64
	10:50:00	15.22	14.64
	11:00:00	15.35	14.60
	11:10:00	15.46	14.69
	11:20:00	15.54	14.72
	11:30:00	15.59	14.70

6/7/2009	11:40:00	15.70	14.62
	11:50:00	15.73	14.41
	12:00:00	15.74	14.56
	12:10:00	15.88	14.52
	12:20:00	15.99	14.49
	12:30:00	16.19	14.47
	12:40:00	16.36	14.44
	12:50:00	16.59	14.43
	13:00:00	16.60	14.40
	13:10:00	16.69	14.37
	13:20:00	16.65	14.31
	13:30:00	16.84	14.33
	13:40:00	16.90	14.29
	13:50:00	17.18	14.30
	14:00:00	17.29	14.26
	14:10:00	17.50	14.29
	14:20:00	17.82	14.24
	14:30:00	17.95	14.17
	14:40:00	18.36	14.27
	14:50:00	18.54	14.21
	15:00:00	18.81	14.20
	15:10:00	19.09	14.21
	15:20:00	19.19	14.08
	15:30:00	19.42	14.15
	15:40:00	19.56	14.14
	15:50:00	19.66	13.97
	16:00:00	19.60	14.00
	16:10:00	19.71	14.15
	16:20:00	19.83	14.11
	16:30:00	19.87	14.01
	16:40:00	19.80	13.98
	16:50:00	19.77	13.98
	17:00:00	19.83	14.01
	17:10:00	19.75	14.01
	17:20:00	19.78	14.04
	17:30:00	19.73	14.08
	17:40:00	19.76	14.01
	17:50:00	19.68	14.04
	18:00:00	19.53	14.07
	18:10:00	19.62	14.05
	18:20:00	19.48	14.02
	18:30:00	19.59	14.08
	18:40:00	19.56	13.99
	18:50:00	19.48	13.91
	19:00:00	19.48	13.87
	19:10:00	19.49	13.86
	19:20:00	19.38	13.89
	19:30:00	19.37	13.95
	19:40:00	19.35	13.94
	19:50:00	19.20	13.88
	20:00:00	19.16	13.82
	20:10:00	19.04	13.74

6/7/2009	20:20:00	18.98	13.67
	20:30:00	18.90	13.60
	20:40:00	18.82	13.53
	20:50:00	18.82	13.45
	21:00:00	18.77	13.37
	21:10:00	18.70	13.30
	21:20:00	18.68	13.24
	21:30:00	18.66	13.18
	21:40:00	18.61	13.13
	21:50:00	18.58	13.10
	22:00:00	18.55	13.07
	22:10:00	18.52	13.06
	22:20:00	18.46	13.06
	22:30:00	18.46	13.07
	22:40:00	18.42	13.08
	22:50:00	18.39	13.08
	23:00:00	18.34	13.08
	23:10:00	18.35	13.08
	23:20:00	18.31	13.07
	23:30:00	18.30	13.07
23:40:00	18.26	13.06	
23:50:00	18.27	13.06	
6/8/2009	0:00:00	18.27	13.06
	0:10:00	18.20	13.06
	0:20:00	18.18	13.05
	0:30:00	18.22	13.05
	0:40:00	18.14	13.05
	0:50:00	18.12	13.05
	1:00:00	18.08	13.04
	1:10:00	18.05	13.04
	1:20:00	18.07	13.04
	1:30:00	18.02	13.02
	1:40:00	17.99	13.03
	1:50:00	17.97	13.02
	2:00:00	17.99	13.03
	2:10:00	17.91	13.02
	2:20:00	17.90	13.02
	2:30:00	17.90	13.01
	2:40:00	17.86	13.00
	2:50:00	17.82	13.01
	3:00:00	17.79	13.00
	3:10:00	17.77	13.00
	3:20:00	17.73	12.99
	3:30:00	17.72	12.99
	3:40:00	17.69	12.98
	3:50:00	17.64	12.98
	4:00:00	17.58	12.98
	4:10:00	17.60	12.98
	4:20:00	17.56	12.97
	4:30:00	17.53	12.97
4:40:00	17.49	12.96	
4:50:00	17.44	12.97	



6/8/2009	5:00:00	17.40	12.96
	5:10:00	17.35	12.96
	5:20:00	17.30	12.95
	5:30:00	17.28	12.96
	5:40:00	17.29	12.95
	5:50:00	17.25	12.96
	6:00:00	17.20	12.97
	6:10:00	17.16	12.98
	6:20:00	17.14	13.02
	6:30:00	17.07	13.09
	6:40:00	17.07	13.17
	6:50:00	17.03	13.20
	7:00:00	17.01	13.36
	7:10:00	16.99	13.53
	7:20:00	16.99	13.72
	7:30:00	16.93	13.87
	7:40:00	16.91	15.00
	7:50:00	16.90	15.00
	8:00:00	16.63	15.00
	8:10:00	17.66	15.00
	8:20:00	17.67	15.00
	8:30:00	17.08	15.00
	8:40:00	16.91	15.00
	8:50:00	16.75	15.00
	9:00:00	16.87	15.00
	9:10:00	17.00	14.99
	9:20:00	17.03	14.54
	9:30:00	17.10	15.00
	9:40:00	17.14	14.71
	9:50:00	17.20	14.69
	10:00:00	17.23	14.72
	10:10:00	17.28	14.66
	10:20:00	17.36	14.48
	10:30:00	17.40	14.77
	10:40:00	17.47	14.68
	10:50:00	17.54	14.75
	11:00:00	17.65	14.58
	11:10:00	17.77	14.83
	11:20:00	17.85	14.67
	11:30:00	17.97	14.66
	11:40:00	18.23	14.57
	11:50:00	18.36	14.18
	12:00:00	18.29	14.16
	12:10:00	18.45	14.49
	12:20:00	18.61	14.30
	12:30:00	18.59	14.38
	12:40:00	18.67	14.53
	12:50:00	18.77	14.32
	13:00:00	18.34	14.55
	13:10:00	17.23	14.13
	13:20:00	17.01	14.32
	13:30:00	17.26	14.02

6/8/2009	13:40:00	17.32	13.99
	13:50:00	17.30	14.08
	14:00:00	17.20	14.10
	14:10:00	17.17	14.17
	14:20:00	17.24	14.34
	14:30:00	17.26	14.28
	14:40:00	17.26	14.19
	14:50:00	17.15	14.19
	15:00:00	17.08	14.06
	15:10:00	17.08	14.17
	15:20:00	17.19	14.14
	15:30:00	17.10	14.08
	15:40:00	17.07	14.39
	15:50:00	17.18	14.34
	16:00:00	17.28	14.44
	16:10:00	17.32	14.15
	16:20:00	17.36	14.30
	16:30:00	17.44	14.20
	16:40:00	17.26	14.17
	16:50:00	17.29	14.22
	17:00:00	17.29	14.19
	17:10:00	17.32	14.11
	17:20:00	17.55	14.09
	17:30:00	17.65	14.11
	17:40:00	17.63	13.98
	17:50:00	17.69	13.86
	18:00:00	17.64	13.91
	18:10:00	17.55	14.08
	18:20:00	17.47	14.00
	18:30:00	17.37	13.95
	18:40:00	17.34	13.96
	18:50:00	17.23	13.96
	19:00:00	17.08	13.92
	19:10:00	16.92	13.87
	19:20:00	16.73	13.80
	19:30:00	16.69	13.71
	19:40:00	16.58	13.62
	19:50:00	16.47	13.55
	20:00:00	16.36	13.49
	20:10:00	16.30	13.43
	20:20:00	16.31	13.38
	20:30:00	16.40	13.32
	20:40:00	16.39	13.26
	20:50:00	16.34	13.20
	21:00:00	16.34	13.14
	21:10:00	16.29	13.11
	21:20:00	16.29	13.09
	21:30:00	16.25	13.08
	21:40:00	16.23	13.09
	21:50:00	16.29	13.10
	22:00:00	16.34	13.10
	22:10:00	16.43	13.10

6/8/2009	22:20:00	16.70	13.10
	22:30:00	17.00	13.09
	22:40:00	17.34	13.09
	22:50:00	17.60	13.08
	23:00:00	17.79	13.08
	23:10:00	18.01	13.08
	23:20:00	18.12	13.07
	23:30:00	18.21	13.07
	23:40:00	18.30	13.07
	23:50:00	18.34	13.06
6/9/2009	0:00:00	18.45	13.06
	0:10:00	18.47	13.06
	0:20:00	18.52	13.06
	0:30:00	18.53	13.06
	0:40:00	18.62	13.04
	0:50:00	18.55	13.05
	1:00:00	18.62	13.05
	1:10:00	18.58	13.05
	1:20:00	18.62	13.05
	1:30:00	18.63	13.04
	1:40:00	18.63	13.04
	1:50:00	18.67	13.03
	2:00:00	18.62	13.03
	2:10:00	18.62	13.02
	2:20:00	18.65	13.02
	2:30:00	18.63	13.01
	2:40:00	18.62	13.01
	2:50:00	18.62	13.01
	3:00:00	18.60	13.01
	3:10:00	18.62	13.00
	3:20:00	18.60	13.00
	3:30:00	18.60	12.99
	3:40:00	18.60	12.99
	3:50:00	18.58	12.99
	4:00:00	18.58	12.99
	4:10:00	18.55	12.97
	4:20:00	18.55	12.98
	4:30:00	18.54	12.98
	4:40:00	18.49	12.97
	4:50:00	18.54	12.98
5:00:00	18.52	12.97	
5:10:00	18.49	12.97	
5:20:00	18.49	12.98	
5:30:00	18.47	12.97	
5:40:00	18.47	12.97	
5:50:00	18.44	12.97	
6:00:00	18.46	12.98	
6:10:00	18.41	13.00	
6:20:00	18.38	13.03	
6:30:00	18.42	12.74	
6:40:00	18.38	13.03	
6:50:00	18.35	13.21	

6/9/2009	7:00:00	18.35	13.47
	7:10:00	18.38	13.61
	7:20:00	18.36	13.66
	7:30:00	18.35	13.72
	7:40:00	18.34	13.70
	7:50:00	18.34	13.74
	8:00:00	18.34	13.97
	8:10:00	18.36	13.88
	8:20:00	18.34	14.41
	8:30:00	19.07	15.00
	8:40:00	18.66	15.00
	8:50:00	18.44	15.00
	9:00:00	18.89	15.00
	9:10:00	18.75	15.00
	9:20:00	18.60	14.60
	9:30:00	18.67	15.00
	9:40:00	18.74	15.00
	9:50:00	18.85	14.85
	10:00:00	18.94	14.49
	10:10:00	19.01	14.74
	10:20:00	19.07	14.73
	10:30:00	19.16	14.51
	10:40:00	19.21	14.46
	10:50:00	19.35	14.58
	11:00:00	19.33	14.44
	11:10:00	19.53	14.33
	11:20:00	19.54	14.28
	11:30:00	19.64	14.24
	11:40:00	19.76	14.35
	11:50:00	19.84	14.42
	12:00:00	19.93	14.17
	12:10:00	19.92	14.65
	12:20:00	20.21	14.32
	12:30:00	20.40	14.50
	12:40:00	20.58	14.13
	12:50:00	20.80	14.47
	13:00:00	20.93	14.27
	13:10:00	21.04	14.09
	13:20:00	21.15	14.55
	13:30:00	21.08	13.85
	13:40:00	21.08	13.61
	13:50:00	20.93	13.45
	14:00:00	20.83	13.41
	14:10:00	20.76	13.40
	14:20:00	20.62	13.44
	14:30:00	20.53	13.41
	14:40:00	20.43	13.32
	14:50:00	20.31	13.26
	15:00:00	20.27	13.23
	15:10:00	20.28	13.21
	15:20:00	20.13	13.24
	15:30:00	20.10	13.34

6/9/2009	15:40:00	20.01	13.45
	15:50:00	19.84	13.54
	16:00:00	19.68	13.66
	16:10:00	19.46	13.80
	16:20:00	18.18	13.92
	16:30:00	17.13	14.04
	16:40:00	16.84	14.29
	16:50:00	16.65	14.54
	17:00:00	16.56	14.54
	17:10:00	16.47	14.56
	17:20:00	16.48	14.51
	17:30:00	16.52	14.45
	17:40:00	16.48	14.46
	17:50:00	16.49	14.39
	18:00:00	16.47	14.34
	18:10:00	16.45	14.28
	18:20:00	16.42	14.27
	18:30:00	16.39	14.26
	18:40:00	16.33	14.22
	18:50:00	16.31	14.17
	19:00:00	16.28	14.13
	19:10:00	16.23	14.10
	19:20:00	16.23	14.06
	19:30:00	16.20	14.04
	19:40:00	16.15	14.04
	19:50:00	16.15	14.10
	20:00:00	16.08	14.15
	20:10:00	16.10	14.14
	20:20:00	16.10	14.08
	20:30:00	16.13	13.99
	20:40:00	16.13	13.88
	20:50:00	16.17	13.78
	21:00:00	16.48	13.67
	21:10:00	16.99	13.59
	21:20:00	17.30	13.50
21:30:00	17.62	13.43	
21:40:00	17.83	13.36	
21:50:00	17.98	13.30	
22:00:00	18.12	13.24	
22:10:00	18.23	13.18	
22:20:00	18.32	13.13	
22:30:00	18.36	13.08	
22:40:00	18.45	13.05	
22:50:00	18.47	13.03	
23:00:00	18.47	13.03	
23:10:00	18.43	13.04	
23:20:00	18.41	13.05	
23:30:00	18.41	13.06	
23:40:00	18.39	13.06	
23:50:00	18.35	13.06	
6/10/2009	0:00:00	18.35	13.07
	0:10:00	18.30	13.06

6/10/2009	0:20:00	18.27	13.07
	0:30:00	18.24	13.07
	0:40:00	18.14	13.06
	0:50:00	18.18	13.06
	1:00:00	18.12	13.05
	1:10:00	18.12	13.07
	1:20:00	18.10	13.07
	1:30:00	18.10	13.06
	1:40:00	18.10	13.06
	1:50:00	18.03	13.05
	2:00:00	18.02	13.06
	2:10:00	18.03	13.06
	2:20:00	18.01	13.06
	2:30:00	17.96	13.06
	2:40:00	17.94	13.05
	2:50:00	17.93	13.05
	3:00:00	17.93	13.04
	3:10:00	17.85	13.04
	3:20:00	17.83	13.04
	3:30:00	17.83	13.04
	3:40:00	17.81	13.04
	3:50:00	17.83	13.03
	4:00:00	17.83	13.04
	4:10:00	17.76	13.03
	4:20:00	17.81	13.03
	4:30:00	17.74	13.02
	4:40:00	17.74	13.01
	4:50:00	17.72	13.02
	5:00:00	17.72	13.02
	5:10:00	17.67	13.01
	5:20:00	17.69	13.01
	5:30:00	17.64	13.01
	5:40:00	17.64	13.01
	5:50:00	17.62	13.01
	6:00:00	17.59	13.01
	6:10:00	17.58	13.03
	6:20:00	17.51	13.05
	6:30:00	17.55	12.72
	6:40:00	17.51	12.99
	6:50:00	17.49	13.10
	7:00:00	17.43	13.25
	7:10:00	17.39	13.48
	7:20:00	17.43	13.63
	7:30:00	17.48	13.79
	7:40:00	17.47	13.83
	7:50:00	17.47	13.97
	8:00:00	17.46	14.05
	8:10:00	17.50	14.33
	8:20:00	17.49	15.00
	8:30:00	17.28	15.00
	8:40:00	17.53	15.00
	8:50:00	17.58	15.00

6/10/2009	9:00:00	17.60	15.00
	9:10:00	17.43	15.00
	9:20:00	17.69	14.45
	9:30:00	17.73	14.75
	9:40:00	17.77	14.60
	9:50:00	17.79	14.69
	10:00:00	17.86	14.85
	10:10:00	17.93	14.75
	10:20:00	17.99	14.67
	10:30:00	17.99	14.67
	10:40:00	18.08	14.65
	10:50:00	18.14	15.00
	11:00:00	18.18	14.54
	11:10:00	18.24	14.56
	11:20:00	18.31	14.67
	11:30:00	18.37	14.56
	11:40:00	18.46	14.70
	11:50:00	18.57	14.48
	12:00:00	18.60	14.40
	12:10:00	18.66	14.50
	12:20:00	18.72	14.61
	12:30:00	18.72	14.58
	12:40:00	18.88	14.56
	12:50:00	19.00	14.54
	13:00:00	19.03	14.55
	13:10:00	19.12	14.43
	13:20:00	19.18	14.41
	13:30:00	19.24	14.47
	13:40:00	19.29	14.29
	13:50:00	19.28	14.24
	14:00:00	19.32	14.37
	14:10:00	19.22	14.36
	14:20:00	19.36	14.33
	14:30:00	19.37	14.34
	14:40:00	19.28	14.37
	14:50:00	19.42	14.42
	15:00:00	19.46	14.38
	15:10:00	19.37	14.27
	15:20:00	19.45	14.17
	15:30:00	19.45	14.12
	15:40:00	19.44	14.06
	15:50:00	19.44	14.04
	16:00:00	19.45	14.05
	16:10:00	19.42	14.06
	16:20:00	19.42	14.08
	16:30:00	19.40	14.08
	16:40:00	19.40	14.08
	16:50:00	19.38	14.13
	17:00:00	19.39	14.15
	17:10:00	19.36	14.13
	17:20:00	19.35	14.12
	17:30:00	19.30	14.07

6/10/2009	17:40:00	19.25	14.02
	17:50:00	19.26	14.04
	18:00:00	19.21	14.06
	18:10:00	19.16	14.05
	18:20:00	19.14	14.07
	18:30:00	19.14	14.08
	18:40:00	19.07	14.17
	18:50:00	19.08	14.31
	19:00:00	19.03	14.27
	19:10:00	19.01	14.19
	19:20:00	18.96	14.16
	19:30:00	19.00	14.23
	19:40:00	19.00	14.16
	19:50:00	18.96	14.04
	20:00:00	18.96	13.95
	20:10:00	18.95	13.86
	20:20:00	18.92	13.80
	20:30:00	18.90	13.73
	20:40:00	18.88	13.65
	20:50:00	18.89	13.57
	21:00:00	18.83	13.48
	21:10:00	18.83	13.41
	21:20:00	18.79	13.34
	21:30:00	18.78	13.27
	21:40:00	18.73	13.21
	21:50:00	18.69	13.16
	22:00:00	18.67	13.11
	22:10:00	18.67	13.08
	22:20:00	18.62	13.08
	22:30:00	18.63	13.09
	22:40:00	18.57	13.10
	22:50:00	18.56	13.11
	23:00:00	18.52	13.11
23:10:00	18.48	13.11	
23:20:00	18.50	13.11	
23:30:00	18.52	13.11	
23:40:00	18.46	13.10	
23:50:00	18.47	13.10	
6/11/2009	0:00:00	18.42	13.09
	0:10:00	18.41	13.10
	0:20:00	18.37	13.09
	0:30:00	18.35	13.08
	0:40:00	18.35	13.08
	0:50:00	18.34	13.09
	1:00:00	18.32	13.09
	1:10:00	18.30	13.09
	1:20:00	18.30	13.08
	1:30:00	18.27	13.08
	1:40:00	18.27	13.08
1:50:00	18.25	13.08	
2:00:00	18.25	13.08	
2:10:00	18.22	13.07	



6/11/2009	2:20:00	18.21	13.07
	2:30:00	18.19	13.07
	2:40:00	18.17	13.06
	2:50:00	18.15	13.06
	3:00:00	18.15	13.06
	3:10:00	18.14	13.05
	3:20:00	18.12	13.05
	3:30:00	18.09	13.05
	3:40:00	18.05	13.04
	3:50:00	18.05	13.04
	4:00:00	18.00	13.03
	4:10:00	18.05	13.03
	4:20:00	18.02	13.03
	4:30:00	17.98	13.02
	4:40:00	17.96	13.02
	4:50:00	18.00	13.00
	5:00:00	17.94	13.01
	5:10:00	17.93	13.00
	5:20:00	17.95	13.00
	5:30:00	17.88	12.99
	5:40:00	17.90	12.98
	5:50:00	17.88	13.00
	6:00:00	17.87	13.00
	6:10:00	17.86	13.01
	6:20:00	17.86	13.03
	6:30:00	17.84	13.04
	6:40:00	17.82	13.02
	6:50:00	17.79	13.11
	7:00:00	17.82	13.21
	7:10:00	17.73	13.45
	7:20:00	17.77	13.71
	7:30:00	17.82	13.72
	7:40:00	17.81	13.91
	7:50:00	17.77	13.96
	8:00:00	17.79	14.22
	8:10:00	17.54	15.00
	8:20:00	17.84	15.00
	8:30:00	17.84	15.00
	8:40:00	18.31	15.00
	8:50:00	17.82	15.00
	9:00:00	17.97	15.00
	9:10:00	17.99	15.00
	9:20:00	18.09	14.84
	9:30:00	18.12	14.80
	9:40:00	18.14	14.67
	9:50:00	18.19	14.65
	10:00:00	18.22	14.51
	10:10:00	18.29	14.67
	10:20:00	18.34	14.72
	10:30:00	18.46	15.00
	10:40:00	18.55	14.50
	10:50:00	18.57	14.44

6/11/2009	11:00:00	18.62	14.48
	11:10:00	18.66	14.59
	11:20:00	18.72	14.47
	11:30:00	18.74	14.50
	11:40:00	18.84	14.63
	11:50:00	18.88	15.00
	12:00:00	19.05	15.00
	12:10:00	19.18	14.26
	12:20:00	19.18	14.01
	12:30:00	19.12	13.89
	12:40:00	19.12	13.97
	12:50:00	19.09	14.08
	13:00:00	19.12	14.34
	13:10:00	19.16	14.53
	13:20:00	19.18	14.55
	13:30:00	19.27	14.55
	13:40:00	19.33	14.75
	13:50:00	19.56	14.56
	14:00:00	19.61	14.46
	14:10:00	19.72	14.65
	14:20:00	19.84	14.50
	14:30:00	19.86	14.37
	14:40:00	19.99	14.56
	14:50:00	20.08	14.45
	15:00:00	20.15	14.38
	15:10:00	20.18	14.38
	15:20:00	20.22	14.44
	15:30:00	20.24	14.31
	15:40:00	20.25	14.41
	15:50:00	20.31	14.32
	16:00:00	20.31	14.24
	16:10:00	20.25	14.05
	16:20:00	20.29	14.05
	16:30:00	20.32	14.41
	16:40:00	20.38	14.21
	16:50:00	20.29	14.05
	17:00:00	20.25	14.10
	17:10:00	20.27	14.24
	17:20:00	20.27	14.27
	17:30:00	20.28	14.29
	17:40:00	20.26	14.13
	17:50:00	20.20	13.93
	18:00:00	20.10	13.89
	18:10:00	20.13	14.01
	18:20:00	20.11	14.25
	18:30:00	20.05	14.22
	18:40:00	20.00	14.16
	18:50:00	19.96	14.15
	19:00:00	19.91	14.16
	19:10:00	19.85	14.14
	19:20:00	19.79	14.11
	19:30:00	19.74	14.05

6/11/2009	19:40:00	19.65	13.98
	19:50:00	19.57	13.89
	20:00:00	19.53	13.80
	20:10:00	19.49	13.74
	20:20:00	19.44	13.67
	20:30:00	19.39	13.59
	20:40:00	19.36	13.50
	20:50:00	19.26	13.43
	21:00:00	19.24	13.35
	21:10:00	19.21	13.28
	21:20:00	19.16	13.22
	21:30:00	19.13	13.17
	21:40:00	19.08	13.13
	21:50:00	19.08	13.10
	22:00:00	19.02	13.09
	22:10:00	18.95	13.10
	22:20:00	18.92	13.11
	22:30:00	18.88	13.11
	22:40:00	18.83	13.11
	22:50:00	18.83	13.11
	23:00:00	18.81	13.11
	23:10:00	18.80	13.10
	23:20:00	18.76	13.10
	23:30:00	18.70	13.10
	23:40:00	18.73	13.09
	23:50:00	18.69	13.10
6/12/2009	0:00:00	18.65	13.10
	0:10:00	18.63	13.09
	0:20:00	18.59	13.09
	0:30:00	18.62	13.09
	0:40:00	18.59	13.09
	0:50:00	18.55	13.08
	1:00:00	18.56	13.09
	1:10:00	18.58	13.09
	1:20:00	18.50	13.08
	1:30:00	18.53	13.08
	1:40:00	18.54	13.08
	1:50:00	18.50	13.07
	2:00:00	18.49	13.08
	2:10:00	18.50	13.07
	2:20:00	18.47	13.07
	2:30:00	18.48	13.06
	2:40:00	18.45	13.06
	2:50:00	18.42	13.06
	3:00:00	18.42	13.04
	3:10:00	18.39	13.05
	3:20:00	18.41	13.04
	3:30:00	18.41	13.04
	3:40:00	18.41	13.03
	3:50:00	18.39	13.03
	4:00:00	18.38	13.02
	4:10:00	18.41	13.01

6/12/2009	4:20:00	18.37	13.01
	4:30:00	18.34	13.01
	4:40:00	18.33	13.00
	4:50:00	18.29	13.00
	5:00:00	18.29	13.00
	5:10:00	18.27	13.00
	5:20:00	18.25	12.99
	5:30:00	18.22	12.99
	5:40:00	18.22	12.99
	5:50:00	18.19	12.99
	6:00:00	18.15	12.99
	6:10:00	18.15	13.00
	6:20:00	18.18	13.00
	6:30:00	18.13	13.00
	6:40:00	18.19	13.01
	6:50:00	18.19	12.96
	7:00:00	18.13	12.86
	7:10:00	18.10	13.00
	7:20:00	18.12	13.07
	7:30:00	18.11	13.29
	7:40:00	18.08	13.51
	7:50:00	18.10	13.69
	8:00:00	18.13	13.69
	8:10:00	18.13	13.72
	8:20:00	18.13	13.75
	8:30:00	18.13	13.76
	8:40:00	18.19	14.09
	8:50:00	18.20	14.38
	9:00:00	18.22	14.35
	9:10:00	18.27	14.22
	9:20:00	18.30	14.45
	9:30:00	18.30	14.57
	9:40:00	19.12	15.00
	9:50:00	18.37	14.43
	10:00:00	18.81	15.00
	10:10:00	18.48	14.60
	10:20:00	18.50	14.40
	10:30:00	18.50	14.48
	10:40:00	18.55	14.58
	10:50:00	18.61	14.50
	11:00:00	18.57	14.74
	11:10:00	18.70	14.63
	11:20:00	18.79	14.54
	11:30:00	18.92	14.58
	11:40:00	18.96	14.38
	11:50:00	19.03	14.53
	12:00:00	19.14	14.37
	12:10:00	19.16	14.30
	12:20:00	19.18	14.27
	12:30:00	19.20	14.52
	12:40:00	19.20	14.38
	12:50:00	19.12	14.28

6/12/2009	13:00:00	19.05	14.56
	13:10:00	19.02	14.40
	13:20:00	18.37	14.27
	13:30:00	17.35	14.55
	13:40:00	16.94	14.42
	13:50:00	16.88	14.18
	14:00:00	16.73	14.27
	14:10:00	16.78	14.48
	14:20:00	16.84	14.22
	14:30:00	16.81	14.12
	14:40:00	16.80	14.37
	14:50:00	16.78	14.32
	15:00:00	16.65	14.16
	15:10:00	16.66	14.40
	15:20:00	16.66	14.43
	15:30:00	16.71	14.84
	15:40:00	16.80	14.30
	15:50:00	16.77	14.16
	16:00:00	16.89	14.39
	16:10:00	16.99	14.29
	16:20:00	16.98	14.66
	16:30:00	16.93	14.37
	16:40:00	17.02	14.46
	16:50:00	17.24	14.41
	17:00:00	17.37	14.25
	17:10:00	17.43	14.26
	17:20:00	17.32	14.11
	17:30:00	17.24	14.15
	17:40:00	17.23	14.20
	17:50:00	17.20	14.12
	18:00:00	17.26	14.06
	18:10:00	17.32	14.06
	18:20:00	17.35	14.08
	18:30:00	17.41	14.00
	18:40:00	17.37	13.97
	18:50:00	17.19	14.00
	19:00:00	17.08	14.05
	19:10:00	17.06	14.02
	19:20:00	16.91	13.98
	19:30:00	16.75	13.91
	19:40:00	16.64	13.86
	19:50:00	16.58	13.82
	20:00:00	16.54	13.79
	20:10:00	16.54	13.77
	20:20:00	16.57	13.70
	20:30:00	16.56	13.64
	20:40:00	16.58	13.56
	20:50:00	16.59	13.47
	21:00:00	16.59	13.41
	21:10:00	16.55	13.34
	21:20:00	16.51	13.27
	21:30:00	16.47	13.21

6/12/2009	21:40:00	16.47	13.16
	21:50:00	16.48	13.11
	22:00:00	16.51	13.09
	22:10:00	16.54	13.09
	22:20:00	16.60	13.09
	22:30:00	16.84	13.10
	22:40:00	17.19	13.11
	22:50:00	17.48	13.11
	23:00:00	17.69	13.10
	23:10:00	17.90	13.11
	23:20:00	17.99	13.11
	23:30:00	18.07	13.11
	23:40:00	18.19	13.11
	23:50:00	18.25	13.10
6/13/2009	0:00:00	18.30	13.10
	0:10:00	18.34	13.10
	0:20:00	18.38	13.10
	0:30:00	18.36	13.10
	0:40:00	18.43	13.09
	0:50:00	18.45	13.09
	1:00:00	18.47	13.08
	1:10:00	18.47	13.09
	1:20:00	18.47	13.08
	1:30:00	18.48	13.08
	1:40:00	18.47	13.08
	1:50:00	18.45	13.09
	2:00:00	18.45	13.08
	2:10:00	18.43	13.08
	2:20:00	18.45	13.08
	2:30:00	18.43	13.07
	2:40:00	18.43	13.08
	2:50:00	18.41	13.07
	3:00:00	18.37	13.07
	3:10:00	18.35	13.07
	3:20:00	18.37	13.07
	3:30:00	18.34	13.07
	3:40:00	18.35	13.06
	3:50:00	18.33	13.06
	4:00:00	18.31	13.06
	4:10:00	18.33	13.05
	4:20:00	18.31	13.05
	4:30:00	18.25	13.05
	4:40:00	18.26	13.04
	4:50:00	18.22	13.04
	5:00:00	18.22	13.04
	5:10:00	18.20	13.04
	5:20:00	18.20	13.03
	5:30:00	18.21	13.03
5:40:00	18.18	13.02	
5:50:00	18.15	13.03	
6:00:00	18.17	13.03	
6:10:00	18.12	13.04	

6/13/2009	6:20:00	18.10	13.05
	6:30:00	18.08	13.08
	6:40:00	18.08	13.03
	6:50:00	18.08	13.05
	7:00:00	18.08	13.16
	7:10:00	18.07	13.12
	7:20:00	18.09	13.31
	7:30:00	18.09	13.51
	7:40:00	18.07	13.60
	7:50:00	18.12	13.70
	8:00:00	18.08	13.78
	8:10:00	18.09	13.88
	8:20:00	18.14	14.03
	8:30:00	18.12	14.35
	8:40:00	18.05	15.00
	8:50:00	18.56	15.00
	9:00:00	19.01	15.00
	9:10:00	18.39	15.00
	9:20:00	18.35	15.00
	9:30:00	18.46	15.00
	9:40:00	18.55	15.00
	9:50:00	18.70	14.60
	10:00:00	18.77	14.42
	10:10:00	18.68	14.17
	10:20:00	18.68	13.82
	10:30:00	18.73	15.00
	10:40:00	18.77	14.42
	10:50:00	18.77	14.34
	11:00:00	18.79	14.32
	11:10:00	18.79	14.34
	11:20:00	18.85	14.43
	11:30:00	18.95	15.00
	11:40:00	18.94	14.37
	11:50:00	18.98	14.52
	12:00:00	19.03	14.40
	12:10:00	19.01	14.37
	12:20:00	19.20	14.58
	12:30:00	19.24	14.40
	12:40:00	19.27	14.48
	12:50:00	19.48	14.53
	13:00:00	19.53	14.36
	13:10:00	19.62	14.41
	13:20:00	19.68	15.00
	13:30:00	19.84	14.25
	13:40:00	19.84	14.12
	13:50:00	19.88	14.22
	14:00:00	19.98	14.28
	14:10:00	19.98	14.39
	14:20:00	20.20	14.76
	14:30:00	20.32	14.67
	14:40:00	20.36	14.35
	14:50:00	20.45	14.26

6/13/2009	15:00:00	20.40	14.32
	15:10:00	20.32	14.20
	15:20:00	20.36	14.25
	15:30:00	20.38	14.28
	15:40:00	20.38	14.25
	15:50:00	20.48	14.42
	16:00:00	20.51	14.38
	16:10:00	20.56	14.22
	16:20:00	20.60	14.46
	16:30:00	20.62	14.24
	16:40:00	20.58	14.22
	16:50:00	20.64	14.25
	17:00:00	20.74	14.42
	17:10:00	20.94	14.32
	17:20:00	20.95	14.18
	17:30:00	21.00	14.22
	17:40:00	21.04	14.18
	17:50:00	20.95	14.08
	18:00:00	21.00	14.02
	18:10:00	21.00	14.05
	18:20:00	20.94	14.15
	18:30:00	20.90	14.05
	18:40:00	20.83	14.03
	18:50:00	20.80	14.11
	19:00:00	20.81	14.03
	19:10:00	20.76	14.00
	19:20:00	20.71	13.91
	19:30:00	20.71	13.89
	19:40:00	20.62	13.86
	19:50:00	20.53	13.86
	20:00:00	20.49	13.81
	20:10:00	20.42	13.77
	20:20:00	20.32	13.70
	20:30:00	20.27	13.63
	20:40:00	20.14	13.55
	20:50:00	20.11	13.47
	21:00:00	20.01	13.39
	21:10:00	19.99	13.32
	21:20:00	19.90	13.25
	21:30:00	19.84	13.19
	21:40:00	19.78	13.15
	21:50:00	19.72	13.11
	22:00:00	19.65	13.09
	22:10:00	19.59	13.09
	22:20:00	19.50	13.10
	22:30:00	19.43	13.10
	22:40:00	19.36	13.10
	22:50:00	19.29	13.11
	23:00:00	19.18	13.10
	23:10:00	19.15	13.11
	23:20:00	19.08	13.10
	23:30:00	19.03	13.10



6/13/2009	23:40:00	18.94	13.10
	23:50:00	18.91	13.09
6/14/2009	0:00:00	18.84	13.09
	0:10:00	18.77	13.08
	0:20:00	18.73	13.08
	0:30:00	18.67	13.07
	0:40:00	18.61	13.07
	0:50:00	18.60	13.07
	1:00:00	18.53	13.07
	1:10:00	18.44	13.07
	1:20:00	18.39	13.06
	1:30:00	18.35	13.05
	1:40:00	18.29	13.06
	1:50:00	18.24	13.06
	2:00:00	18.21	13.05
	2:10:00	18.17	13.05
	2:20:00	18.13	13.05
	2:30:00	18.10	13.04
	2:40:00	18.08	13.03
	2:50:00	18.00	13.04
	3:00:00	17.98	13.03
	3:10:00	17.97	13.02
	3:20:00	17.93	13.03
	3:30:00	17.90	13.03
	3:40:00	17.88	13.02
	3:50:00	17.86	13.02
	4:00:00	17.82	13.01
	4:10:00	17.75	13.02
	4:20:00	17.75	13.01
	4:30:00	17.71	13.01
	4:40:00	17.66	13.01
	4:50:00	17.66	13.00
	5:00:00	17.64	13.00
	5:10:00	17.56	13.00
	5:20:00	17.54	12.98
	5:30:00	17.51	12.99
	5:40:00	17.49	12.98
	5:50:00	17.47	12.99
	6:00:00	17.42	12.99
	6:10:00	17.40	13.01
	6:20:00	17.36	13.07
	6:30:00	17.36	13.12
	6:40:00	17.29	13.15
	6:50:00	17.25	13.29
	7:00:00	17.25	13.58
	7:10:00	17.24	13.78
	7:20:00	17.18	14.01
	7:30:00	17.20	13.89
	7:40:00	17.11	14.02
	7:50:00	17.14	15.00
	8:00:00	17.07	14.57
	8:10:00	17.85	15.00

6/14/2009	8:20:00	17.70	15.00
	8:30:00	17.62	15.00
	8:40:00	17.27	15.00
	8:50:00	16.89	15.00
	9:00:00	17.19	15.00
	9:10:00	17.24	15.00
	9:20:00	17.34	14.92
	9:30:00	17.38	14.89
	9:40:00	17.47	14.83
	9:50:00	17.49	14.88
	10:00:00	17.55	14.82
	10:10:00	17.64	14.64
	10:20:00	17.72	14.64
	10:30:00	17.83	14.62
	10:40:00	17.94	14.61
	10:50:00	18.09	14.60
	11:00:00	18.22	14.58
	11:10:00	18.35	14.77
	11:20:00	18.48	14.67
	11:30:00	18.55	14.62
	11:40:00	18.83	14.58
	11:50:00	19.02	14.55
	12:00:00	19.09	14.54
	12:10:00	19.38	14.51
	12:20:00	19.61	14.49
	12:30:00	19.78	14.45
	12:40:00	20.04	14.43
	12:50:00	20.25	14.42
	13:00:00	20.51	14.40
	13:10:00	20.71	14.38
	13:20:00	20.97	14.36
	13:30:00	21.20	14.35
	13:40:00	21.42	14.34
	13:50:00	21.67	14.32
	14:00:00	21.89	14.29
	14:10:00	22.11	14.31
	14:20:00	22.35	14.30
	14:30:00	22.51	14.25
	14:40:00	22.56	14.32
	14:50:00	22.78	14.20
	15:00:00	22.83	14.26
	15:10:00	22.95	14.11
	15:20:00	23.11	14.26
	15:30:00	23.11	14.04
	15:40:00	23.05	13.91
	15:50:00	23.29	14.21
	16:00:00	23.29	13.88
	16:10:00	23.30	14.07
	16:20:00	23.26	13.94
	16:30:00	23.20	13.97
	16:40:00	23.40	14.16
	16:50:00	23.54	14.13

6/14/2009	17:00:00	23.48	14.08
	17:10:00	23.49	14.07
	17:20:00	23.44	14.04
	17:30:00	23.33	14.00
	17:40:00	23.19	13.92
	17:50:00	23.20	13.96
	18:00:00	23.15	13.99
	18:10:00	22.89	13.89
	18:20:00	22.86	13.94
	18:30:00	22.72	14.01
	18:40:00	22.57	13.94
	18:50:00	22.42	13.91
	19:00:00	22.39	13.94
	19:10:00	22.33	14.00
	19:20:00	22.19	13.99
	19:30:00	22.10	13.92
	19:40:00	21.93	13.93
	19:50:00	21.87	13.83
	20:00:00	21.74	13.78
	20:10:00	21.61	13.75
	20:20:00	21.55	13.72
	20:30:00	21.44	13.65
	20:40:00	21.31	13.58
	20:50:00	21.18	13.50
	21:00:00	21.06	13.42
	21:10:00	21.02	13.35
	21:20:00	20.88	13.29
	21:30:00	20.78	13.23
	21:40:00	20.71	13.17
	21:50:00	20.56	13.12
	22:00:00	20.47	13.09
	22:10:00	20.43	13.06
	22:20:00	20.27	13.06
	22:30:00	20.21	13.06
	22:40:00	20.16	13.07
	22:50:00	20.03	13.07
	23:00:00	19.95	13.07
	23:10:00	19.86	13.07
	23:20:00	19.80	13.06
	23:30:00	19.74	13.05
	23:40:00	19.63	13.06
	23:50:00	19.52	13.05
6/15/2009	0:00:00	19.50	13.05
	0:10:00	19.39	13.05
	0:20:00	19.37	13.05
	0:30:00	19.30	13.04
	0:40:00	19.24	13.04
	0:50:00	19.13	13.04
	1:00:00	19.13	13.04
	1:10:00	19.04	13.03
	1:20:00	19.00	13.04
	1:30:00	18.91	13.03

6/15/2009	1:40:00	18.82	13.03
	1:50:00	18.82	13.03
	2:00:00	18.71	13.02
	2:10:00	18.69	13.01
	2:20:00	18.62	13.02
	2:30:00	18.57	13.02
	2:40:00	18.50	13.01
	2:50:00	18.48	13.00
	3:00:00	18.44	13.01
	3:10:00	18.38	13.00
	3:20:00	18.33	13.01
	3:30:00	18.30	13.00
	3:40:00	18.21	13.00
	3:50:00	18.19	13.00
	4:00:00	18.12	12.99
	4:10:00	18.09	12.99
	4:20:00	18.02	12.99
	4:30:00	17.98	12.98
	4:40:00	17.91	12.98
	4:50:00	17.93	12.97
	5:00:00	17.84	12.97
	5:10:00	17.86	12.97
	5:20:00	17.77	12.96
	5:30:00	17.75	12.95
	5:40:00	17.69	12.95
	5:50:00	17.71	12.97
	6:00:00	17.61	12.97
	6:10:00	17.58	13.01
	6:20:00	17.58	13.07
	6:30:00	17.52	13.13
	6:40:00	17.46	13.24
	6:50:00	17.48	13.37
	7:00:00	17.41	13.44
	7:10:00	17.44	13.62
	7:20:00	17.43	13.64
	7:30:00	17.41	13.86
	7:40:00	17.42	14.10
	7:50:00	17.15	15.00
	8:00:00	17.27	15.00
	8:10:00	18.20	15.00
	8:20:00	18.36	15.00
	8:30:00	18.02	15.00
	8:40:00	17.81	15.00
	8:50:00	17.27	15.00
	9:00:00	17.73	15.00
	9:10:00	17.57	15.00
	9:20:00	17.79	14.72
	9:30:00	17.84	15.00
	9:40:00	17.97	14.88
	9:50:00	18.03	15.00
	10:00:00	18.12	14.80
	10:10:00	18.24	14.68

6/15/2009	10:20:00	18.29	14.68
	10:30:00	18.43	14.66
	10:40:00	18.54	14.63
	10:50:00	18.61	14.62
	11:00:00	18.84	14.54
	11:10:00	19.01	14.76
	11:20:00	19.16	14.65
	11:30:00	19.39	14.61
	11:40:00	19.52	14.58
	11:50:00	19.68	14.56
	12:00:00	19.95	14.54
	12:10:00	20.14	14.49
	12:20:00	20.35	14.45
	12:30:00	20.58	14.44
	12:40:00	20.85	14.42
	12:50:00	20.56	14.38
	13:00:00	20.82	14.36
	13:10:00	20.88	14.34
	13:20:00	20.56	14.35
	13:30:00	19.05	14.36
	13:40:00	18.37	14.31
	13:50:00	18.35	14.27
	14:00:00	18.33	13.82
	14:10:00	18.35	14.34
	14:20:00	18.32	14.31
	14:30:00	18.48	14.20
	14:40:00	18.52	14.28
	14:50:00	18.52	14.03
	15:00:00	18.45	14.30
	15:10:00	18.27	13.99
	15:20:00	18.29	14.02
	15:30:00	18.29	14.26
	15:40:00	18.34	14.18
	15:50:00	18.37	14.16
	16:00:00	18.54	14.21
	16:10:00	18.77	14.12
	16:20:00	18.92	14.17
	16:30:00	19.15	14.17
	16:40:00	19.31	14.19
	16:50:00	19.41	14.01
	17:00:00	19.44	14.07
	17:10:00	19.59	14.04
	17:20:00	19.64	14.04
	17:30:00	19.84	14.05
	17:40:00	19.78	13.98
	17:50:00	19.92	14.01
	18:00:00	19.90	14.03
	18:10:00	20.01	14.02
	18:20:00	20.12	14.06
	18:30:00	20.16	13.97
	18:40:00	20.19	13.98
	18:50:00	20.36	14.02

6/15/2009	19:00:00	20.53	14.03
	19:10:00	20.69	14.01
	19:20:00	20.86	13.99
	19:30:00	20.93	13.95
	19:40:00	21.02	13.92
	19:50:00	21.10	13.89
	20:00:00	21.10	13.84
	20:10:00	21.08	13.79
	20:20:00	21.10	13.71
	20:30:00	21.05	13.64
	20:40:00	21.07	13.57
	20:50:00	21.00	13.49
	21:00:00	20.94	13.42
	21:10:00	20.90	13.34
	21:20:00	20.81	13.28
	21:30:00	20.74	13.22
	21:40:00	20.66	13.17
	21:50:00	20.57	13.12
	22:00:00	20.49	13.08
	22:10:00	20.40	13.06
	22:20:00	20.29	13.05
	22:30:00	20.22	13.05
	22:40:00	20.15	13.06
	22:50:00	20.03	13.06
	23:00:00	19.97	13.06
23:10:00	19.88	13.06	
23:20:00	19.85	13.06	
23:30:00	19.68	13.04	
23:40:00	19.69	13.05	
23:50:00	19.57	13.04	
6/16/2009	0:00:00	19.51	13.04
	0:10:00	19.46	13.04
	0:20:00	19.43	13.03
	0:30:00	19.27	13.03
	0:40:00	19.26	13.02
	0:50:00	19.16	13.02
	1:00:00	19.10	13.03
	1:10:00	19.08	13.01
	1:20:00	19.03	13.02
	1:30:00	18.94	13.02
	1:40:00	18.91	13.01
	1:50:00	18.84	13.02
	2:00:00	18.80	13.01
	2:10:00	18.72	13.01
	2:20:00	18.68	13.01
	2:30:00	18.62	13.00
	2:40:00	18.57	13.00
	2:50:00	18.54	13.00
	3:00:00	18.53	13.00
3:10:00	18.50	12.99	
3:20:00	18.43	12.98	
3:30:00	18.36	12.99	

6/16/2009	3:40:00	18.31	12.98
	3:50:00	18.25	12.98
	4:00:00	18.23	12.98
	4:10:00	18.18	12.97
	4:20:00	18.11	12.96
	4:30:00	18.08	12.97
	4:40:00	18.03	12.97
	4:50:00	17.99	12.97
	5:00:00	17.95	12.96
	5:10:00	17.90	12.96
	5:20:00	17.86	12.95
	5:30:00	17.84	12.95
	5:40:00	17.82	12.96
	5:50:00	17.77	12.95
	6:00:00	17.75	12.98
	6:10:00	17.69	13.03
	6:20:00	17.64	13.12
	6:30:00	17.64	13.30
	6:40:00	17.56	13.49
	6:50:00	17.56	13.71
	7:00:00	17.61	13.89
	7:10:00	17.55	14.07
	7:20:00	17.51	14.01
	7:30:00	17.60	13.85
	7:40:00	17.41	15.00
	7:50:00	17.46	15.00
	8:00:00	17.44	15.00
	8:10:00	18.44	15.00
	8:20:00	18.24	15.00
	8:30:00	18.01	15.00
	8:40:00	17.70	15.00
	8:50:00	17.55	15.00
	9:00:00	17.75	15.00
	9:10:00	17.79	15.00
	9:20:00	17.87	15.00
	9:30:00	18.07	15.00
	9:40:00	18.08	14.94
	9:50:00	18.19	14.81
	10:00:00	18.32	14.82
	10:10:00	18.45	14.65
	10:20:00	18.54	14.65
	10:30:00	18.68	14.70
	10:40:00	18.79	14.55
	10:50:00	18.88	14.66
	11:00:00	19.01	14.58
	11:10:00	19.16	14.60
	11:20:00	19.33	14.76
	11:30:00	19.42	14.42
	11:40:00	19.55	15.00
	11:50:00	19.60	14.69
	12:00:00	19.86	14.28
	12:10:00	20.12	14.28

6/16/2009	12:20:00	20.43	14.62
	12:30:00	20.60	14.56
	12:40:00	20.88	14.52
	12:50:00	21.12	14.44
	13:00:00	21.23	14.32
	13:10:00	21.41	14.43
	13:20:00	21.65	14.48
	13:30:00	21.69	14.28
	13:40:00	21.97	14.29
	13:50:00	22.06	14.21
	14:00:00	22.23	14.19
	14:10:00	22.32	14.25
	14:20:00	22.54	14.48
	14:30:00	22.73	14.38
	14:40:00	23.00	14.45
	14:50:00	23.12	14.41
	15:00:00	23.13	14.14
	15:10:00	23.31	14.19
	15:20:00	23.40	14.28
	15:30:00	23.40	14.33
	15:40:00	23.52	14.23
	15:50:00	23.22	14.36
	16:00:00	22.76	14.17
	16:10:00	21.99	14.30
	16:20:00	20.23	14.17
	16:30:00	19.46	14.21
	16:40:00	19.31	14.06
	16:50:00	19.04	14.08
	17:00:00	18.76	14.17
	17:10:00	18.62	14.11
	17:20:00	18.42	14.06
	17:30:00	18.26	14.06
	17:40:00	18.13	14.02
	17:50:00	18.02	13.95
	18:00:00	17.95	13.96
	18:10:00	17.83	13.89
	18:20:00	17.77	13.82
	18:30:00	17.67	13.79
	18:40:00	17.70	13.90
	18:50:00	17.67	13.94
	19:00:00	17.65	13.89
	19:10:00	17.67	13.90
	19:20:00	17.65	13.93
	19:30:00	17.67	13.97
	19:40:00	17.70	13.91
	19:50:00	17.72	13.82
	20:00:00	17.72	13.73
	20:10:00	17.74	13.65
	20:20:00	17.74	13.57
	20:30:00	17.76	13.50
	20:40:00	17.76	13.43
	20:50:00	17.75	13.36



6/16/2009	21:00:00	17.77	13.29
	21:10:00	17.75	13.23
	21:20:00	17.75	13.18
	21:30:00	17.75	13.12
	21:40:00	17.87	13.08
	21:50:00	17.98	13.06
	22:00:00	18.11	13.05
	22:10:00	18.29	13.06
	22:20:00	18.46	13.07
	22:30:00	18.57	13.07
	22:40:00	18.71	13.07
	22:50:00	18.80	13.07
	23:00:00	18.92	13.07
	23:10:00	18.96	13.06
	23:20:00	18.98	13.06
	23:30:00	19.07	13.06
	23:40:00	19.13	13.05
	23:50:00	19.15	13.05
	6/17/2009	0:00:00	19.18
0:10:00		19.18	13.04
0:20:00		19.18	13.05
0:30:00		19.25	13.04
0:40:00		19.22	13.04
0:50:00		19.24	13.04
1:00:00		19.24	13.05
1:10:00		19.18	13.04
1:20:00		19.22	13.04
1:30:00		19.20	13.04
1:40:00		19.19	13.04
1:50:00		19.18	13.03
2:00:00		19.18	13.03
2:10:00		19.17	13.03
2:20:00		19.17	13.02
2:30:00		19.13	13.02
2:40:00		19.12	13.02
2:50:00		19.13	13.00
3:00:00		19.08	13.01
3:10:00		19.10	13.00
3:20:00		19.08	13.00
3:30:00		19.04	13.00
3:40:00		19.06	12.99
3:50:00		19.01	12.99
4:00:00		19.01	12.99
4:10:00		19.00	12.98
4:20:00		18.95	12.98
4:30:00		19.00	12.98
4:40:00		18.92	12.97
4:50:00	18.95	12.98	
5:00:00	18.95	12.97	
5:10:00	18.93	12.98	
5:20:00	18.91	12.97	
5:30:00	18.85	12.97	

6/17/2009	5:40:00	18.85	12.97
	5:50:00	18.85	12.97
	6:00:00	18.84	12.97
	6:10:00	18.83	12.97
	6:20:00	18.80	12.97
	6:30:00	18.78	12.97
	6:40:00	18.76	13.00
	6:50:00	18.74	13.02
	7:00:00	18.69	12.88
	7:10:00	18.73	13.04
	7:20:00	18.71	13.09
	7:30:00	18.69	13.13
	7:40:00	18.63	13.17
	7:50:00	18.65	13.23
	8:00:00	18.58	13.33
	8:10:00	18.63	13.41
	8:20:00	18.58	13.49
	8:30:00	18.58	13.59
	8:40:00	18.58	13.62
	8:50:00	18.53	13.62
	9:00:00	18.50	13.18
	9:10:00	18.46	13.06
	9:20:00	18.46	13.02
	9:30:00	18.41	13.10
	9:40:00	18.45	13.29
	9:50:00	18.43	13.43
	10:00:00	18.42	13.58
	10:10:00	18.45	13.80
	10:20:00	18.46	13.94
	10:30:00	18.46	13.84
	10:40:00	18.44	13.86
	10:50:00	18.44	13.84
	11:00:00	18.25	15.00
	11:10:00	18.49	14.22
	11:20:00	18.49	14.15
	11:30:00	18.69	15.00
	11:40:00	18.98	15.00
	11:50:00	18.77	14.73
	12:00:00	18.74	14.47
	12:10:00	19.66	15.00
	12:20:00	18.92	14.63
	12:30:00	18.93	15.00
	12:40:00	19.21	14.64
	12:50:00	19.32	14.65
	13:00:00	19.51	14.79
	13:10:00	19.60	14.65
	13:20:00	19.65	14.39
	13:30:00	19.63	14.51
	13:40:00	19.65	14.95
	13:50:00	19.65	14.41
	14:00:00	19.65	14.20
	14:10:00	19.61	14.33

Permit No. GA1992S009(07)

Temp Sensor/Recorder Data June 01, 2009 - July 01 2009

6/17/2009	14:20:00	19.53	14.23
	14:30:00	19.54	14.53
	14:40:00	19.83	14.76
	14:50:00	20.04	14.81
	15:00:00	20.27	14.78
	15:10:00	20.25	14.34
	15:20:00	20.21	14.18
	15:30:00	20.23	14.12
	15:40:00	20.27	14.38
	15:50:00	20.29	14.26
	16:00:00	20.40	14.53
	16:10:00	20.50	14.46
	16:20:00	20.56	14.40
	16:30:00	20.46	14.21
	16:40:00	20.49	14.34
	16:50:00	20.56	14.40
	17:00:00	20.67	14.34
	17:10:00	20.69	14.31
	17:20:00	20.80	14.23
	17:30:00	20.80	14.28
	17:40:00	21.02	14.37
	17:50:00	20.91	14.17
	18:00:00	20.91	14.19
	18:10:00	20.97	14.23
	18:20:00	20.99	14.17
	18:30:00	20.99	14.22
	18:40:00	21.04	14.17
	18:50:00	20.95	14.04
	19:00:00	20.88	13.95
	19:10:00	20.83	13.88
	19:20:00	20.75	13.88
	19:30:00	20.69	13.91
	19:40:00	20.60	13.92
	19:50:00	20.52	13.86
	20:00:00	20.43	13.77
	20:10:00	20.34	13.69
	20:20:00	20.29	13.60
	20:30:00	20.23	13.52
	20:40:00	20.19	13.44
	20:50:00	20.12	13.36
	21:00:00	20.05	13.30
	21:10:00	20.02	13.23
	21:20:00	19.96	13.18
	21:30:00	19.88	13.13
	21:40:00	19.81	13.10
	21:50:00	19.78	13.10
	22:00:00	19.74	13.10
	22:10:00	19.68	13.11
	22:20:00	19.63	13.12
	22:30:00	19.52	13.12
	22:40:00	19.49	13.12
	22:50:00	19.44	13.12

6/17/2009	23:00:00	19.38	13.12
	23:10:00	19.37	13.12
	23:20:00	19.29	13.11
	23:30:00	19.29	13.11
	23:40:00	19.22	13.11
	23:50:00	19.18	13.11
	6/18/2009	0:00:00	19.16
0:10:00		19.12	13.09
0:20:00		19.10	13.09
0:30:00		19.10	13.10
0:40:00		19.07	13.09
0:50:00		19.02	13.09
1:00:00		18.98	13.09
1:10:00		18.95	13.09
1:20:00		18.96	13.08
1:30:00		18.92	13.08
1:40:00		18.85	13.08
1:50:00		18.86	13.07
2:00:00		18.82	13.08
2:10:00		18.81	13.07
2:20:00		18.80	13.07
2:30:00		18.78	13.06
2:40:00		18.78	13.07
2:50:00		18.78	13.06
3:00:00		18.73	13.06
3:10:00		18.77	13.05
3:20:00		18.69	13.05
3:30:00		18.66	13.05
3:40:00		18.56	13.05
3:50:00		18.48	13.04
4:00:00		18.43	13.04
4:10:00		18.37	13.02
4:20:00		18.33	13.03
4:30:00		18.33	13.02
4:40:00		18.29	13.02
4:50:00		18.31	13.01
5:00:00	18.31	13.01	
5:10:00	18.38	13.00	
5:20:00	18.33	12.99	
5:30:00	18.34	13.00	
5:40:00	18.33	12.98	
5:50:00	18.33	13.00	
6:00:00	18.33	12.99	
6:10:00	18.32	13.02	
6:20:00	18.34	13.05	
6:30:00	18.29	12.89	
6:40:00	18.31	13.06	
6:50:00	18.24	13.20	
7:00:00	18.18	13.27	
7:10:00	18.19	13.36	
7:20:00	18.17	13.54	
7:30:00	18.09	13.67	

6/18/2009	7:40:00	18.08	13.83
	7:50:00	18.07	13.88
	8:00:00	18.03	14.30
	8:10:00	18.03	15.00
	8:20:00	18.03	15.00
	8:30:00	18.01	14.52
	8:40:00	18.00	14.54
	8:50:00	17.98	14.56
	9:00:00	17.84	15.00
	9:10:00	18.01	15.00
	9:20:00	18.03	15.00
	9:30:00	18.08	14.77
	9:40:00	18.03	14.61
	9:50:00	18.08	14.49
	10:00:00	18.10	14.43
	10:10:00	18.07	14.34
	10:20:00	18.09	14.28
	10:30:00	18.14	14.43
	10:40:00	18.13	14.36
	10:50:00	18.13	14.29
	11:00:00	18.13	14.46
	11:10:00	18.18	14.38
	11:20:00	18.24	14.53
	11:30:00	17.94	14.43
	11:40:00	17.30	14.45
	11:50:00	18.05	15.00
	12:00:00	17.61	14.50
	12:10:00	17.76	14.58
	12:20:00	17.91	14.39
	12:30:00	18.02	14.62
	12:40:00	18.07	14.56
	12:50:00	18.15	14.48
	13:00:00	18.15	14.40
	13:10:00	18.20	14.48
	13:20:00	18.26	14.33
	13:30:00	18.29	14.13
	13:40:00	18.29	14.70
	13:50:00	18.33	14.52
	14:00:00	18.31	14.42
	14:10:00	18.33	14.40
	14:20:00	18.26	14.28
	14:30:00	18.29	14.43
	14:40:00	18.26	14.67
	14:50:00	18.35	14.44
	15:00:00	18.37	14.48
	15:10:00	18.42	14.44
	15:20:00	18.39	14.57
	15:30:00	18.48	14.53
	15:40:00	18.55	14.48
	15:50:00	18.57	14.25
	16:00:00	18.53	14.35
	16:10:00	18.53	14.28

6/18/2009	16:20:00	18.59	14.26
	16:30:00	18.55	14.37
	16:40:00	18.50	14.28
	16:50:00	18.46	14.25
	17:00:00	18.42	14.22
	17:10:00	18.48	14.18
	17:20:00	18.46	14.10
	17:30:00	18.49	14.13
	17:40:00	18.48	14.07
	17:50:00	18.47	14.01
	18:00:00	18.41	14.00
	18:10:00	18.41	13.97
	18:20:00	18.35	13.93
	18:30:00	18.29	13.95
	18:40:00	18.24	13.95
	18:50:00	18.20	13.94
	19:00:00	18.15	13.91
	19:10:00	18.09	13.91
	19:20:00	18.10	13.98
	19:30:00	18.08	14.03
	19:40:00	18.03	13.97
	19:50:00	17.98	13.89
	20:00:00	17.91	13.81
	20:10:00	17.94	13.75
	20:20:00	17.91	13.69
	20:30:00	17.87	13.63
	20:40:00	17.88	13.56
	20:50:00	17.87	13.47
	21:00:00	17.84	13.40
	21:10:00	17.81	13.33
	21:20:00	17.76	13.27
	21:30:00	17.78	13.21
	21:40:00	17.75	13.16
21:50:00	17.70	13.11	
22:00:00	17.72	13.09	
22:10:00	17.65	13.08	
22:20:00	17.67	13.09	
22:30:00	17.65	13.10	
22:40:00	17.64	13.10	
22:50:00	17.59	13.10	
23:00:00	17.56	13.10	
23:10:00	17.55	13.10	
23:20:00	17.52	13.09	
23:30:00	17.49	13.09	
23:40:00	17.49	13.09	
23:50:00	17.41	13.08	
6/19/2009	0:00:00	17.44	13.09
	0:10:00	17.37	13.08
	0:20:00	17.38	13.08
	0:30:00	17.35	13.08
	0:40:00	17.35	13.07
	0:50:00	17.31	13.07

6/19/2009	1:00:00	17.27	13.06
	1:10:00	17.29	13.07
	1:20:00	17.25	13.06
	1:30:00	17.27	13.07
	1:40:00	17.23	13.06
	1:50:00	17.18	13.06
	2:00:00	17.13	13.05
	2:10:00	17.17	13.06
	2:20:00	17.16	13.06
	2:30:00	17.14	13.05
	2:40:00	17.14	13.04
	2:50:00	17.05	13.05
	3:00:00	17.06	13.04
	3:10:00	17.02	13.05
	3:20:00	17.05	13.05
	3:30:00	17.01	13.05
	3:40:00	17.01	13.04
	3:50:00	16.99	13.03
	4:00:00	16.96	13.04
	4:10:00	16.94	13.03
	4:20:00	16.96	13.03
	4:30:00	16.90	13.02
	4:40:00	16.91	13.01
	4:50:00	16.87	13.02
	5:00:00	16.84	13.01
	5:10:00	16.82	13.01
	5:20:00	16.84	13.01
	5:30:00	16.84	12.99
	5:40:00	16.77	13.00
	5:50:00	16.76	13.00
	6:00:00	16.73	13.00
	6:10:00	16.75	13.02
	6:20:00	16.77	13.06
	6:30:00	16.81	12.85
	6:40:00	16.79	13.07
	6:50:00	16.68	13.23
	7:00:00	16.70	13.39
	7:10:00	16.64	13.55
	7:20:00	16.56	13.73
	7:30:00	16.54	13.88
	7:40:00	16.54	14.07
	7:50:00	16.55	14.14
	8:00:00	16.55	15.00
	8:10:00	16.41	15.00
	8:20:00	16.58	14.53
	8:30:00	16.61	14.42
	8:40:00	16.61	14.47
	8:50:00	16.59	14.48
	9:00:00	16.61	14.35
	9:10:00	16.64	14.33
	9:20:00	16.64	14.39
	9:30:00	16.59	14.47

6/19/2009	9:40:00	16.61	14.45
	9:50:00	16.66	14.43
	10:00:00	16.61	14.35
	10:10:00	16.60	14.35
	10:20:00	16.60	14.31
	10:30:00	16.60	14.32
	10:40:00	16.61	14.38
	10:50:00	16.65	14.40
	11:00:00	16.66	14.51
	11:10:00	16.65	14.50
	11:20:00	16.65	14.56
	11:30:00	16.71	14.59
	11:40:00	16.73	14.63
	11:50:00	16.73	15.00
	12:00:00	17.41	15.00
	12:10:00	16.84	15.00
	12:20:00	17.15	15.00
	12:30:00	17.13	15.00
	12:40:00	17.17	14.76
	12:50:00	17.30	14.54
	13:00:00	17.39	14.62
	13:10:00	17.46	14.49
	13:20:00	17.54	14.67
	13:30:00	17.65	14.45
	13:40:00	17.72	14.42
	13:50:00	17.89	14.58
	14:00:00	18.02	14.56
	14:10:00	18.15	14.36
	14:20:00	18.22	14.48
	14:30:00	18.33	14.30
	14:40:00	18.49	14.47
	14:50:00	18.39	14.33
	15:00:00	18.53	14.39
	15:10:00	18.63	14.34
	15:20:00	18.61	14.34
	15:30:00	18.70	14.20
	15:40:00	18.71	14.35
	15:50:00	18.74	14.25
	16:00:00	18.74	14.14
	16:10:00	18.67	14.21
	16:20:00	18.55	14.02
	16:30:00	18.59	14.02
	16:40:00	18.52	13.91
	16:50:00	18.42	13.92
	17:00:00	18.44	14.12
	17:10:00	18.31	14.03
	17:20:00	18.18	14.17
	17:30:00	18.13	14.15
	17:40:00	18.13	14.07
	17:50:00	18.00	13.99
	18:00:00	17.89	13.96
	18:10:00	17.78	13.91



6/19/2009	18:20:00	17.61	14.02
	18:30:00	17.56	14.03
	18:40:00	17.61	14.04
	18:50:00	17.64	14.00
	19:00:00	17.69	13.98
	19:10:00	17.66	13.95
	19:20:00	17.59	13.96
	19:30:00	17.54	13.93
	19:40:00	17.53	13.85
	19:50:00	17.49	13.80
	20:00:00	17.43	13.75
	20:10:00	17.41	13.69
	20:20:00	17.41	13.62
	20:30:00	17.38	13.55
	20:40:00	17.24	13.47
	20:50:00	17.25	13.39
	21:00:00	17.22	13.31
	21:10:00	17.15	13.23
	21:20:00	17.04	13.18
	21:30:00	17.00	13.13
	21:40:00	16.92	13.10
	21:50:00	16.88	13.09
	22:00:00	16.88	13.10
	22:10:00	16.93	13.10
	22:20:00	16.95	13.10
	22:30:00	16.91	13.11
	22:40:00	16.89	13.10
	22:50:00	16.84	13.10
	23:00:00	16.86	13.10
	23:10:00	16.86	13.10
23:20:00	16.81	13.10	
23:30:00	16.78	13.09	
23:40:00	16.76	13.09	
23:50:00	16.58	13.08	
6/20/2009	0:00:00	16.57	13.08
	0:10:00	16.64	13.08
	0:20:00	16.81	13.07
	0:30:00	16.76	13.08
	0:40:00	16.78	13.08
	0:50:00	16.73	13.08
	1:00:00	16.86	13.07
	1:10:00	16.88	13.08
	1:20:00	16.84	13.07
	1:30:00	16.78	13.07
	1:40:00	16.82	13.07
	1:50:00	16.82	13.06
	2:00:00	16.86	13.06
	2:10:00	16.84	13.06
	2:20:00	16.84	13.06
	2:30:00	16.84	13.05
	2:40:00	16.82	13.05
2:50:00	16.91	13.03	

6/20/2009	3:00:00	17.24	13.04
	3:10:00	17.63	13.04
	3:20:00	18.00	13.04
	3:30:00	18.24	13.03
	3:40:00	18.46	13.03
	3:50:00	18.62	13.03
	4:00:00	18.78	13.02
	4:10:00	18.86	13.02
	4:20:00	18.95	13.02
	4:30:00	19.02	13.01
	4:40:00	19.07	13.01
	4:50:00	19.12	13.00
	5:00:00	19.16	13.00
	5:10:00	19.20	13.00
	5:20:00	19.27	12.99
	5:30:00	19.25	12.99
	5:40:00	19.27	12.99
	5:50:00	19.29	12.99
	6:00:00	19.27	12.99
	6:10:00	19.29	12.99
	6:20:00	19.33	13.00
	6:30:00	19.33	13.01
	6:40:00	19.33	12.99
	6:50:00	19.31	13.00
	7:00:00	19.31	12.98
	7:10:00	19.36	13.05
	7:20:00	19.31	13.20
	7:30:00	19.31	13.28
	7:40:00	19.33	13.39
	7:50:00	19.33	13.40
	8:00:00	19.33	13.53
	8:10:00	19.31	13.58
	8:20:00	19.36	13.65
	8:30:00	19.38	13.63
	8:40:00	19.33	13.60
	8:50:00	19.36	13.77
	9:00:00	19.42	13.83
	9:10:00	19.40	13.74
	9:20:00	19.44	13.79
	9:30:00	19.44	13.77
	9:40:00	19.44	14.09
	9:50:00	19.46	14.22
	10:00:00	19.51	15.00
	10:10:00	19.53	14.44
	10:20:00	19.59	14.74
	10:30:00	19.60	14.45
	10:40:00	19.63	14.57
	10:50:00	19.60	14.41
	11:00:00	19.60	14.90
	11:10:00	18.68	14.36
	11:20:00	17.87	14.54
	11:30:00	17.72	14.49

6/20/2009	11:40:00	17.71	14.49
	11:50:00	17.63	14.35
	12:00:00	17.59	14.41
	12:10:00	17.61	14.41
	12:20:00	17.63	14.44
	12:30:00	18.57	15.00
	12:40:00	17.72	15.00
	12:50:00	17.78	14.50
	13:00:00	17.81	14.46
	13:10:00	17.76	14.25
	13:20:00	17.72	14.32
	13:30:00	17.72	14.28
	13:40:00	17.63	14.34
	13:50:00	17.62	14.54
	14:00:00	17.65	14.32
	14:10:00	17.62	15.00
	14:20:00	17.71	14.52
	14:30:00	17.69	14.42
	14:40:00	17.82	14.47
	14:50:00	17.91	14.41
	15:00:00	18.02	14.14
	15:10:00	17.98	14.33
	15:20:00	17.85	14.04
	15:30:00	17.86	14.27
	15:40:00	17.89	14.26
	15:50:00	17.93	14.17
	16:00:00	17.89	14.50
	16:10:00	17.96	14.30
	16:20:00	17.97	14.21
	16:30:00	18.06	14.52
	16:40:00	18.12	14.41
	16:50:00	18.17	14.37
	17:00:00	18.22	14.36
	17:10:00	18.33	14.27
	17:20:00	18.37	14.11
	17:30:00	18.48	14.18
	17:40:00	18.50	14.16
	17:50:00	18.53	14.17
	18:00:00	18.54	14.14
	18:10:00	18.56	14.17
	18:20:00	18.39	14.06
	18:30:00	18.26	14.08
	18:40:00	18.22	14.08
	18:50:00	18.30	14.05
	19:00:00	18.26	13.99
	19:10:00	18.27	13.95
	19:20:00	18.22	13.93
	19:30:00	18.29	13.99
	19:40:00	18.39	13.93
	19:50:00	18.38	13.89
	20:00:00	18.39	13.71
	20:10:00	18.35	13.72

6/20/2009	20:20:00	18.35	13.66
	20:30:00	18.39	13.61
	20:40:00	18.46	13.54
	20:50:00	18.46	13.47
	21:00:00	18.48	13.39
	21:10:00	18.54	13.32
	21:20:00	18.57	13.25
	21:30:00	18.63	13.19
	21:40:00	18.55	13.14
	21:50:00	18.50	13.10
	22:00:00	18.53	13.10
	22:10:00	18.60	13.10
	22:20:00	18.55	13.11
	22:30:00	18.50	13.11
	22:40:00	18.52	13.11
	22:50:00	18.50	13.11
	23:00:00	18.53	13.11
	23:10:00	18.53	13.11
	23:20:00	18.49	13.11
	23:30:00	18.53	13.10
	23:40:00	18.55	13.10
	23:50:00	18.61	13.10
	6/21/2009	0:00:00	18.56
0:10:00		18.60	13.10
0:20:00		18.54	13.10
0:30:00		18.48	13.10
0:40:00		18.37	13.10
0:50:00		18.39	13.10
1:00:00		18.33	13.10
1:10:00		18.35	13.10
1:20:00		18.29	13.10
1:30:00		18.32	13.09
1:40:00		18.24	13.09
1:50:00		18.31	13.09
2:00:00		18.68	13.08
2:10:00		18.86	13.08
2:20:00		19.03	13.08
2:30:00		19.18	13.08
2:40:00		19.25	13.07
2:50:00		19.27	13.07
3:00:00		19.29	13.06
3:10:00		19.37	13.06
3:20:00		19.31	13.06
3:30:00		19.33	13.05
3:40:00		19.31	13.05
3:50:00	19.31	13.05	
4:00:00	19.27	13.05	
4:10:00	19.31	13.04	
4:20:00	19.29	13.04	
4:30:00	19.29	13.03	
4:40:00	19.28	13.02	
4:50:00	19.25	13.02	

6/21/2009	5:00:00	19.19	13.03
	5:10:00	19.16	13.02
	5:20:00	19.14	13.01
	5:30:00	19.18	13.00
	5:40:00	19.12	13.00
	5:50:00	19.07	13.01
	6:00:00	19.07	13.01
	6:10:00	19.05	13.03
	6:20:00	19.04	13.05
	6:30:00	19.04	13.07
	6:40:00	19.04	13.12
	6:50:00	19.02	13.06
	7:00:00	18.98	12.99
	7:10:00	18.94	13.16
	7:20:00	18.94	13.40
	7:30:00	18.93	13.70
	7:40:00	18.93	13.84
	7:50:00	18.90	13.84
	8:00:00	18.89	13.95
	8:10:00	18.91	13.77
	8:20:00	18.88	15.00
	8:30:00	18.95	15.00
	8:40:00	18.91	14.62
	8:50:00	18.90	14.56
	9:00:00	18.85	14.58
	9:10:00	18.85	14.51
	9:20:00	18.80	14.39
	9:30:00	18.86	14.37
	9:40:00	18.83	14.61
	9:50:00	18.82	14.77
	10:00:00	18.82	14.46
	10:10:00	18.81	14.45
	10:20:00	18.82	14.47
	10:30:00	18.80	14.43
	10:40:00	18.78	14.41
	10:50:00	18.74	14.40
	11:00:00	18.76	14.67
	11:10:00	18.78	14.56
	11:20:00	18.76	14.47
	11:30:00	18.76	14.49
	11:40:00	18.73	14.47
	11:50:00	18.76	14.61
	12:00:00	18.77	14.84
	12:10:00	18.81	14.67
	12:20:00	18.92	14.58
	12:30:00	19.90	15.00
	12:40:00	18.98	14.52
	12:50:00	18.96	14.79
	13:00:00	19.12	14.43
	13:10:00	19.20	14.90
	13:20:00	19.33	14.43
	13:30:00	19.40	14.41

6/21/2009	13:40:00	19.57	14.56
	13:50:00	19.73	14.32
	14:00:00	19.67	14.65
	14:10:00	19.95	14.26
	14:20:00	20.05	14.59
	14:30:00	20.22	14.30
	14:40:00	20.29	14.57
	14:50:00	20.37	14.29
	15:00:00	20.39	14.05
	15:10:00	20.45	14.17
	15:20:00	20.36	14.53
	15:30:00	20.49	14.31
	15:40:00	20.53	14.52
	15:50:00	20.59	14.32
	16:00:00	20.46	14.00
	16:10:00	20.44	13.98
	16:20:00	20.43	14.09
	16:30:00	20.36	14.05
	16:40:00	20.23	14.16
	16:50:00	20.36	14.14
	17:00:00	20.38	14.15
	17:10:00	20.38	14.13
	17:20:00	20.40	14.15
	17:30:00	20.36	14.18
	17:40:00	20.32	14.09
	17:50:00	20.29	14.13
	18:00:00	20.23	14.14
	18:10:00	20.25	14.11
	18:20:00	20.23	14.06
	18:30:00	20.16	14.02
	18:40:00	20.12	14.05
	18:50:00	20.12	14.04
	19:00:00	20.08	14.04
	19:10:00	20.05	13.99
	19:20:00	19.99	13.99
	19:30:00	20.02	13.91
	19:40:00	19.97	13.84
	19:50:00	19.90	13.78
	20:00:00	19.89	13.73
	20:10:00	19.89	13.68
	20:20:00	19.81	13.63
	20:30:00	19.79	13.58
	20:40:00	19.73	13.53
	20:50:00	19.73	13.46
	21:00:00	19.68	13.39
	21:10:00	19.68	13.33
	21:20:00	19.66	13.26
	21:30:00	19.62	13.21
	21:40:00	19.57	13.15
	21:50:00	19.55	13.11
	22:00:00	19.53	13.09
	22:10:00	19.51	13.07

Permit No. GA1992S009(07)

Temp Sensor/Recorder Data June 01, 2009 - July 01 2009

6/21/2009	22:20:00	19.49	13.07
	22:30:00	19.44	13.08
	22:40:00	19.42	13.08
	22:50:00	19.40	13.08
	23:00:00	19.38	13.08
	23:10:00	19.40	13.08
	23:20:00	19.36	13.08
	23:30:00	19.31	13.08
	23:40:00	19.29	13.07
	23:50:00	19.31	13.08
6/22/2009	0:00:00	19.25	13.08
	0:10:00	19.22	13.07
	0:20:00	19.20	13.07
	0:30:00	19.14	13.06
	0:40:00	19.15	13.07
	0:50:00	19.10	13.07
	1:00:00	19.05	13.06
	1:10:00	19.06	13.06
	1:20:00	19.02	13.06
	1:30:00	18.98	13.05
	1:40:00	18.96	13.06
	1:50:00	18.94	13.06
	2:00:00	18.88	13.06
	2:10:00	18.93	13.06
	2:20:00	18.83	13.06
	2:30:00	18.82	13.06
	2:40:00	18.76	13.05
	2:50:00	18.72	13.05
	3:00:00	18.72	13.05
	3:10:00	18.66	13.05
	3:20:00	18.65	13.05
	3:30:00	18.62	13.05
	3:40:00	18.58	13.04
	3:50:00	18.57	13.04
	4:00:00	18.53	13.03
	4:10:00	18.46	13.03
	4:20:00	18.46	13.02
	4:30:00	18.42	13.02
	4:40:00	18.39	13.02
	4:50:00	18.35	13.01
	5:00:00	18.33	13.01
	5:10:00	18.24	13.01
	5:20:00	18.29	13.01
	5:30:00	18.29	13.01
	5:40:00	18.23	13.00
	5:50:00	18.20	12.99
	6:00:00	18.21	13.01
	6:10:00	18.14	13.01
	6:20:00	18.13	13.03
	6:30:00	18.19	13.04
	6:40:00	18.09	13.08
	6:50:00	18.07	13.06

6/22/2009	7:00:00	18.09	13.18
	7:10:00	18.02	13.36
	7:20:00	18.03	13.48
	7:30:00	18.01	13.77
	7:40:00	18.01	13.98
	7:50:00	17.95	14.14
	8:00:00	17.95	14.07
	8:10:00	17.96	14.14
	8:20:00	17.93	15.00
	8:30:00	17.99	15.00
	8:40:00	18.11	15.00
	8:50:00	19.14	15.00
	9:00:00	18.89	15.00
	9:10:00	18.27	15.00
	9:20:00	18.10	14.90
	9:30:00	18.09	15.00
	9:40:00	18.09	14.51
	9:50:00	18.11	14.51
	10:00:00	18.01	15.00
	10:10:00	18.34	14.52
	10:20:00	18.35	14.53
	10:30:00	18.31	14.83
	10:40:00	18.46	14.73
	10:50:00	18.50	14.43
	11:00:00	18.49	14.76
	11:10:00	18.55	14.82
	11:20:00	18.59	14.38
	11:30:00	18.53	14.77
	11:40:00	18.74	14.69
	11:50:00	18.78	14.65
	12:00:00	18.94	14.22
	12:10:00	18.94	14.35
	12:20:00	19.03	14.24
	12:30:00	19.01	14.15
	12:40:00	19.03	14.64
	12:50:00	19.25	14.68
	13:00:00	18.92	14.33
	13:10:00	18.18	14.59
	13:20:00	17.91	14.55
	13:30:00	18.02	14.12
	13:40:00	17.89	14.12
	13:50:00	18.05	14.51
	14:00:00	18.18	14.50
	14:10:00	18.17	14.30
	14:20:00	18.09	14.23
	14:30:00	18.00	14.08
	14:40:00	18.02	14.01
	14:50:00	18.05	13.84
	15:00:00	17.98	14.09
	15:10:00	18.12	14.25
	15:20:00	18.03	14.06
	15:30:00	18.02	14.13



6/22/2009	15:40:00	18.02	14.25
	15:50:00	18.13	14.35
	16:00:00	18.13	14.40
	16:10:00	18.20	14.30
	16:20:00	18.33	14.28
	16:30:00	18.37	14.25
	16:40:00	18.72	14.21
	16:50:00	19.22	14.24
	17:00:00	19.71	14.16
	17:10:00	19.84	14.11
	17:20:00	19.46	13.95
	17:30:00	18.96	13.98
	17:40:00	18.74	13.98
	17:50:00	18.59	13.94
	18:00:00	18.53	13.93
	18:10:00	18.44	13.88
	18:20:00	18.31	13.93
	18:30:00	18.26	14.02
	18:40:00	18.22	14.03
	18:50:00	18.15	13.94
	19:00:00	18.05	13.90
	19:10:00	18.00	13.94
	19:20:00	17.91	13.84
	19:30:00	17.85	13.78
	19:40:00	17.81	13.73
	19:50:00	17.77	13.74
	20:00:00	17.74	13.76
	20:10:00	17.72	13.71
	20:20:00	17.70	13.67
	20:30:00	17.78	13.64
	20:40:00	18.07	13.56
	20:50:00	18.41	13.48
	21:00:00	18.63	13.40
	21:10:00	18.83	13.33
	21:20:00	18.95	13.26
	21:30:00	19.07	13.20
	21:40:00	19.14	13.14
	21:50:00	19.22	13.10
	22:00:00	19.25	13.08
	22:10:00	19.37	13.07
	22:20:00	19.33	13.08
	22:30:00	19.36	13.08
	22:40:00	19.36	13.09
	22:50:00	19.36	13.08
	23:00:00	19.38	13.08
	23:10:00	19.37	13.08
	23:20:00	19.38	13.08
	23:30:00	19.33	13.08
	23:40:00	19.32	13.08
	23:50:00	19.31	13.07
6/23/2009	0:00:00	19.27	13.07
	0:10:00	19.25	13.06

6/23/2009	0:20:00	19.22	13.06
	0:30:00	19.25	13.06
	0:40:00	19.21	13.06
	0:50:00	19.18	13.06
	1:00:00	19.20	13.06
	1:10:00	19.18	13.05
	1:20:00	19.14	13.05
	1:30:00	19.12	13.05
	1:40:00	19.13	13.05
	1:50:00	19.10	13.05
	2:00:00	19.07	13.05
	2:10:00	19.05	13.04
	2:20:00	19.05	13.04
	2:30:00	19.03	13.04
	2:40:00	19.02	13.04
	2:50:00	18.97	13.03
	3:00:00	18.94	13.03
	3:10:00	18.93	13.03
	3:20:00	18.90	13.03
	3:30:00	18.91	13.02
	3:40:00	18.92	13.02
	3:50:00	18.90	13.02
	4:00:00	18.88	13.01
	4:10:00	18.85	13.01
	4:20:00	18.81	13.01
	4:30:00	18.77	13.00
	4:40:00	18.78	13.00
	4:50:00	18.76	12.99
	5:00:00	18.76	12.98
	5:10:00	18.68	12.98
	5:20:00	18.61	12.99
	5:30:00	18.61	12.98
	5:40:00	18.58	12.98
	5:50:00	18.54	12.98
	6:00:00	18.52	12.99
	6:10:00	18.49	13.00
	6:20:00	18.45	13.03
	6:30:00	18.39	13.06
	6:40:00	18.41	13.12
	6:50:00	18.38	13.22
	7:00:00	18.34	13.24
	7:10:00	18.27	13.37
	7:20:00	18.23	13.26
	7:30:00	18.26	12.88
	7:40:00	18.26	12.73
	7:50:00	18.22	12.80
	8:00:00	18.24	12.91
	8:10:00	18.22	13.67
	8:20:00	18.14	15.00
	8:30:00	18.55	15.00
	8:40:00	18.92	15.00
	8:50:00	18.84	15.00

Permit No. GA1992S009(07)

Temp Sensor/Recorder Data June 01, 2009 - July 01 2009

6/23/2009	9:00:00	18.32	15.00
	9:10:00	18.11	15.00
	9:20:00	18.15	14.95
	9:30:00	18.15	14.87
	9:40:00	18.15	14.83
	9:50:00	18.22	14.80
	10:00:00	18.20	14.78
	10:10:00	18.26	14.61
	10:20:00	18.29	14.60
	10:30:00	18.35	14.59
	10:40:00	18.39	14.58
	10:50:00	18.48	14.56
	11:00:00	18.55	14.54
	11:10:00	18.57	14.67
	11:20:00	18.68	14.65
	11:30:00	18.88	14.59
	11:40:00	18.91	14.57
	11:50:00	19.12	14.54
	12:00:00	19.26	14.51
	12:10:00	19.41	14.48
	12:20:00	19.52	14.46
	12:30:00	19.69	14.45
	12:40:00	19.83	14.07
	12:50:00	19.98	14.21
	13:00:00	20.01	14.46
	13:10:00	20.27	14.38
	13:20:00	20.32	14.41
	13:30:00	20.48	14.10
	13:40:00	20.57	14.18
	13:50:00	20.72	14.08
	14:00:00	20.85	14.13
	14:10:00	21.09	14.05
	14:20:00	21.28	13.93
	14:30:00	21.39	14.35
	14:40:00	21.68	14.16
	14:50:00	21.85	14.34
	15:00:00	21.86	14.31
	15:10:00	22.04	14.01
	15:20:00	22.06	14.32
	15:30:00	22.18	13.96
	15:40:00	22.19	13.95
	15:50:00	22.26	14.13
	16:00:00	22.24	14.21
	16:10:00	22.39	14.23
	16:20:00	22.30	14.08
	16:30:00	22.42	14.22
	16:40:00	22.39	13.99
	16:50:00	22.37	14.15
	17:00:00	22.26	14.11
	17:10:00	21.99	14.02
	17:20:00	21.69	14.03
	17:30:00	20.19	13.95

6/23/2009	17:40:00	19.52	13.91
	17:50:00	19.31	13.88
	18:00:00	19.04	13.87
	18:10:00	18.96	13.82
	18:20:00	18.84	13.78
	18:30:00	18.72	13.77
	18:40:00	18.60	13.84
	18:50:00	18.54	13.86
	19:00:00	18.42	13.88
	19:10:00	18.38	13.80
	19:20:00	18.31	13.79
	19:30:00	18.24	13.76
	19:40:00	18.21	13.71
	19:50:00	18.20	13.72
	20:00:00	18.13	13.71
	20:10:00	18.11	13.66
	20:20:00	18.07	13.61
	20:30:00	18.07	13.56
	20:40:00	18.07	13.49
	20:50:00	18.05	13.43
	21:00:00	18.18	13.36
	21:10:00	18.53	13.30
	21:20:00	18.81	13.23
	21:30:00	19.05	13.18
	21:40:00	19.22	13.13
	21:50:00	19.36	13.09
	22:00:00	19.46	13.07
	22:10:00	19.53	13.06
	22:20:00	19.61	13.06
	22:30:00	19.64	13.07
	22:40:00	19.66	13.07
	22:50:00	19.64	13.07
	23:00:00	19.64	13.07
23:10:00	19.64	13.06	
23:20:00	19.62	13.06	
23:30:00	19.62	13.06	
23:40:00	19.60	13.05	
23:50:00	19.61	13.05	
6/24/2009	0:00:00	19.55	13.05
	0:10:00	19.55	13.05
	0:20:00	19.53	13.04
	0:30:00	19.49	13.04
	0:40:00	19.44	13.05
	0:50:00	19.46	13.04
	1:00:00	19.43	13.04
	1:10:00	19.41	13.05
	1:20:00	19.39	13.04
	1:30:00	19.32	13.04
	1:40:00	19.29	13.04
	1:50:00	19.30	13.04
	2:00:00	19.22	13.03
2:10:00	19.26	13.04	

6/24/2009	2:20:00	19.25	13.04
	2:30:00	19.16	13.03
	2:40:00	19.16	13.03
	2:50:00	19.12	13.02
	3:00:00	19.13	13.03
	3:10:00	19.07	13.02
	3:20:00	19.06	13.03
	3:30:00	19.08	13.02
	3:40:00	19.02	13.02
	3:50:00	18.98	13.02
	4:00:00	18.95	13.02
	4:10:00	18.93	13.01
	4:20:00	18.86	13.01
	4:30:00	18.85	13.01
	4:40:00	18.82	13.01
	4:50:00	18.79	13.00
	5:00:00	18.73	13.01
	5:10:00	18.69	13.00
	5:20:00	18.71	13.00
	5:30:00	18.69	12.99
	5:40:00	18.61	13.00
	5:50:00	18.56	13.00
	6:00:00	18.53	13.01
	6:10:00	18.49	13.03
	6:20:00	18.45	13.07
	6:30:00	18.45	13.12
	6:40:00	18.37	13.24
	6:50:00	18.31	13.37
	7:00:00	18.29	13.47
	7:10:00	18.25	13.68
	7:20:00	18.23	13.96
	7:30:00	18.19	14.12
	7:40:00	18.14	14.65
	7:50:00	18.08	14.16
	8:00:00	18.06	14.25
	8:10:00	18.70	15.00
	8:20:00	18.85	15.00
	8:30:00	18.62	15.00
	8:40:00	18.25	15.00
	8:50:00	17.81	15.00
	9:00:00	18.02	15.00
	9:10:00	18.09	15.00
	9:20:00	18.15	14.67
	9:30:00	18.15	15.00
	9:40:00	18.23	14.89
	9:50:00	18.29	14.83
	10:00:00	18.33	14.79
	10:10:00	18.42	14.60
	10:20:00	18.46	14.61
	10:30:00	18.58	14.61
	10:40:00	18.65	14.59
	10:50:00	18.73	14.58

6/24/2009	11:00:00	18.84	14.57
	11:10:00	18.97	14.58
	11:20:00	19.01	14.63
	11:30:00	19.20	14.59
	11:40:00	19.33	14.56
	11:50:00	19.55	14.52
	12:00:00	19.68	14.50
	12:10:00	19.87	14.47
	12:20:00	20.01	14.45
	12:30:00	20.15	14.38
	12:40:00	20.34	14.42
	12:50:00	20.52	14.39
	13:00:00	20.58	14.38
	13:10:00	20.82	14.36
	13:20:00	20.97	14.35
	13:30:00	21.12	14.02
	13:40:00	21.04	14.32
	13:50:00	21.27	14.30
	14:00:00	21.46	14.26
	14:10:00	21.79	14.25
	14:20:00	21.92	14.25
	14:30:00	22.04	14.22
	14:40:00	22.12	14.20
	14:50:00	22.37	14.19
	15:00:00	22.40	14.18
	15:10:00	22.71	14.17
	15:20:00	22.83	14.15
	15:30:00	22.93	14.15
	15:40:00	23.04	14.14
	15:50:00	23.16	14.11
	16:00:00	23.23	13.88
	16:10:00	23.17	13.80
	16:20:00	23.25	14.11
	16:30:00	23.40	14.10
	16:40:00	23.30	13.84
	16:50:00	23.32	14.03
	17:00:00	23.24	13.88
	17:10:00	23.20	13.84
	17:20:00	23.23	13.90
	17:30:00	23.24	13.87
	17:40:00	23.23	13.82
	17:50:00	22.98	13.75
	18:00:00	22.71	13.71
	18:10:00	22.41	13.69
	18:20:00	20.73	13.68
	18:30:00	19.40	13.68
	18:40:00	19.31	13.68
	18:50:00	19.14	13.68
	19:00:00	18.96	13.68
	19:10:00	18.79	13.67
	19:20:00	18.71	13.66
	19:30:00	18.57	13.64

6/24/2009	19:40:00	18.50	13.62
	19:50:00	18.42	13.59
	20:00:00	18.35	13.56
	20:10:00	18.24	13.54
	20:20:00	18.24	13.51
	20:30:00	18.18	13.46
	20:40:00	18.17	13.41
	20:50:00	18.07	13.35
	21:00:00	18.06	13.29
	21:10:00	18.02	13.23
	21:20:00	18.05	13.17
	21:30:00	18.02	13.12
	21:40:00	17.99	13.08
	21:50:00	18.02	13.06
	22:00:00	18.00	13.05
	22:10:00	18.01	13.05
	22:20:00	18.10	13.06
	22:30:00	18.21	13.06
	22:40:00	18.49	13.06
	22:50:00	18.74	13.06
	23:00:00	18.94	13.06
	23:10:00	19.07	13.06
	23:20:00	19.20	13.05
23:30:00	19.29	13.05	
23:40:00	19.38	13.05	
23:50:00	19.42	13.04	
6/25/2009	0:00:00	19.44	13.04
	0:10:00	19.49	13.04
	0:20:00	19.51	13.04
	0:30:00	19.56	13.04
	0:40:00	19.54	13.03
	0:50:00	19.51	13.03
	1:00:00	19.55	13.03
	1:10:00	19.55	13.03
	1:20:00	19.53	13.03
	1:30:00	19.51	13.02
	1:40:00	19.51	13.03
	1:50:00	19.49	13.02
	2:00:00	19.45	13.02
	2:10:00	19.46	13.02
	2:20:00	19.44	13.01
	2:30:00	19.40	13.01
	2:40:00	19.39	13.01
	2:50:00	19.36	13.01
	3:00:00	19.39	13.00
	3:10:00	19.35	13.00
3:20:00	19.35	12.99	
3:30:00	19.30	13.00	
3:40:00	19.30	13.00	
3:50:00	19.27	12.99	
4:00:00	19.22	12.99	
4:10:00	19.21	12.99	

6/25/2009	4:20:00	19.21	12.98
	4:30:00	19.19	12.99
	4:40:00	19.17	12.98
	4:50:00	19.14	12.98
	5:00:00	19.09	12.98
	5:10:00	19.13	12.97
	5:20:00	19.08	12.97
	5:30:00	19.06	12.96
	5:40:00	18.98	12.96
	5:50:00	18.97	12.98
	6:00:00	18.98	12.98
	6:10:00	18.94	13.03
	6:20:00	18.93	13.08
	6:30:00	18.86	13.13
	6:40:00	18.85	13.19
	6:50:00	18.82	13.31
	7:00:00	18.82	13.49
	7:10:00	18.83	13.60
	7:20:00	18.80	13.07
	7:30:00	18.77	13.30
	7:40:00	18.77	13.59
	7:50:00	18.78	13.81
	8:00:00	18.72	13.94
	8:10:00	18.77	14.05
	8:20:00	18.76	14.28
	8:30:00	18.55	15.00
	8:40:00	19.17	15.00
	8:50:00	19.03	15.00
	9:00:00	18.80	15.00
	9:10:00	18.57	15.00
	9:20:00	18.93	15.00
	9:30:00	18.96	15.00
	9:40:00	19.06	14.61
	9:50:00	19.56	15.00
	10:00:00	19.22	15.00
	10:10:00	19.33	14.78
	10:20:00	19.44	14.76
	10:30:00	19.60	14.71
	10:40:00	19.68	14.78
	10:50:00	19.73	14.74
	11:00:00	19.83	14.66
	11:10:00	19.99	14.74
	11:20:00	20.10	14.66
	11:30:00	20.28	14.63
	11:40:00	20.47	14.58
	11:50:00	20.68	14.58
	12:00:00	20.82	14.46
	12:10:00	20.99	14.53
	12:20:00	21.21	14.45
	12:30:00	21.36	14.22
	12:40:00	21.49	14.20
	12:50:00	21.69	14.44



6/25/2009	13:00:00	21.90	14.03
	13:10:00	21.80	14.16
	13:20:00	21.97	14.46
	13:30:00	22.08	13.97
	13:40:00	21.99	14.06
	13:50:00	22.16	14.06
	14:00:00	22.19	14.32
	14:10:00	22.39	14.36
	14:20:00	22.53	14.28
	14:30:00	22.57	14.15
	14:40:00	22.68	14.43
	14:50:00	22.98	14.24
	15:00:00	23.10	14.29
	15:10:00	23.28	14.20
	15:20:00	23.37	14.28
	15:30:00	23.51	14.18
	15:40:00	23.72	14.24
	15:50:00	23.90	14.19
	16:00:00	23.85	14.17
	16:10:00	24.01	14.19
	16:20:00	23.90	14.12
	16:30:00	24.05	14.09
	16:40:00	24.05	14.05
	16:50:00	24.04	14.02
	17:00:00	23.65	14.01
	17:10:00	23.48	13.91
	17:20:00	22.85	13.91
	17:30:00	21.32	13.85
	17:40:00	20.37	13.78
	17:50:00	20.14	13.76
	18:00:00	19.86	13.75
	18:10:00	19.62	13.74
	18:20:00	19.44	13.74
	18:30:00	19.18	13.74
	18:40:00	19.05	13.75
	18:50:00	18.85	13.70
	19:00:00	18.70	13.66
	19:10:00	18.53	13.75
	19:20:00	18.31	13.83
	19:30:00	18.29	13.80
	19:40:00	18.26	13.74
	19:50:00	18.18	13.68
	20:00:00	18.10	13.59
	20:10:00	18.13	13.52
	20:20:00	18.09	13.45
	20:30:00	18.11	13.39
	20:40:00	18.12	13.33
	20:50:00	18.11	13.27
	21:00:00	18.11	13.20
	21:10:00	18.13	13.14
	21:20:00	18.09	13.10
	21:30:00	18.07	13.08

6/25/2009	21:40:00	18.11	13.07
	21:50:00	18.27	13.07
	22:00:00	18.61	13.08
	22:10:00	18.96	13.08
	22:20:00	19.22	13.08
	22:30:00	19.44	13.08
	22:40:00	19.64	13.07
	22:50:00	19.81	13.07
	23:00:00	19.95	13.06
	23:10:00	20.07	13.06
	23:20:00	20.14	13.06
	23:30:00	20.19	13.06
	23:40:00	20.28	13.06
	23:50:00	20.32	13.06
6/26/2009	0:00:00	20.37	13.05
	0:10:00	20.40	13.05
	0:20:00	20.40	13.05
	0:30:00	20.40	13.05
	0:40:00	20.45	13.05
	0:50:00	20.49	13.05
	1:00:00	20.51	13.05
	1:10:00	20.51	13.05
	1:20:00	20.51	13.04
	1:30:00	20.51	13.04
	1:40:00	20.51	13.04
	1:50:00	20.53	13.04
	2:00:00	20.49	13.04
	2:10:00	20.49	13.03
	2:20:00	20.51	13.03
	2:30:00	20.49	13.03
	2:40:00	20.49	13.03
	2:50:00	20.48	13.02
	3:00:00	20.45	13.02
	3:10:00	20.51	13.02
	3:20:00	20.46	13.02
	3:30:00	20.45	13.01
	3:40:00	20.46	13.01
	3:50:00	20.42	13.01
	4:00:00	20.39	13.01
	4:10:00	20.42	13.00
	4:20:00	20.39	13.00
	4:30:00	20.38	13.00
	4:40:00	20.40	13.00
	4:50:00	20.33	13.00
	5:00:00	20.29	12.99
	5:10:00	20.33	12.99
	5:20:00	20.29	12.99
	5:30:00	20.26	12.99
5:40:00	20.26	12.99	
5:50:00	20.22	12.99	
6:00:00	20.21	12.99	
6:10:00	20.20	13.01	

6/26/2009	6:20:00	20.18	13.03
	6:30:00	20.18	13.09
	6:40:00	20.16	13.15
	6:50:00	20.12	13.24
	7:00:00	20.14	13.34
	7:10:00	20.10	13.36
	7:20:00	20.11	13.52
	7:30:00	20.12	13.64
	7:40:00	20.10	13.73
	7:50:00	20.11	13.79
	8:00:00	20.14	13.91
	8:10:00	19.85	15.00
	8:20:00	19.97	15.00
	8:30:00	20.80	15.00
	8:40:00	20.22	14.59
	8:50:00	20.24	14.53
	9:00:00	20.26	14.47
	9:10:00	20.21	14.81
	9:20:00	20.27	14.62
	9:30:00	20.34	14.43
	9:40:00	21.17	15.00
	9:50:00	20.43	14.49
	10:00:00	20.47	14.42
	10:10:00	20.45	15.00
	10:20:00	20.91	15.00
	10:30:00	20.64	15.00
	10:40:00	20.73	14.75
	10:50:00	20.95	14.88
	11:00:00	21.10	14.53
	11:10:00	21.26	14.47
	11:20:00	21.34	14.67
	11:30:00	21.56	14.37
	11:40:00	21.54	14.35
	11:50:00	21.51	14.26
	12:00:00	21.43	14.15
	12:10:00	21.34	14.50
	12:20:00	21.56	14.62
	12:30:00	21.80	14.68
	12:40:00	21.74	14.61
	12:50:00	21.98	14.34
	13:00:00	22.06	14.16
	13:10:00	21.82	14.59
	13:20:00	21.14	14.19
	13:30:00	19.60	14.42
	13:40:00	19.22	14.21
	13:50:00	19.10	14.44
	14:00:00	19.09	14.25
	14:10:00	19.15	14.28
	14:20:00	19.29	14.55
	14:30:00	19.41	14.08
	14:40:00	19.43	14.52
	14:50:00	19.51	14.40

6/26/2009	15:00:00	19.42	13.99
	15:10:00	19.38	14.06
	15:20:00	19.37	14.02
	15:30:00	19.27	14.05
	15:40:00	19.16	14.05
	15:50:00	19.31	14.34
	16:00:00	19.33	14.26
	16:10:00	19.42	14.18
	16:20:00	19.60	14.35
	16:30:00	19.68	14.16
	16:40:00	19.78	14.30
	16:50:00	19.85	14.16
	17:00:00	20.02	13.99
	17:10:00	20.08	13.95
	17:20:00	20.13	13.87
	17:30:00	20.16	13.68
	17:40:00	20.21	13.69
	17:50:00	20.27	13.71
	18:00:00	20.35	13.92
	18:10:00	20.57	14.02
	18:20:00	20.80	14.02
	18:30:00	20.99	13.96
	18:40:00	21.19	13.90
	18:50:00	21.62	13.85
	19:00:00	21.85	13.89
	19:10:00	21.92	14.00
	19:20:00	21.94	13.95
	19:30:00	20.99	13.93
	19:40:00	19.66	14.02
	19:50:00	18.96	14.03
	20:00:00	18.66	13.91
	20:10:00	18.35	13.81
	20:20:00	18.13	13.84
	20:30:00	18.02	13.78
	20:40:00	17.87	13.69
	20:50:00	17.85	13.61
	21:00:00	17.78	13.52
	21:10:00	17.78	13.44
	21:20:00	17.78	13.37
	21:30:00	17.78	13.30
	21:40:00	17.76	13.24
	21:50:00	17.79	13.18
	22:00:00	17.82	13.13
	22:10:00	17.81	13.09
	22:20:00	17.85	13.06
	22:30:00	17.88	13.06
	22:40:00	18.00	13.06
	22:50:00	18.29	13.07
	23:00:00	18.63	13.07
	23:10:00	18.96	13.08
	23:20:00	19.22	13.08
	23:30:00	19.46	13.07

6/26/2009	23:40:00	19.62	13.07
	23:50:00	19.80	13.06
6/27/2009	0:00:00	19.88	13.07
	0:10:00	19.99	13.06
	0:20:00	20.05	13.06
	0:30:00	20.08	13.06
	0:40:00	20.12	13.05
	0:50:00	20.14	13.06
	1:00:00	20.16	13.05
	1:10:00	20.16	13.05
	1:20:00	20.13	13.05
	1:30:00	20.12	13.05
	1:40:00	20.18	13.05
	1:50:00	20.13	13.06
	2:00:00	20.09	13.05
	2:10:00	20.11	13.04
	2:20:00	20.04	13.05
	2:30:00	20.04	13.05
	2:40:00	20.01	13.04
	2:50:00	19.95	13.04
	3:00:00	19.95	13.04
	3:10:00	19.90	13.04
	3:20:00	19.85	13.03
	3:30:00	19.84	13.03
	3:40:00	19.78	13.03
	3:50:00	19.75	13.03
	4:00:00	19.69	13.02
	4:10:00	19.64	13.02
	4:20:00	19.63	13.02
	4:30:00	19.61	13.01
	4:40:00	19.54	13.01
	4:50:00	19.56	13.01
	5:00:00	19.44	13.00
	5:10:00	19.44	13.00
	5:20:00	19.43	13.00
	5:30:00	19.39	12.99
	5:40:00	19.37	12.98
	5:50:00	19.37	12.99
	6:00:00	19.37	13.00
	6:10:00	19.25	13.02
	6:20:00	19.26	13.06
	6:30:00	19.25	13.13
	6:40:00	19.20	13.22
	6:50:00	19.21	13.34
	7:00:00	19.15	13.51
	7:10:00	19.15	13.71
	7:20:00	19.20	13.77
	7:30:00	19.07	13.90
	7:40:00	19.05	13.89
	7:50:00	19.01	13.94
	8:00:00	18.98	13.99
	8:10:00	19.57	15.00

6/27/2009	8:20:00	19.79	15.00
	8:30:00	19.50	15.00
	8:40:00	19.32	15.00
	8:50:00	18.99	14.71
	9:00:00	19.05	15.00
	9:10:00	19.82	15.00
	9:20:00	19.03	15.00
	9:30:00	19.12	15.00
	9:40:00	19.25	14.95
	9:50:00	19.31	14.86
	10:00:00	19.40	14.71
	10:10:00	19.49	14.67
	10:20:00	19.57	14.68
	10:30:00	19.64	14.69
	10:40:00	19.71	14.67
	10:50:00	19.88	14.63
	11:00:00	19.97	14.71
	11:10:00	19.99	14.78
	11:20:00	20.16	14.69
	11:30:00	20.29	14.40
	11:40:00	20.27	14.60
	11:50:00	20.49	14.48
	12:00:00	20.62	14.61
	12:10:00	20.91	14.54
	12:20:00	21.05	14.38
	12:30:00	21.06	14.61
	12:40:00	21.12	14.30
	12:50:00	21.17	14.07
	13:00:00	21.17	14.64
	13:10:00	21.17	14.51
	13:20:00	21.17	14.48
	13:30:00	19.97	14.45
	13:40:00	19.25	14.40
	13:50:00	19.12	14.27
	14:00:00	18.96	14.40
	14:10:00	18.98	14.33
	14:20:00	19.16	14.06
	14:30:00	19.20	14.31
	14:40:00	19.27	14.28
	14:50:00	19.37	14.33
	15:00:00	19.31	14.30
	15:10:00	19.29	14.26
	15:20:00	19.38	13.95
	15:30:00	19.49	13.98
	15:40:00	19.57	14.02
	15:50:00	19.55	14.07
	16:00:00	19.57	14.11
	16:10:00	19.64	13.98
	16:20:00	19.77	14.19
	16:30:00	20.10	14.17
	16:40:00	20.25	14.15
	16:50:00	20.51	14.12

6/27/2009	17:00:00	20.58	13.97
	17:10:00	20.73	14.00
	17:20:00	20.84	13.95
	17:30:00	21.02	13.93
	17:40:00	21.15	14.04
	17:50:00	21.22	14.01
	18:00:00	21.30	13.91
	18:10:00	21.52	13.90
	18:20:00	21.76	13.86
	18:30:00	22.09	13.84
	18:40:00	22.30	13.91
	18:50:00	22.54	14.01
	19:00:00	22.68	13.97
	19:10:00	22.74	13.87
	19:20:00	22.78	13.82
	19:30:00	22.76	13.78
	19:40:00	22.70	13.81
	19:50:00	22.68	13.79
	20:00:00	22.57	13.74
	20:10:00	22.49	13.71
	20:20:00	22.43	13.66
	20:30:00	22.35	13.60
	20:40:00	22.26	13.54
	20:50:00	22.19	13.46
	21:00:00	22.13	13.39
	21:10:00	22.05	13.32
	21:20:00	21.94	13.24
	21:30:00	21.86	13.17
	21:40:00	21.79	13.14
	21:50:00	21.68	13.10
	22:00:00	21.63	13.07
	22:10:00	21.51	13.06
	22:20:00	21.50	13.06
	22:30:00	21.41	13.07
	22:40:00	21.30	13.07
	22:50:00	21.21	13.07
	23:00:00	21.11	13.06
	23:10:00	21.04	13.06
	23:20:00	21.04	13.06
	23:30:00	20.93	13.05
	23:40:00	20.82	13.04
	23:50:00	20.72	13.05
6/28/2009	0:00:00	20.71	13.05
	0:10:00	20.64	13.05
	0:20:00	20.60	13.04
	0:30:00	20.53	13.04
	0:40:00	20.49	13.04
	0:50:00	20.45	13.04
	1:00:00	20.34	13.04
	1:10:00	20.29	13.04
	1:20:00	20.27	13.03
	1:30:00	20.25	13.03

6/28/2009	1:40:00	20.14	13.03
	1:50:00	20.14	13.03
	2:00:00	20.11	13.02
	2:10:00	20.03	13.02
	2:20:00	20.01	13.02
	2:30:00	19.99	13.02
	2:40:00	19.92	13.02
	2:50:00	19.88	13.01
	3:00:00	19.84	13.01
	3:10:00	19.80	13.01
	3:20:00	19.76	13.01
	3:30:00	19.72	12.99
	3:40:00	19.69	12.99
	3:50:00	19.63	13.00
	4:00:00	19.63	12.99
	4:10:00	19.59	12.98
	4:20:00	19.53	12.98
	4:30:00	19.46	12.97
	4:40:00	19.44	12.98
	4:50:00	19.38	12.98
	5:00:00	19.38	12.97
	5:10:00	19.30	12.97
	5:20:00	19.27	12.97
	5:30:00	19.21	12.96
	5:40:00	19.18	12.97
	5:50:00	19.17	12.97
	6:00:00	19.10	12.97
	6:10:00	19.13	12.98
	6:20:00	19.08	13.00
	6:30:00	19.06	13.06
	6:40:00	19.02	13.14
	6:50:00	19.04	13.19
	7:00:00	18.97	13.42
	7:10:00	19.00	13.47
	7:20:00	18.98	13.61
	7:30:00	18.94	13.69
	7:40:00	18.94	13.79
	7:50:00	18.91	13.89
	8:00:00	18.95	14.26
	8:10:00	18.94	14.97
	8:20:00	18.92	15.00
	8:30:00	18.97	15.00
	8:40:00	19.00	15.00
	8:50:00	18.97	14.82
	9:00:00	18.74	15.00
	9:10:00	19.07	14.67
	9:20:00	19.10	14.51
	9:30:00	19.08	14.96
	9:40:00	18.90	15.00
	9:50:00	19.15	15.00
	10:00:00	19.37	14.66
	10:10:00	19.82	15.00



6/28/2009	10:20:00	19.54	14.67
	10:30:00	19.61	15.00
	10:40:00	19.76	14.66
	10:50:00	19.87	14.52
	11:00:00	19.91	14.62
	11:10:00	20.02	14.89
	11:20:00	20.09	15.00
	11:30:00	20.28	14.51
	11:40:00	20.48	14.67
	11:50:00	20.57	14.35
	12:00:00	20.69	14.55
	12:10:00	20.84	14.46
	12:20:00	20.91	14.36
	12:30:00	21.08	14.56
	12:40:00	21.19	14.69
	12:50:00	21.54	14.61
	13:00:00	21.76	14.32
	13:10:00	21.91	14.28
	13:20:00	21.90	14.29
	13:30:00	22.16	14.36
	13:40:00	22.27	14.17
	13:50:00	22.26	14.17
	14:00:00	22.37	14.16
	14:10:00	22.28	14.03
	14:20:00	22.39	14.07
	14:30:00	22.46	14.21
	14:40:00	22.51	14.12
	14:50:00	22.48	14.12
	15:00:00	22.50	14.25
	15:10:00	22.48	14.27
	15:20:00	22.61	14.47
	15:30:00	22.69	14.29
	15:40:00	22.64	14.28
	15:50:00	22.66	14.12
	16:00:00	22.63	14.07
	16:10:00	22.65	14.42
	16:20:00	22.68	14.32
	16:30:00	22.78	14.41
	16:40:00	22.68	14.25
	16:50:00	22.54	14.23
	17:00:00	22.33	14.26
	17:10:00	22.04	14.12
	17:20:00	20.62	14.12
	17:30:00	19.09	14.17
	17:40:00	18.85	14.32
	17:50:00	18.74	14.16
	18:00:00	18.57	14.13
	18:10:00	18.50	14.16
	18:20:00	18.44	14.16
	18:30:00	18.33	14.07
	18:40:00	18.24	14.07
	18:50:00	18.20	13.98

6/28/2009	19:00:00	18.15	13.93
	19:10:00	18.09	13.88
	19:20:00	18.02	13.86
	19:30:00	18.02	13.83
	19:40:00	17.96	13.79
	19:50:00	17.94	13.75
	20:00:00	17.94	13.72
	20:10:00	17.96	13.67
	20:20:00	17.98	13.64
	20:30:00	17.91	13.59
	20:40:00	17.98	13.53
	20:50:00	17.96	13.46
	21:00:00	17.94	13.39
	21:10:00	17.96	13.32
	21:20:00	17.98	13.25
	21:30:00	17.94	13.19
	21:40:00	17.93	13.14
	21:50:00	17.95	13.10
	22:00:00	17.97	13.08
	22:10:00	17.87	13.07
	22:20:00	17.93	13.08
	22:30:00	18.01	13.07
	22:40:00	18.09	13.08
	22:50:00	18.26	13.08
	23:00:00	18.48	13.08
23:10:00	18.61	13.07	
23:20:00	18.79	13.07	
23:30:00	18.93	13.07	
23:40:00	19.06	13.07	
23:50:00	19.16	13.06	
6/29/2009	0:00:00	19.26	13.06
	0:10:00	19.25	13.06
	0:20:00	19.35	13.05
	0:30:00	19.41	13.05
	0:40:00	19.41	13.05
	0:50:00	19.42	13.05
	1:00:00	19.45	13.04
	1:10:00	19.46	13.05
	1:20:00	19.45	13.05
	1:30:00	19.44	13.05
	1:40:00	19.49	13.04
	1:50:00	19.45	13.04
	2:00:00	19.45	13.04
	2:10:00	19.45	13.04
	2:20:00	19.40	13.04
	2:30:00	19.40	13.03
	2:40:00	19.36	13.03
2:50:00	19.36	13.03	
3:00:00	19.30	13.02	
3:10:00	19.32	13.02	
3:20:00	19.25	13.01	
3:30:00	19.24	13.01	

Permit No. GA1992S009(07)

Temp Sensor/Recorder Data June 01, 2009 - July 01 2009

6/29/2009	3:40:00	19.18	13.00
	3:50:00	19.16	12.99
	4:00:00	19.12	12.99
	4:10:00	19.05	12.99
	4:20:00	19.04	12.98
	4:30:00	19.02	12.97
	4:40:00	18.93	12.98
	4:50:00	18.90	12.96
	5:00:00	18.89	12.97
	5:10:00	18.83	12.96
	5:20:00	18.81	12.96
	5:30:00	18.72	12.95
	5:40:00	18.70	12.95
	5:50:00	18.67	12.96
	6:00:00	18.62	12.97
	6:10:00	18.57	13.00
	6:20:00	18.54	13.06
	6:30:00	18.49	13.14
	6:40:00	18.45	13.24
	6:50:00	18.45	13.34
	7:00:00	18.42	13.41
	7:10:00	18.41	13.51
	7:20:00	18.34	13.63
	7:30:00	18.31	13.65
	7:40:00	18.32	13.83
	7:50:00	18.27	13.94
	8:00:00	18.30	14.27
	8:10:00	18.53	15.00
	8:20:00	19.16	15.00
	8:30:00	19.13	15.00
	8:40:00	18.80	15.00
	8:50:00	18.32	15.00
	9:00:00	18.18	15.00
	9:10:00	18.42	15.00
	9:20:00	18.53	14.69
	9:30:00	18.55	15.00
	9:40:00	18.61	14.98
	9:50:00	18.68	14.86
	10:00:00	18.79	14.63
	10:10:00	18.81	14.64
	10:20:00	18.90	14.58
	10:30:00	18.91	14.82
	10:40:00	18.94	14.74
	10:50:00	19.14	14.51
	11:00:00	19.27	14.59
	11:10:00	19.42	14.65
	11:20:00	19.64	14.58
	11:30:00	19.85	14.65
	11:40:00	19.97	14.68
	11:50:00	20.23	14.30
	12:00:00	20.08	14.38
	12:10:00	20.26	14.35

6/29/2009	12:20:00	20.27	14.68
	12:30:00	20.03	14.68
	12:40:00	18.66	14.16
	12:50:00	18.26	14.19
	13:00:00	18.35	14.69
	13:10:00	18.57	14.38
	13:20:00	18.70	14.55
	13:30:00	18.93	14.16
	13:40:00	18.98	14.08
	13:50:00	19.16	14.08
	14:00:00	19.14	14.36
	14:10:00	19.07	14.22
	14:20:00	19.16	14.15
	14:30:00	19.13	14.13
	14:40:00	19.27	14.46
	14:50:00	19.25	14.42
	15:00:00	19.46	14.40
	15:10:00	19.55	14.41
	15:20:00	19.53	14.33
	15:30:00	19.43	14.09
	15:40:00	19.60	14.05
	15:50:00	19.64	14.24
	16:00:00	19.71	14.32
	16:10:00	19.81	14.13
	16:20:00	19.92	14.02
	16:30:00	20.00	14.04
	16:40:00	20.12	14.22
	16:50:00	20.25	14.10
	17:00:00	20.21	14.06
	17:10:00	20.16	14.12
	17:20:00	20.38	14.08
	17:30:00	20.44	14.04
	17:40:00	20.43	14.09
	17:50:00	20.46	13.95
	18:00:00	20.58	14.02
	18:10:00	20.69	14.00
	18:20:00	20.75	13.87
	18:30:00	20.67	13.84
	18:40:00	20.78	13.95
	18:50:00	20.86	13.91
	19:00:00	20.95	13.82
	19:10:00	21.08	13.78
	19:20:00	21.15	13.75
	19:30:00	21.21	13.71
	19:40:00	21.32	13.71
	19:50:00	21.36	13.68
	20:00:00	21.39	13.64
	20:10:00	21.41	13.60
	20:20:00	21.39	13.57
	20:30:00	21.36	13.51
	20:40:00	21.32	13.45
	20:50:00	21.28	13.39

6/29/2009	21:00:00	21.21	13.32
	21:10:00	21.15	13.25
	21:20:00	21.08	13.19
	21:30:00	21.06	13.14
	21:40:00	20.95	13.10
	21:50:00	20.94	13.07
	22:00:00	20.83	13.06
	22:10:00	20.78	13.06
	22:20:00	20.76	13.07
	22:30:00	20.64	13.07
	22:40:00	20.62	13.07
	22:50:00	20.53	13.06
	23:00:00	20.49	13.06
	23:10:00	20.47	13.06
	23:20:00	20.43	13.06
	23:30:00	20.39	13.05
	23:40:00	20.32	13.05
23:50:00	20.27	13.05	
6/30/2009	0:00:00	20.25	13.05
	0:10:00	20.25	13.05
	0:20:00	20.22	13.05
	0:30:00	20.18	13.04
	0:40:00	20.10	13.04
	0:50:00	20.08	13.05
	1:00:00	20.03	13.04
	1:10:00	19.95	13.04
	1:20:00	19.95	13.04
	1:30:00	19.88	13.04
	1:40:00	19.88	13.04
	1:50:00	19.90	13.03
	2:00:00	19.84	13.03
	2:10:00	19.79	13.03
	2:20:00	19.78	13.03
	2:30:00	19.75	13.02
	2:40:00	19.72	13.02
	2:50:00	19.67	13.01
	3:00:00	19.67	13.00
	3:10:00	19.63	13.01
	3:20:00	19.59	13.01
	3:30:00	19.56	13.00
	3:40:00	19.51	12.99
	3:50:00	19.50	12.99
4:00:00	19.42	12.98	
4:10:00	19.42	12.99	
4:20:00	19.36	12.98	
4:30:00	19.33	12.98	
4:40:00	19.30	12.97	
4:50:00	19.26	12.97	
5:00:00	19.22	12.97	
5:10:00	19.18	12.96	
5:20:00	19.16	12.96	
5:30:00	19.12	12.96	

6/30/2009	5:40:00	19.09	12.96
	5:50:00	19.05	12.97
	6:00:00	19.01	12.97
	6:10:00	18.98	12.99
	6:20:00	18.94	13.04
	6:30:00	18.95	13.06
	6:40:00	18.91	13.12
	6:50:00	18.90	13.15
	7:00:00	18.83	13.27
	7:10:00	18.85	13.49
	7:20:00	18.88	13.54
	7:30:00	18.84	13.05
	7:40:00	18.84	12.77
	7:50:00	18.82	12.94
	8:00:00	18.86	13.11
	8:10:00	18.83	13.37
	8:20:00	18.86	13.60
	8:30:00	18.90	14.02
	8:40:00	18.95	14.46
	8:50:00	18.97	13.95
	9:00:00	18.94	14.09
	9:10:00	18.94	14.13
	9:20:00	18.96	14.00
	9:30:00	18.98	14.10
	9:40:00	19.01	14.03
	9:50:00	19.07	14.20
	10:00:00	19.09	15.00
	10:10:00	19.79	15.00
	10:20:00	20.24	15.00
	10:30:00	20.39	15.00
	10:40:00	19.50	14.63
	10:50:00	19.69	14.57
	11:00:00	19.75	14.70
	11:10:00	19.86	14.48
	11:20:00	19.95	14.50
	11:30:00	19.95	14.30
	11:40:00	19.92	14.19
	11:50:00	19.92	14.17
	12:00:00	20.05	14.56
	12:10:00	20.12	14.45
	12:20:00	20.10	14.39
	12:30:00	20.21	14.75
	12:40:00	20.29	14.47
	12:50:00	20.43	14.42
	13:00:00	20.48	14.49
	13:10:00	20.56	14.44
	13:20:00	20.56	14.33
	13:30:00	20.60	14.31
	13:40:00	20.73	14.73
	13:50:00	20.78	14.21
	14:00:00	20.88	14.44
	14:10:00	20.95	14.43

6/30/2009	14:20:00	21.06	14.56
	14:30:00	21.34	14.75
	14:40:00	21.28	14.41
	14:50:00	21.08	14.26
	15:00:00	20.82	14.24
	15:10:00	20.34	14.28
	15:20:00	18.85	14.33
	15:30:00	18.50	14.62
	15:40:00	18.66	14.43
	15:50:00	18.74	14.55
	16:00:00	18.74	14.23
	16:10:00	18.85	14.32
	16:20:00	18.81	14.16
	16:30:00	18.83	14.25
	16:40:00	18.83	14.19
	16:50:00	18.77	14.22
	17:00:00	18.77	14.30
	17:10:00	18.79	14.23
	17:20:00	18.81	14.30
	17:30:00	19.03	14.22
	17:40:00	18.94	14.07
	17:50:00	18.96	14.12
	18:00:00	19.01	14.08
	18:10:00	19.14	14.14
	18:20:00	19.16	14.01
	18:30:00	19.16	14.12
	18:40:00	19.20	14.17
	18:50:00	19.29	14.13
	19:00:00	19.27	14.02
	19:10:00	19.25	13.96
	19:20:00	19.31	13.97
	19:30:00	19.27	13.99
	19:40:00	19.29	14.02
	19:50:00	19.31	13.93
	20:00:00	19.29	13.84
	20:10:00	19.27	13.79
	20:20:00	19.27	13.72
	20:30:00	19.31	13.65
	20:40:00	19.29	13.59
	20:50:00	19.36	13.52
	21:00:00	19.40	13.45
	21:10:00	19.44	13.37
	21:20:00	19.49	13.31
	21:30:00	19.51	13.25
	21:40:00	19.46	13.19
	21:50:00	19.53	13.14
	22:00:00	19.49	13.10
	22:10:00	19.53	13.08
	22:20:00	19.51	13.06
	22:30:00	19.51	13.07
	22:40:00	19.50	13.08
	22:50:00	19.48	13.08

Permit No. GA1992S009(07)

Temp Sensor/Recorder Data June 01, 2009 - July 01 2009

6/30/2009	23:00:00	19.40	13.09
	23:10:00	19.45	13.09
	23:20:00	19.41	13.09
	23:30:00	19.38	13.09
	23:40:00	19.33	13.08
	23:50:00	19.27	13.08
7/1/2009	0:00:00	19.25	13.08



8200 DATA FROM: DATE: 07/01/2009 to 07/31/2009

<u>DATE</u>	<u>TIME</u>	<u>WaterTemp</u>	<u>Battery</u>
07/01/2009	00:00:00	19.25	13.08
	00:10:00	19.22	13.08
	00:20:00	19.20	13.08
	00:30:00	19.18	13.08
	00:40:00	19.14	13.08
	00:50:00	19.13	13.07
	01:00:00	19.07	13.07
	01:10:00	19.02	13.07
	01:20:00	18.97	13.07
	01:30:00	18.96	13.07
	01:40:00	18.97	13.07
	01:50:00	18.91	13.06
	02:00:00	18.92	13.06
	02:10:00	18.85	13.06
	02:20:00	18.81	13.06
	02:30:00	18.81	13.05
	02:40:00	18.74	13.05
	02:50:00	18.72	13.05
	03:00:00	18.72	13.04
	03:10:00	18.70	13.04
	03:20:00	18.66	13.04
	03:30:00	18.70	13.03
	03:40:00	18.65	13.03
	03:50:00	18.60	13.03
	04:00:00	18.61	13.03
	04:10:00	18.57	13.02
	04:20:00	18.55	13.01
	04:30:00	18.54	13.02
	04:40:00	18.50	13.01
	04:50:00	18.42	13.00
	05:00:00	18.42	13.00
	05:10:00	18.38	13.00
	05:20:00	18.34	13.00
	05:30:00	18.29	12.99
	05:40:00	18.26	12.98
	05:50:00	18.26	12.97
	06:00:00	18.20	12.99
	06:10:00	18.20	13.00
	06:20:00	18.13	13.01
	06:30:00	18.14	13.03
	06:40:00	18.10	13.06
	06:50:00	18.10	13.12
	07:00:00	18.01	13.35
	07:10:00	18.02	13.48
	07:20:00	18.01	13.77
	07:30:00	18.03	14.02
	07:40:00	18.03	13.84

07:50:00	18.02	14.08
08:00:00	18.01	14.13
08:10:00	18.01	14.30
08:20:00	18.01	14.56
08:30:00	18.01	14.83
08:40:00	18.07	14.75
08:50:00	18.12	14.82
09:00:00	18.14	14.85
09:10:00	18.15	14.95
09:20:00	18.26	14.34
09:30:00	18.31	14.69
09:40:00	18.35	14.74
09:50:00	18.39	14.60
10:00:00	18.46	14.75
10:10:00	18.53	14.80
10:20:00	18.61	14.62
10:30:00	18.77	14.68
10:40:00	18.90	14.69
10:50:00	19.03	14.62
11:00:00	19.16	14.84
11:10:00	19.29	14.82
11:20:00	19.44	14.50
11:30:00	19.49	14.39
11:40:00	19.53	14.43
11:50:00	19.62	14.53
12:00:00	19.75	14.40
12:10:00	19.84	14.47
12:20:00	19.92	14.28
12:30:00	19.95	14.34
12:40:00	20.15	14.46
12:50:00	20.14	14.37
13:00:00	20.22	15.00
13:10:00	20.53	14.81
13:20:00	20.70	14.33
13:30:00	20.70	13.95
13:40:00	20.69	14.19
13:50:00	20.78	14.50
14:00:00	21.08	14.35
14:10:00	21.15	14.31
14:20:00	21.30	14.38
14:30:00	21.45	14.58
14:40:00	21.67	14.63
14:50:00	21.85	14.31
15:00:00	22.04	14.34
15:10:00	22.06	14.17
15:20:00	22.09	14.19
15:30:00	22.11	14.13
15:40:00	22.04	14.06
15:50:00	22.00	14.17
16:00:00	22.13	14.32
16:10:00	22.24	14.19

16:20:00	22.28	14.13
16:30:00	22.28	13.97
16:40:00	22.26	13.84
16:50:00	22.22	13.75
17:00:00	22.22	13.78
17:10:00	22.24	13.82
17:20:00	22.18	13.74
17:30:00	22.14	13.79
17:40:00	22.10	13.80
17:50:00	22.06	13.76
18:00:00	21.95	13.86
18:10:00	21.89	13.91
18:20:00	21.80	13.98
18:30:00	21.74	13.98
18:40:00	21.69	13.94
18:50:00	21.61	13.89
19:00:00	21.53	13.89
19:10:00	21.46	13.88
19:20:00	21.38	13.86
19:30:00	21.34	13.87
19:40:00	21.22	13.85
19:50:00	21.15	13.83
20:00:00	21.04	13.84
20:10:00	20.95	13.85
20:20:00	20.85	13.81
20:30:00	20.79	13.73
20:40:00	20.72	13.64
20:50:00	20.57	13.56
21:00:00	20.53	13.49
21:10:00	20.40	13.41
21:20:00	20.36	13.35
21:30:00	20.28	13.29
21:40:00	20.20	13.23
21:50:00	20.10	13.17
22:00:00	20.01	13.12
22:10:00	19.95	13.08
22:20:00	19.90	13.04
22:30:00	19.84	13.05
22:40:00	19.77	13.05
22:50:00	19.68	13.06
23:00:00	19.64	13.07
23:10:00	19.60	13.07
23:20:00	19.55	13.07
23:30:00	19.51	13.07
23:40:00	19.48	13.07
23:50:00	19.42	13.07
07/02/2009 00:00:00	19.40	13.06
00:10:00	19.33	13.07
00:20:00	19.31	13.06
00:30:00	19.27	13.07
00:40:00	19.27	13.06

00:50:00	19.20	13.06
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02:40:00	18.95	13.03
02:50:00	18.94	13.04
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03:30:00	18.79	13.03
03:40:00	18.79	13.02
03:50:00	18.77	13.02
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09:10:00	18.38	14.53

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10:50:00	18.68	14.71
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11:10:00	18.81	14.78
11:20:00	18.90	14.56
11:30:00	18.94	14.48
11:40:00	18.94	14.38
11:50:00	18.90	14.39
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12:10:00	18.95	14.55
12:20:00	19.05	14.79
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13:10:00	20.25	15.00
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13:30:00	19.63	14.28
13:40:00	19.73	14.59
13:50:00	19.72	14.38
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14:30:00	19.77	14.74
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15:50:00	20.09	14.60
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16:50:00	19.99	14.14
17:00:00	19.99	14.36
17:10:00	19.92	14.50
17:20:00	19.92	14.34
17:30:00	19.91	14.41
17:40:00	19.91	14.47

17:50:00	19.89	14.43
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18:30:00	19.76	14.32
18:40:00	19.74	14.18
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22:30:00	18.54	13.06
22:40:00	18.47	13.05
22:50:00	18.49	13.06
23:00:00	18.39	13.07
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23:20:00	18.36	13.08
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10:30:00	17.63	14.61
10:40:00	17.63	14.66

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11:20:00	17.73	14.86
11:30:00	17.78	14.65
11:40:00	17.84	14.51
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13:00:00	17.94	14.53
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13:20:00	17.38	14.60
13:30:00	16.47	14.54
13:40:00	16.67	14.51
13:50:00	16.93	14.54
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07:30:00	17.24	13.61
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15:30:00	18.92	14.22
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18:50:00	19.76	13.95
19:00:00	19.83	13.93
19:10:00	19.83	13.89
19:20:00	19.87	13.85
19:30:00	19.88	13.80
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06:30:00	17.83	13.02
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07:20:00	17.75	13.69
07:30:00	17.76	13.77
07:40:00	17.72	13.89
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19:10:00	21.23	14.08
19:20:00	21.18	14.00
19:30:00	21.04	13.91
19:40:00	20.93	13.85
19:50:00	20.91	13.80
20:00:00	20.84	13.75
20:10:00	20.78	13.72
20:20:00	20.71	13.69
20:30:00	20.58	13.65
20:40:00	20.53	13.59
20:50:00	20.43	13.51
21:00:00	20.29	13.44
21:10:00	20.19	13.37
21:20:00	20.05	13.30
21:30:00	19.99	13.24
21:40:00	19.88	13.19
21:50:00	19.84	13.14
22:00:00	19.73	13.10
22:10:00	19.64	13.08

	22:20:00	19.53	13.07
	22:30:00	19.44	13.08
	22:40:00	19.33	13.08
	22:50:00	19.27	13.09
	23:00:00	19.20	13.09
	23:10:00	19.09	13.09
	23:20:00	19.01	13.09
	23:30:00	18.92	13.08
	23:40:00	18.85	13.08
	23:50:00	18.79	13.08
07/06/2009	00:00:00	18.74	13.07
	00:10:00	18.61	13.07
	00:20:00	18.59	13.07
	00:30:00	18.53	13.06
	00:40:00	18.44	13.07
	00:50:00	18.45	13.06
	01:00:00	18.35	13.06
	01:10:00	18.35	13.06
	01:20:00	18.30	13.06
	01:30:00	18.24	13.05
	01:40:00	18.25	13.05
	01:50:00	18.15	13.05
	02:00:00	18.11	13.05
	02:10:00	18.10	13.04
	02:20:00	18.02	13.04
	02:30:00	18.00	13.04
	02:40:00	17.94	13.04
	02:50:00	17.91	13.03
	03:00:00	17.88	13.03
	03:10:00	17.82	13.03
	03:20:00	17.74	13.02
	03:30:00	17.72	13.02
	03:40:00	17.69	13.01
	03:50:00	17.61	13.01
	04:00:00	17.56	13.01
	04:10:00	17.53	13.00
	04:20:00	17.46	13.00
	04:30:00	17.44	12.99
	04:40:00	17.36	12.99
	04:50:00	17.36	12.99
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	05:10:00	17.29	12.98
	05:20:00	17.24	12.97
	05:30:00	17.22	12.95
	05:40:00	17.20	12.96
	05:50:00	17.13	12.96
	06:00:00	17.08	12.96
	06:10:00	17.02	12.97
	06:20:00	17.02	12.99
	06:30:00	16.96	13.02
	06:40:00	16.89	13.08

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07:20:00	16.78	13.68
07:30:00	16.79	13.87
07:40:00	16.76	14.10
07:50:00	16.75	15.00
08:00:00	16.66	15.00
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09:00:00	16.49	15.00
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09:20:00	17.01	15.00
09:30:00	17.15	14.93
09:40:00	17.23	14.89
09:50:00	17.35	14.86
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10:10:00	17.56	14.65
10:20:00	17.78	14.65
10:30:00	17.89	14.63
10:40:00	18.02	14.60
10:50:00	18.20	14.60
11:00:00	18.33	14.56
11:10:00	18.41	14.63
11:20:00	18.71	14.65
11:30:00	18.82	14.56
11:40:00	19.02	14.59
11:50:00	19.22	14.35
12:00:00	19.42	14.31
12:10:00	19.68	14.27
12:20:00	19.88	14.31
12:30:00	20.12	14.09
12:40:00	20.34	14.06
12:50:00	20.29	14.51
13:00:00	20.14	13.99
13:10:00	20.37	14.44
13:20:00	20.20	14.45
13:30:00	19.37	13.89
13:40:00	18.44	14.18
13:50:00	18.77	14.39
14:00:00	19.09	14.37
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14:30:00	19.68	14.13
14:40:00	19.84	14.32
14:50:00	20.04	14.28
15:00:00	20.08	14.31
15:10:00	20.08	14.28



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15:30:00	20.00	14.30
15:40:00	20.05	13.96
15:50:00	20.08	13.88
16:00:00	20.05	14.29
16:10:00	20.34	14.13
16:20:00	20.46	14.18
16:30:00	20.67	14.19
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16:50:00	20.84	14.03
17:00:00	20.84	13.98
17:10:00	21.06	14.12
17:20:00	21.04	13.94
17:30:00	21.02	13.90
17:40:00	21.06	13.96
17:50:00	21.10	14.02
18:00:00	21.15	13.95
18:10:00	21.15	13.97
18:20:00	21.23	13.97
18:30:00	21.26	13.98
18:40:00	21.26	14.01
18:50:00	21.26	13.94
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19:10:00	21.29	13.94
19:20:00	21.30	13.95
19:30:00	21.26	13.90
19:40:00	21.19	13.85
19:50:00	21.18	13.81
20:00:00	21.19	13.82
20:10:00	21.15	13.78
20:20:00	21.12	13.72
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20:40:00	21.08	13.61
20:50:00	21.04	13.54
21:00:00	21.05	13.46
21:10:00	20.97	13.38
21:20:00	20.93	13.32
21:30:00	20.88	13.25
21:40:00	20.86	13.20
21:50:00	20.78	13.14
22:00:00	20.75	13.10
22:10:00	20.64	13.07
22:20:00	20.56	13.05
22:30:00	20.49	13.04
22:40:00	20.40	13.05
22:50:00	20.34	13.05
23:00:00	20.27	13.05
23:10:00	20.19	13.05
23:20:00	20.12	13.05
23:30:00	20.01	13.05
23:40:00	19.92	13.04

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07/07/2009 00:00:00	19.78	13.04
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01:00:00	19.31	13.03
01:10:00	19.20	13.02
01:20:00	19.18	13.02
01:30:00	19.07	13.02
01:40:00	19.02	13.02
01:50:00	18.96	13.02
02:00:00	18.85	13.02
02:10:00	18.81	13.01
02:20:00	18.77	13.01
02:30:00	18.70	13.01
02:40:00	18.61	13.01
02:50:00	18.60	13.00
03:00:00	18.50	13.00
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03:20:00	18.42	12.99
03:30:00	18.41	12.98
03:40:00	18.36	12.99
03:50:00	18.31	12.98
04:00:00	18.24	12.98
04:10:00	18.15	12.98
04:20:00	18.18	12.96
04:30:00	18.12	12.96
04:40:00	18.05	12.97
04:50:00	17.95	12.96
05:00:00	17.89	12.95
05:10:00	17.79	12.96
05:20:00	17.76	12.95
05:30:00	17.72	12.94
05:40:00	17.64	12.95
05:50:00	17.64	12.94
06:00:00	17.55	12.96
06:10:00	17.49	12.98
06:20:00	17.42	13.01
06:30:00	17.38	13.06
06:40:00	17.34	13.14
06:50:00	17.30	13.13
07:00:00	17.26	13.33
07:10:00	17.27	13.46
07:20:00	17.22	13.58
07:30:00	17.22	13.68
07:40:00	17.18	13.76
07:50:00	17.19	13.84
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08:10:00	17.19	14.47

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08:30:00	18.22	15.00
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09:40:00	17.73	14.84
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10:20:00	18.12	14.72
10:30:00	18.19	14.71
10:40:00	18.43	14.76
10:50:00	18.57	14.66
11:00:00	18.80	14.63
11:10:00	18.98	14.85
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12:00:00	20.02	14.67
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12:30:00	20.23	14.30
12:40:00	20.38	14.88
12:50:00	20.45	14.16
13:00:00	20.45	14.00
13:10:00	20.49	14.14
13:20:00	20.62	14.60
13:30:00	20.75	14.28
13:40:00	20.84	14.60
13:50:00	21.08	14.61
14:00:00	21.26	14.51
14:10:00	21.34	14.41
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14:40:00	21.70	14.34
14:50:00	21.91	14.14
15:00:00	21.98	14.42
15:10:00	22.33	14.38
15:20:00	22.37	14.02
15:30:00	22.68	14.43
15:40:00	22.65	14.10
15:50:00	23.05	14.44
16:00:00	23.33	14.39
16:10:00	23.48	14.17
16:20:00	23.55	14.17
16:30:00	23.61	14.13
16:40:00	23.57	14.03

16:50:00	23.81	14.11
17:00:00	23.72	14.06
17:10:00	23.94	14.18
17:20:00	24.12	14.07
17:30:00	24.16	14.05
17:40:00	24.12	13.95
17:50:00	24.14	13.96
18:00:00	24.07	13.95
18:10:00	24.07	13.88
18:20:00	24.05	13.87
18:30:00	24.01	13.86
18:40:00	23.94	13.84
18:50:00	23.88	13.84
19:00:00	23.79	13.87
19:10:00	23.68	13.87
19:20:00	23.66	13.97
19:30:00	23.57	13.97
19:40:00	23.44	13.88
19:50:00	23.31	13.80
20:00:00	23.16	13.83
20:10:00	22.98	13.83
20:20:00	22.81	13.74
20:30:00	22.63	13.68
20:40:00	22.43	13.60
20:50:00	22.30	13.52
21:00:00	22.11	13.44
21:10:00	21.93	13.36
21:20:00	21.80	13.29
21:30:00	21.71	13.23
21:40:00	21.56	13.18
21:50:00	21.43	13.12
22:00:00	21.30	13.08
22:10:00	21.17	13.07
22:20:00	21.02	13.06
22:30:00	20.87	13.07
22:40:00	20.79	13.07
22:50:00	20.63	13.07
23:00:00	20.53	13.07
23:10:00	20.43	13.06
23:20:00	20.32	13.04
23:30:00	20.19	13.05
23:40:00	20.05	13.04
23:50:00	19.97	13.04
07/08/2009 00:00:00	19.86	13.04
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01:10:00	19.16	13.03

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02:30:00	18.42	13.00
02:40:00	18.32	13.00
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04:00:00	17.77	12.96
04:10:00	17.69	12.96
04:20:00	17.62	12.95
04:30:00	17.60	12.95
04:40:00	17.51	12.94
04:50:00	17.44	12.95
05:00:00	17.42	12.94
05:10:00	17.32	12.93
05:20:00	17.29	12.92
05:30:00	17.26	12.92
05:40:00	17.17	12.92
05:50:00	17.10	12.92
06:00:00	17.03	12.92
06:10:00	17.00	12.95
06:20:00	16.96	12.99
06:30:00	16.92	13.06
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07:10:00	16.75	13.44
07:20:00	16.70	13.59
07:30:00	16.66	13.69
07:40:00	16.64	13.75
07:50:00	16.61	13.89
08:00:00	16.61	13.98
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08:20:00	17.42	15.00
08:30:00	17.72	15.00
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09:00:00	16.63	15.00
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09:20:00	17.08	14.81
09:30:00	17.01	15.00
09:40:00	17.29	14.64

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10:50:00	18.22	14.63
11:00:00	18.31	14.61
11:10:00	18.53	14.56
11:20:00	18.66	14.53
11:30:00	18.83	14.65
11:40:00	19.03	14.60
11:50:00	19.29	14.57
12:00:00	19.51	14.56
12:10:00	19.73	14.55
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12:30:00	20.27	14.37
12:40:00	20.56	14.47
12:50:00	20.78	14.44
13:00:00	21.04	14.41
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13:30:00	21.39	14.41
13:40:00	21.52	13.85
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14:00:00	22.06	14.41
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14:30:00	22.68	13.97
14:40:00	22.98	14.36
14:50:00	23.24	14.33
15:00:00	23.48	14.32
15:10:00	23.57	13.90
15:20:00	23.90	14.34
15:30:00	24.01	14.16
15:40:00	24.36	14.19
15:50:00	24.42	13.93
16:00:00	24.42	13.89
16:10:00	24.68	14.14
16:20:00	24.84	14.02
16:30:00	24.92	14.15
16:40:00	25.01	13.94
16:50:00	24.84	13.88
17:00:00	24.90	13.90
17:10:00	24.98	13.94
17:20:00	25.00	13.99
17:30:00	25.23	14.09
17:40:00	25.26	13.98
17:50:00	25.10	13.87
18:00:00	25.08	13.88
18:10:00	25.00	13.83

18:20:00	24.95	13.81
18:30:00	24.96	13.81
18:40:00	24.95	13.82
18:50:00	24.84	13.82
19:00:00	24.75	13.83
19:10:00	24.60	13.81
19:20:00	24.37	13.79
19:30:00	24.18	13.76
19:40:00	24.03	13.75
19:50:00	23.81	13.73
20:00:00	23.68	13.71
20:10:00	23.51	13.68
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20:30:00	23.07	13.60
20:40:00	22.89	13.54
20:50:00	22.70	13.47
21:00:00	22.48	13.40
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21:20:00	22.11	13.28
21:30:00	21.87	13.22
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21:50:00	21.55	13.12
22:00:00	21.36	13.07
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22:20:00	21.06	13.03
22:30:00	20.94	13.03
22:40:00	20.81	13.03
22:50:00	20.60	13.03
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23:20:00	20.14	13.02
23:30:00	20.03	13.02
23:40:00	19.88	13.01
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07/09/2009 00:00:00	19.64	13.01
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00:50:00	19.10	13.01
01:00:00	18.97	13.00
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01:20:00	18.74	13.00
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01:50:00	18.50	13.00
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02:10:00	18.34	12.99
02:20:00	18.30	12.98
02:30:00	18.19	12.99
02:40:00	18.11	12.98

02:50:00	18.06	12.98
03:00:00	17.98	12.97
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03:20:00	17.87	12.97
03:30:00	17.83	12.96
03:40:00	17.72	12.96
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04:50:00	17.36	12.94
05:00:00	17.26	12.93
05:10:00	17.26	12.92
05:20:00	17.18	12.93
05:30:00	17.13	12.92
05:40:00	17.10	12.92
05:50:00	17.05	12.93
06:00:00	16.99	12.93
06:10:00	16.94	12.95
06:20:00	16.90	13.00
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07:20:00	16.80	13.88
07:30:00	16.80	13.75
07:40:00	16.75	13.88
07:50:00	16.76	14.08
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08:10:00	16.68	15.00
08:20:00	17.99	15.00
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08:50:00	17.12	15.00
09:00:00	17.25	14.83
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09:40:00	17.67	15.00
09:50:00	17.85	14.76
10:00:00	17.98	14.84
10:10:00	18.15	14.76
10:20:00	18.35	14.82
10:30:00	18.53	14.69
10:40:00	18.68	14.80
10:50:00	18.88	14.73
11:00:00	19.03	14.76
11:10:00	19.16	14.50



11:20:00	19.29	14.55
11:30:00	19.36	14.33
11:40:00	19.42	14.33
11:50:00	19.49	14.40
12:00:00	19.55	14.39
12:10:00	19.57	14.29
12:20:00	19.60	14.18
12:30:00	19.68	14.42
12:40:00	19.75	14.45
12:50:00	19.74	14.27
13:00:00	19.74	14.18
13:10:00	19.84	14.22
13:20:00	19.84	14.26
13:30:00	19.88	14.41
13:40:00	20.00	14.35
13:50:00	20.05	14.27
14:00:00	20.13	14.27
14:10:00	20.18	14.42
14:20:00	20.27	14.36
14:30:00	20.29	14.33
14:40:00	20.43	14.57
14:50:00	20.51	14.40
15:00:00	20.62	14.36
15:10:00	20.73	14.54
15:20:00	20.80	14.42
15:30:00	20.84	14.33
15:40:00	20.91	14.37
15:50:00	20.99	14.35
16:00:00	21.02	14.49
16:10:00	21.19	14.44
16:20:00	21.34	14.43
16:30:00	21.56	14.64
16:40:00	21.69	14.33
16:50:00	21.71	14.25
17:00:00	21.78	14.36
17:10:00	21.91	14.31
17:20:00	22.04	14.35
17:30:00	22.11	14.18
17:40:00	22.14	14.14
17:50:00	22.17	14.13
18:00:00	22.11	14.12
18:10:00	22.09	14.14
18:20:00	22.26	14.23
18:30:00	22.33	14.19
18:40:00	22.36	14.07
18:50:00	22.35	14.01
19:00:00	22.37	14.02
19:10:00	22.28	13.99
19:20:00	22.18	13.91
19:30:00	22.06	13.84
19:40:00	22.00	13.80

19:50:00	21.90	13.77
20:00:00	21.83	13.72
20:10:00	21.78	13.68
20:20:00	21.65	13.63
20:30:00	21.52	13.58
20:40:00	21.43	13.51
20:50:00	21.32	13.44
21:00:00	21.17	13.37
21:10:00	21.04	13.31
21:20:00	20.93	13.25
21:30:00	20.82	13.18
21:40:00	20.67	13.13
21:50:00	20.58	13.09
22:00:00	20.47	13.07
22:10:00	20.36	13.06
22:20:00	20.25	13.06
22:30:00	20.16	13.07
22:40:00	20.03	13.07
22:50:00	19.97	13.07
23:00:00	19.88	13.06
23:10:00	19.77	13.06
23:20:00	19.71	13.06
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23:40:00	19.55	13.05
23:50:00	19.42	13.05
07/10/2009 00:00:00	19.36	13.05
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01:30:00	18.57	13.02
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03:20:00	17.74	12.98
03:30:00	17.67	12.96
03:40:00	17.62	12.97
03:50:00	17.50	12.95
04:00:00	17.46	12.95
04:10:00	17.44	12.95

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04:30:00	17.31	12.94
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04:50:00	17.16	12.92
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05:20:00	16.98	12.91
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05:40:00	16.94	12.91
05:50:00	16.89	12.92
06:00:00	16.88	12.92
06:10:00	16.81	12.93
06:20:00	16.79	12.97
06:30:00	16.78	13.04
06:40:00	16.75	13.16
06:50:00	16.75	13.31
07:00:00	16.72	13.36
07:10:00	16.69	13.52
07:20:00	16.68	13.69
07:30:00	16.68	13.88
07:40:00	16.70	13.83
07:50:00	16.69	14.09
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08:10:00	16.71	14.37
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08:40:00	16.87	15.00
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09:10:00	17.12	14.80
09:20:00	17.18	14.74
09:30:00	17.25	14.77
09:40:00	18.02	15.00
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10:20:00	18.05	14.71
10:30:00	18.29	14.70
10:40:00	18.46	14.66
10:50:00	18.66	14.67
11:00:00	18.88	14.72
11:10:00	19.22	14.71
11:20:00	19.44	14.58
11:30:00	19.68	14.68
11:40:00	19.97	14.65
11:50:00	20.02	14.61
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12:10:00	20.21	14.56
12:20:00	20.32	14.55
12:30:00	20.73	14.43
12:40:00	20.90	14.50

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13:10:00	20.76	13.93
13:20:00	20.34	14.47
13:30:00	19.16	14.45
13:40:00	18.98	14.38
13:50:00	19.53	14.43
14:00:00	19.75	14.14
14:10:00	19.84	13.94
14:20:00	19.84	14.02
14:30:00	19.86	14.23
14:40:00	19.99	14.05
14:50:00	20.05	14.54
15:00:00	20.16	14.46
15:10:00	20.38	14.37
15:20:00	20.45	14.34
15:30:00	20.53	14.31
15:40:00	20.67	14.21
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16:00:00	20.82	13.97
16:10:00	20.80	13.93
16:20:00	20.88	14.03
16:30:00	20.88	13.88
16:40:00	21.02	13.94
16:50:00	21.10	13.97
17:00:00	21.08	13.99
17:10:00	21.17	14.06
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18:00:00	21.61	14.03
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18:30:00	21.43	13.90
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19:20:00	21.63	13.96
19:30:00	21.65	13.89
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19:50:00	21.65	13.84
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22:40:00	20.78	13.06
22:50:00	20.78	13.06
23:00:00	20.71	13.06
23:10:00	20.67	13.06
23:20:00	20.62	13.05
23:30:00	20.56	13.05
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07/11/2009 00:00:00	20.44	13.05
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04:40:00	18.97	12.96
04:50:00	18.90	12.96
05:00:00	18.83	12.95
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05:40:00	18.68	12.95

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06:20:00	18.50	12.99
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07:40:00	18.33	13.80
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09:20:00	18.88	14.44
09:30:00	18.76	15.00
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13:20:00	20.73	14.34
13:30:00	19.97	14.52
13:40:00	18.97	14.68
13:50:00	19.18	14.33
14:00:00	19.29	14.36
14:10:00	19.49	14.14

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14:30:00	19.71	14.44
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15:00:00	19.88	14.13
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15:20:00	20.08	14.56
15:30:00	20.19	14.30
15:40:00	20.22	14.49
15:50:00	20.43	14.21
16:00:00	20.53	14.39
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16:20:00	20.87	14.31
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19:40:00	21.89	13.86
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20:00:00	21.89	13.88
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05:50:00	20.14	12.98
06:00:00	20.08	12.98
06:10:00	20.05	13.00
06:20:00	20.05	13.03
06:30:00	20.05	13.06
06:40:00	20.05	12.80
06:50:00	19.98	13.00
07:00:00	19.96	13.16
07:10:00	19.93	13.36



07:20:00	19.93	13.57
07:30:00	19.95	13.61
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07:50:00	19.95	13.86
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08:20:00	19.97	14.15
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09:40:00	20.72	14.85
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11:50:00	21.83	14.33
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13:20:00	23.16	14.58
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13:50:00	23.44	14.58
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15:30:00	24.92	14.00
15:40:00	24.92	13.88

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16:30:00	25.34	13.91
16:40:00	25.47	13.98
16:50:00	25.41	13.96
17:00:00	25.36	14.08
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17:20:00	25.12	13.98
17:30:00	25.27	13.58
17:40:00	24.60	13.96
17:50:00	23.53	14.05
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18:30:00	19.80	14.07
18:40:00	19.61	14.02
18:50:00	19.49	14.01
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19:20:00	19.29	14.06
19:30:00	19.29	13.96
19:40:00	19.31	13.91
19:50:00	19.25	13.85
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21:50:00	19.07	13.10
22:00:00	19.05	13.07
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22:30:00	18.92	13.06
22:40:00	18.94	13.06
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05:20:00	18.12	12.99
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05:50:00	17.99	12.99
06:00:00	17.96	12.98
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06:20:00	17.90	13.02
06:30:00	17.88	13.07
06:40:00	17.84	13.13
06:50:00	17.84	12.80
07:00:00	17.79	13.03
07:10:00	17.75	13.17
07:20:00	17.77	13.27
07:30:00	17.77	13.42
07:40:00	17.77	13.56
07:50:00	17.76	13.76
08:00:00	17.76	13.81
08:10:00	17.79	13.86
08:20:00	18.24	15.00
08:30:00	18.72	15.00
08:40:00	18.84	15.00

08:50:00	18.56	15.00
09:00:00	18.09	15.00
09:10:00	18.21	15.00
09:20:00	18.46	14.72
09:30:00	18.59	15.00
09:40:00	18.77	15.00
09:50:00	18.92	14.88
10:00:00	19.05	14.82
10:10:00	19.22	14.52
10:20:00	19.38	14.47
10:30:00	19.53	14.66
10:40:00	19.71	14.61
10:50:00	19.86	14.43
11:00:00	19.97	14.36
11:10:00	20.21	14.62
11:20:00	20.38	14.51
11:30:00	20.40	14.70
11:40:00	20.71	14.64
11:50:00	20.86	14.45
12:00:00	21.04	14.18
12:10:00	21.19	14.58
12:20:00	21.39	14.05
12:30:00	21.45	14.59
12:40:00	21.61	14.47
12:50:00	21.89	14.19
13:00:00	21.58	14.52
13:10:00	21.56	14.26
13:20:00	21.30	14.22
13:30:00	19.84	14.44
13:40:00	19.44	14.15
13:50:00	19.62	14.14
14:00:00	19.81	14.41
14:10:00	20.03	14.38
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14:30:00	20.19	14.33
14:40:00	20.19	14.30
14:50:00	20.27	14.30
15:00:00	20.23	14.01
15:10:00	20.11	13.92
15:20:00	20.22	14.33
15:30:00	20.29	14.27
15:40:00	20.38	14.25
15:50:00	20.47	14.02
16:00:00	20.53	14.23
16:10:00	20.71	14.16
16:20:00	20.93	14.15
16:30:00	20.86	14.14
16:40:00	20.93	13.90
16:50:00	21.09	13.85
17:00:00	21.34	14.09
17:10:00	21.32	13.85

17:20:00	21.39	14.06
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17:40:00	21.76	13.91
17:50:00	21.67	13.86
18:00:00	21.87	13.85
18:10:00	21.91	13.82
18:20:00	21.95	13.91
18:30:00	21.98	13.86
18:40:00	21.91	13.80
18:50:00	21.89	13.76
19:00:00	21.82	13.73
19:10:00	21.82	13.75
19:20:00	21.87	13.74
19:30:00	21.76	13.73
19:40:00	21.71	13.69
19:50:00	21.61	13.65
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20:10:00	21.52	13.59
20:20:00	21.43	13.55
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20:40:00	21.23	13.44
20:50:00	21.15	13.37
21:00:00	20.97	13.30
21:10:00	20.93	13.24
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21:40:00	20.62	13.09
21:50:00	20.45	13.06
22:00:00	20.40	13.04
22:10:00	20.29	13.04
22:20:00	20.23	13.05
22:30:00	20.16	13.05
22:40:00	20.10	13.05
22:50:00	20.03	13.05
23:00:00	19.95	13.05
23:10:00	19.88	13.04
23:20:00	19.84	13.04
23:30:00	19.78	13.03
23:40:00	19.72	13.04
23:50:00	19.59	13.03
07/14/2009 00:00:00	19.53	13.02
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00:20:00	19.39	13.03
00:30:00	19.32	13.02
00:40:00	19.24	13.02
00:50:00	19.17	13.02
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01:20:00	18.92	13.01
01:30:00	18.88	13.01
01:40:00	18.77	13.01

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03:20:00	17.97	12.97
03:30:00	17.85	12.98
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03:50:00	17.73	12.98
04:00:00	17.69	12.97
04:10:00	17.56	12.97
04:20:00	17.55	12.97
04:30:00	17.43	12.96
04:40:00	17.39	12.95
04:50:00	17.36	12.96
05:00:00	17.29	12.95
05:10:00	17.17	12.95
05:20:00	17.10	12.95
05:30:00	17.04	12.94
05:40:00	16.94	12.94
05:50:00	16.93	12.94
06:00:00	16.82	12.94
06:10:00	16.73	12.95
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06:30:00	16.60	13.04
06:40:00	16.57	12.64
06:50:00	16.47	12.95
07:00:00	16.45	13.07
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07:20:00	16.33	13.32
07:30:00	16.25	13.52
07:40:00	16.33	13.68
07:50:00	16.24	13.96
08:00:00	16.22	13.98
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08:40:00	17.31	15.00
08:50:00	17.01	15.00
09:00:00	16.68	15.00
09:10:00	16.55	15.00
09:20:00	16.54	15.00
09:30:00	16.61	15.00
09:40:00	17.01	15.00
09:50:00	17.10	14.97
10:00:00	17.29	14.91
10:10:00	17.44	14.84

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10:30:00	17.79	14.67
10:40:00	17.95	14.66
10:50:00	18.15	14.64
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11:10:00	18.48	14.61
11:20:00	18.70	14.71
11:30:00	18.90	14.39
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12:10:00	19.64	14.53
12:20:00	19.84	14.51
12:30:00	20.05	14.52
12:40:00	20.29	14.45
12:50:00	20.49	14.16
13:00:00	20.69	14.45
13:10:00	20.71	14.35
13:20:00	20.99	14.25
13:30:00	21.26	14.30
13:40:00	21.41	14.36
13:50:00	21.71	14.39
14:00:00	21.89	14.20
14:10:00	22.09	14.21
14:20:00	22.29	14.15
14:30:00	22.28	14.02
14:40:00	22.37	14.21
14:50:00	22.50	14.25
15:00:00	22.85	14.37
15:10:00	23.07	14.32
15:20:00	23.18	14.28
15:30:00	23.44	14.25
15:40:00	23.66	14.19
15:50:00	23.70	14.15
16:00:00	23.82	14.23
16:10:00	23.98	14.14
16:20:00	24.01	14.04
16:30:00	24.13	14.10
16:40:00	24.41	14.20
16:50:00	24.37	14.05
17:00:00	24.40	14.09
17:10:00	24.62	14.10
17:20:00	24.66	13.97
17:30:00	24.68	14.00
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18:00:00	24.73	13.78
18:10:00	24.75	13.77
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18:30:00	24.77	13.73
18:40:00	24.75	13.71

18:50:00	24.75	13.69
19:00:00	24.77	13.68
19:10:00	24.68	13.66
19:20:00	24.62	13.65
19:30:00	24.44	13.60
19:40:00	24.36	13.58
19:50:00	24.27	13.58
20:00:00	24.18	13.58
20:10:00	24.05	13.54
20:20:00	23.92	13.50
20:30:00	23.81	13.45
20:40:00	23.66	13.39
20:50:00	23.51	13.33
21:00:00	23.35	13.27
21:10:00	23.16	13.21
21:20:00	23.00	13.15
21:30:00	22.83	13.10
21:40:00	22.66	13.07
21:50:00	22.52	13.04
22:00:00	22.28	13.04
22:10:00	22.19	13.04
22:20:00	22.01	13.05
22:30:00	21.88	13.05
22:40:00	21.69	13.04
22:50:00	21.56	13.05
23:00:00	21.45	13.04
23:10:00	21.26	13.04
23:20:00	21.17	13.04
23:30:00	21.07	13.04
23:40:00	20.84	13.03
23:50:00	20.75	13.03

07/15/2009 00:00:00 20.60 13.03

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01:50:00	19.32	13.01
02:00:00	19.26	13.01
02:10:00	19.15	13.00
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02:30:00	18.95	12.99
02:40:00	18.83	13.00
02:50:00	18.78	12.98
03:00:00	18.69	12.98
03:10:00	18.59	12.99



03:20:00	18.45	12.99
03:30:00	18.36	12.98
03:40:00	18.30	12.98
03:50:00	18.15	12.97
04:00:00	18.12	12.97
04:10:00	18.03	12.97
04:20:00	17.90	12.96
04:30:00	17.79	12.95
04:40:00	17.74	12.96
04:50:00	17.66	12.95
05:00:00	17.56	12.94
05:10:00	17.50	12.94
05:20:00	17.40	12.93
05:30:00	17.32	12.92
05:40:00	17.28	12.93
05:50:00	17.17	12.93
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06:10:00	17.05	12.95
06:20:00	16.94	12.98
06:30:00	16.92	13.04
06:40:00	16.88	13.13
06:50:00	16.86	13.28
07:00:00	16.77	13.47
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07:20:00	16.66	13.69
07:30:00	16.66	13.93
07:40:00	16.66	13.99
07:50:00	16.47	15.00
08:00:00	16.67	15.00
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09:00:00	16.77	14.76
09:10:00	16.83	15.00
09:20:00	17.99	15.00
09:30:00	17.30	14.86
09:40:00	17.43	14.34
09:50:00	17.46	14.76
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10:30:00	18.11	14.71
10:40:00	18.33	14.73
10:50:00	18.59	14.60
11:00:00	18.74	14.71
11:10:00	19.03	14.63
11:20:00	19.25	14.56
11:30:00	19.46	14.70
11:40:00	19.71	14.64

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12:20:00	20.73	14.64
12:30:00	20.97	14.34
12:40:00	21.10	14.29
12:50:00	21.21	14.62
13:00:00	21.52	14.42
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13:30:00	22.06	14.45
13:40:00	22.48	14.38
13:50:00	22.74	14.36
14:00:00	23.02	14.30
14:10:00	23.29	14.24
14:20:00	23.55	14.25
14:30:00	23.81	14.17
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14:50:00	24.23	14.24
15:00:00	24.36	14.15
15:10:00	24.55	14.22
15:20:00	24.73	14.12
15:30:00	24.98	14.24
15:40:00	25.16	14.22
15:50:00	25.40	14.19
16:00:00	25.44	14.05
16:10:00	25.43	14.04
16:20:00	25.93	14.10
16:30:00	25.60	13.82
16:40:00	23.96	13.94
16:50:00	22.11	13.94
17:00:00	21.69	13.93
17:10:00	21.58	14.04
17:20:00	21.50	13.99
17:30:00	21.41	13.96
17:40:00	21.39	13.95
17:50:00	21.33	13.93
18:00:00	21.18	13.98
18:10:00	21.36	14.00
18:20:00	21.25	13.97
18:30:00	21.36	13.95
18:40:00	21.32	13.98
18:50:00	21.30	13.91
19:00:00	21.28	13.90
19:10:00	21.31	13.88
19:20:00	21.28	13.80
19:30:00	21.25	13.70
19:40:00	21.23	13.64
19:50:00	21.21	13.60
20:00:00	21.18	13.56
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21:00:00	21.02	13.15
21:10:00	20.93	13.10
21:20:00	20.93	13.07
21:30:00	20.91	13.06
21:40:00	20.84	13.06
21:50:00	20.80	13.07
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22:20:00	20.67	13.07
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22:50:00	20.53	13.07
23:00:00	20.53	13.06
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23:20:00	20.40	13.06
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07/16/2009 00:00:00	20.29	13.05
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04:20:00	20.01	12.98
04:30:00	20.03	12.99
04:40:00	20.05	12.98

04:50:00	20.00	12.98
05:00:00	20.01	12.98
05:10:00	19.99	12.98
05:20:00	19.95	12.98
05:30:00	19.97	12.98
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06:10:00	19.90	12.99
06:20:00	19.90	13.00
06:30:00	19.88	13.04
06:40:00	19.88	13.10
06:50:00	19.92	13.09
07:00:00	19.90	13.28
07:10:00	19.88	13.41
07:20:00	19.90	13.55
07:30:00	19.88	13.54
07:40:00	19.90	13.66
07:50:00	19.96	13.81
08:00:00	19.97	13.86
08:10:00	19.99	13.89
08:20:00	20.01	13.97
08:30:00	20.08	14.35
08:40:00	20.12	14.30
08:50:00	19.87	15.00
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10:30:00	21.46	14.76
10:40:00	21.62	14.16
10:50:00	21.70	14.63
11:00:00	21.92	14.31
11:10:00	22.00	14.59
11:20:00	22.13	14.75
11:30:00	22.43	14.47
11:40:00	22.72	14.29
11:50:00	22.92	14.19
12:00:00	23.00	14.49
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12:20:00	23.29	14.44
12:30:00	23.44	14.55
12:40:00	23.57	14.28
12:50:00	23.85	14.10
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13:10:00	24.12	14.55

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13:30:00	24.51	14.44
13:40:00	24.66	14.12
13:50:00	24.73	14.26
14:00:00	24.97	14.38
14:10:00	25.19	14.17
14:20:00	25.36	14.34
14:30:00	25.27	14.35
14:40:00	25.30	14.32
14:50:00	25.08	14.01
15:00:00	23.57	14.27
15:10:00	21.89	14.26
15:20:00	21.52	14.23
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15:40:00	21.26	14.09
15:50:00	21.21	14.06
16:00:00	21.17	14.15
16:10:00	21.19	14.16
16:20:00	21.19	14.19
16:30:00	21.31	14.03
16:40:00	21.28	13.90
16:50:00	21.30	13.75
17:00:00	21.29	14.12
17:10:00	21.39	13.93
17:20:00	21.23	13.88
17:30:00	21.45	13.90
17:40:00	21.08	14.02
17:50:00	20.58	13.92
18:00:00	20.32	13.86
18:10:00	20.10	13.91
18:20:00	19.84	13.86
18:30:00	19.68	13.80
18:40:00	19.53	13.89
18:50:00	19.38	13.85
19:00:00	19.25	13.88
19:10:00	19.16	13.84
19:20:00	19.07	13.83
19:30:00	19.09	13.82
19:40:00	18.96	13.76
19:50:00	18.92	13.72
20:00:00	18.92	13.68
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21:40:00	18.83	13.10

21:50:00	18.83	13.07
22:00:00	18.83	13.05
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22:20:00	18.79	13.06
22:30:00	18.77	13.06
22:40:00	18.72	13.06
22:50:00	18.72	13.06
23:00:00	18.70	13.06
23:10:00	18.67	13.06
23:20:00	18.70	13.06
23:30:00	18.66	13.05
23:40:00	18.59	13.05
23:50:00	18.59	13.05
07/17/2009 00:00:00	18.57	13.05
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00:30:00	18.53	13.05
00:40:00	18.46	13.05
00:50:00	18.42	13.04
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01:20:00	18.33	13.04
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01:40:00	18.29	13.04
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02:00:00	18.24	13.03
02:10:00	18.22	13.03
02:20:00	18.21	13.03
02:30:00	18.19	13.02
02:40:00	18.20	13.02
02:50:00	18.18	13.02
03:00:00	18.22	13.02
03:10:00	18.21	13.01
03:20:00	18.22	13.01
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03:40:00	18.18	13.01
03:50:00	18.21	13.01
04:00:00	18.22	13.00
04:10:00	18.22	13.00
04:20:00	18.24	13.00
04:30:00	18.29	13.00
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04:50:00	18.29	12.98
05:00:00	18.29	12.99
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05:20:00	18.31	12.98
05:30:00	18.31	12.97
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05:50:00	18.36	12.97
06:00:00	18.36	12.98
06:10:00	18.31	12.97

06:20:00	18.31	12.99
06:30:00	18.29	13.03
06:40:00	18.32	13.10
06:50:00	18.32	13.21
07:00:00	18.32	13.32
07:10:00	18.32	13.44
07:20:00	18.36	13.60
07:30:00	18.38	13.71
07:40:00	18.41	13.78
07:50:00	18.39	13.89
08:00:00	18.44	14.10
08:10:00	18.50	14.14
08:20:00	18.54	15.00
08:30:00	18.54	15.00
08:40:00	18.42	15.00
08:50:00	18.58	15.00
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09:10:00	18.81	14.63
09:20:00	18.88	14.81
09:30:00	18.97	13.90
09:40:00	18.95	14.15
09:50:00	19.00	14.32
10:00:00	19.02	14.40
10:10:00	19.08	14.35
10:20:00	19.15	14.22
10:30:00	19.10	14.14
10:40:00	19.17	14.09
10:50:00	19.19	14.04
11:00:00	19.19	13.98
11:10:00	19.21	13.90
11:20:00	19.21	13.98
11:30:00	19.27	14.24
11:40:00	19.29	14.35
11:50:00	19.33	14.49
12:00:00	19.33	14.41
12:10:00	19.40	14.37
12:20:00	19.38	14.48
12:30:00	19.44	14.34
12:40:00	19.43	14.30
12:50:00	19.44	14.56
13:00:00	19.44	14.40
13:10:00	19.56	14.47
13:20:00	19.55	14.46
13:30:00	18.82	14.50
13:40:00	17.97	14.27
13:50:00	18.11	14.14
14:00:00	18.29	14.39
14:10:00	18.44	14.29
14:20:00	18.53	15.00
14:30:00	18.92	15.00
14:40:00	18.83	14.59

14:50:00	18.86	15.00
15:00:00	19.08	14.74
15:10:00	19.18	14.59
15:20:00	19.29	14.57
15:30:00	19.40	14.52
15:40:00	19.63	15.00
15:50:00	19.85	14.62
16:00:00	20.09	14.71
16:10:00	20.23	14.38
16:20:00	20.47	14.54
16:30:00	20.73	14.47
16:40:00	20.80	14.26
16:50:00	20.94	14.26
17:00:00	21.06	14.25
17:10:00	21.06	14.16
17:20:00	21.12	14.17
17:30:00	21.30	14.28
17:40:00	21.36	14.26
17:50:00	21.45	14.16
18:00:00	21.47	14.12
18:10:00	21.52	13.97
18:20:00	21.47	14.00
18:30:00	21.47	13.94
18:40:00	21.43	13.80
18:50:00	21.39	13.72
19:00:00	21.36	13.64
19:10:00	21.36	13.71
19:20:00	21.34	13.82
19:30:00	21.30	13.93
19:40:00	21.28	13.94
19:50:00	21.23	13.84
20:00:00	21.26	13.80
20:10:00	21.19	13.69
20:20:00	21.17	13.66
20:30:00	21.14	13.62
20:40:00	21.07	13.54
20:50:00	21.06	13.46
21:00:00	21.02	13.39
21:10:00	20.99	13.32
21:20:00	20.93	13.25
21:30:00	20.88	13.19
21:40:00	20.84	13.14
21:50:00	20.80	13.10
22:00:00	20.78	13.07
22:10:00	20.75	13.06
22:20:00	20.75	13.08
22:30:00	20.69	13.09
22:40:00	20.67	13.09
22:50:00	20.62	13.09
23:00:00	20.67	13.09
23:10:00	20.60	13.09



23:20:00	20.60	13.09
23:30:00	20.55	13.08
23:40:00	20.51	13.08
23:50:00	20.45	13.08
07/18/2009 00:00:00	20.44	13.08
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00:40:00	20.26	13.07
00:50:00	20.24	13.07
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01:10:00	20.14	13.06
01:20:00	20.09	13.06
01:30:00	20.01	13.05
01:40:00	19.95	13.05
01:50:00	19.91	13.05
02:00:00	19.83	13.05
02:10:00	19.77	13.04
02:20:00	19.68	13.03
02:30:00	19.66	13.04
02:40:00	19.57	13.03
02:50:00	19.53	13.03
03:00:00	19.46	13.02
03:10:00	19.41	13.02
03:20:00	19.33	13.02
03:30:00	19.27	13.01
03:40:00	19.20	13.01
03:50:00	19.20	13.00
04:00:00	19.16	12.99
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04:30:00	18.92	12.99
04:40:00	18.91	12.98
04:50:00	18.85	12.98
05:00:00	18.79	12.98
05:10:00	18.72	12.97
05:20:00	18.66	12.97
05:30:00	18.61	12.96
05:40:00	18.55	12.96
05:50:00	18.50	12.95
06:00:00	18.42	12.95
06:10:00	18.42	12.96
06:20:00	18.34	12.98
06:30:00	18.27	13.03
06:40:00	18.22	13.08
06:50:00	18.15	13.15
07:00:00	18.09	13.26
07:10:00	18.06	13.36
07:20:00	18.05	13.48
07:30:00	18.00	13.59
07:40:00	17.96	13.78

07:50:00	17.89	13.95
08:00:00	17.96	13.76
08:10:00	17.89	14.19
08:20:00	18.22	15.00
08:30:00	17.87	15.00
08:40:00	17.87	14.90
08:50:00	17.75	15.00
09:00:00	17.86	14.70
09:10:00	17.90	15.00
09:20:00	17.94	15.00
09:30:00	19.07	15.00
09:40:00	18.39	15.00
09:50:00	18.27	15.00
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10:20:00	18.50	15.00
10:30:00	18.63	14.65
10:40:00	18.74	14.44
10:50:00	18.85	15.00
11:00:00	18.96	14.43
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11:30:00	19.38	14.41
11:40:00	19.31	14.55
11:50:00	19.42	14.70
12:00:00	19.46	14.18
12:10:00	19.48	14.50
12:20:00	19.57	14.42
12:30:00	19.65	14.73
12:40:00	19.75	14.30
12:50:00	19.92	14.50
13:00:00	19.88	14.39
13:10:00	20.25	14.42
13:20:00	20.28	14.31
13:30:00	19.22	14.12
13:40:00	18.35	14.50
13:50:00	18.96	15.00
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14:10:00	18.85	14.36
14:20:00	18.96	14.80
14:30:00	19.05	14.21
14:40:00	19.03	14.04
14:50:00	19.05	14.20
15:00:00	19.03	13.97
15:10:00	19.03	13.84
15:20:00	18.98	13.89
15:30:00	18.96	13.96
15:40:00	19.03	14.44
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16:00:00	19.05	14.39
16:10:00	19.16	14.58

16:20:00	19.27	14.48
16:30:00	19.49	14.58
16:40:00	19.62	14.49
16:50:00	19.57	14.24
17:00:00	19.64	14.33
17:10:00	19.75	14.35
17:20:00	19.73	14.10
17:30:00	19.75	14.15
17:40:00	19.77	14.17
17:50:00	19.84	14.22
18:00:00	19.84	14.14
18:10:00	19.86	14.16
18:20:00	19.86	14.17
18:30:00	19.81	14.17
18:40:00	19.79	14.13
18:50:00	19.79	14.08
19:00:00	19.75	13.99
19:10:00	19.68	13.91
19:20:00	19.64	13.81
19:30:00	19.64	13.78
19:40:00	19.66	13.80
19:50:00	19.68	13.79
20:00:00	19.71	13.79
20:10:00	19.71	13.75
20:20:00	19.73	13.70
20:30:00	19.75	13.63
20:40:00	19.73	13.56
20:50:00	19.77	13.49
21:00:00	19.79	13.41
21:10:00	19.73	13.35
21:20:00	19.75	13.29
21:30:00	19.77	13.23
21:40:00	19.66	13.17
21:50:00	19.66	13.12
22:00:00	19.65	13.08
22:10:00	19.63	13.05
22:20:00	19.60	13.04
22:30:00	19.59	13.05
22:40:00	19.56	13.06
22:50:00	19.51	13.06
23:00:00	19.51	13.06
23:10:00	19.49	13.06
23:20:00	19.42	13.06
23:30:00	19.36	13.06
23:40:00	19.33	13.06
23:50:00	19.28	13.05
07/19/2009 00:00:00	19.28	13.06
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00:30:00	19.14	13.05
00:40:00	19.13	13.05

00:50:00	19.05	13.05
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01:20:00	18.93	13.04
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01:40:00	18.81	13.04
01:50:00	18.79	13.04
02:00:00	18.77	13.04
02:10:00	18.71	13.04
02:20:00	18.66	13.03
02:30:00	18.59	13.03
02:40:00	18.55	13.02
02:50:00	18.53	13.02
03:00:00	18.48	13.01
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03:20:00	18.39	13.01
03:30:00	18.36	13.01
03:40:00	18.29	13.00
03:50:00	18.29	13.00
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04:20:00	18.22	12.99
04:30:00	18.15	12.98
04:40:00	18.12	12.97
04:50:00	18.09	12.97
05:00:00	18.06	12.97
05:10:00	17.99	12.97
05:20:00	17.99	12.96
05:30:00	17.95	12.96
05:40:00	17.90	12.95
05:50:00	17.89	12.94
06:00:00	17.85	12.94
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06:20:00	17.82	12.99
06:30:00	17.76	13.04
06:40:00	17.72	13.09
06:50:00	17.67	13.17
07:00:00	17.70	13.25
07:10:00	17.71	12.78
07:20:00	17.61	13.03
07:30:00	17.62	13.26
07:40:00	17.62	13.49
07:50:00	17.60	13.62
08:00:00	17.52	13.81
08:10:00	17.62	13.89
08:20:00	17.62	14.60
08:30:00	17.63	14.25
08:40:00	18.72	15.00
08:50:00	18.74	15.00
09:00:00	17.83	14.68
09:10:00	17.96	15.00

09:20:00	18.72	15.00
09:30:00	18.15	14.82
09:40:00	18.24	15.00
09:50:00	18.37	14.61
10:00:00	18.44	15.00
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10:50:00	19.08	14.51
11:00:00	19.25	14.74
11:10:00	19.36	14.33
11:20:00	19.44	14.10
11:30:00	19.64	14.90
11:40:00	19.77	14.27
11:50:00	19.74	14.17
12:00:00	19.92	14.94
12:10:00	20.23	14.32
12:20:00	20.27	14.77
12:30:00	20.53	14.09
12:40:00	20.56	14.40
12:50:00	20.56	14.62
13:00:00	20.93	14.62
13:10:00	21.19	14.15
13:20:00	21.10	14.35
13:30:00	21.47	14.67
13:40:00	21.54	14.10
13:50:00	21.69	14.68
14:00:00	21.85	14.09
14:10:00	21.87	14.58
14:20:00	22.13	14.50
14:30:00	22.37	14.14
14:40:00	22.11	14.15
14:50:00	22.10	14.14
15:00:00	22.26	14.21
15:10:00	22.19	14.03
15:20:00	22.27	14.04
15:30:00	22.26	13.97
15:40:00	22.27	13.89
15:50:00	22.26	13.86
16:00:00	22.33	13.99
16:10:00	22.30	14.23
16:20:00	22.30	14.14
16:30:00	22.34	14.30
16:40:00	22.42	14.33
16:50:00	22.47	14.31
17:00:00	22.52	14.39
17:10:00	22.54	14.29
17:20:00	22.61	14.20
17:30:00	22.52	14.19
17:40:00	22.52	14.13

17:50:00	22.50	14.07
18:00:00	22.46	14.00
18:10:00	22.43	13.93
18:20:00	22.35	13.89
18:30:00	22.33	13.93
18:40:00	22.33	13.92
18:50:00	22.41	13.99
19:00:00	22.46	14.07
19:10:00	22.41	14.06
19:20:00	22.33	14.04
19:30:00	22.24	14.01
19:40:00	22.18	13.97
19:50:00	22.06	13.95
20:00:00	22.06	13.91
20:10:00	22.02	13.82
20:20:00	21.93	13.73
20:30:00	21.89	13.65
20:40:00	21.82	13.57
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21:00:00	21.61	13.41
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21:20:00	21.39	13.28
21:30:00	21.25	13.22
21:40:00	21.14	13.16
21:50:00	21.03	13.11
22:00:00	20.88	13.07
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22:20:00	20.73	13.04
22:30:00	20.60	13.05
22:40:00	20.51	13.05
22:50:00	20.38	13.05
23:00:00	20.34	13.06
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23:20:00	20.16	13.05
23:30:00	20.05	13.05
23:40:00	20.01	13.05
23:50:00	19.88	13.05
07/20/2009 00:00:00	19.81	13.04
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01:00:00	19.40	13.03
01:10:00	19.33	13.04
01:20:00	19.22	13.04
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01:50:00	19.04	13.03
02:00:00	18.95	13.03
02:10:00	18.90	13.02

02:20:00	18.84	13.02
02:30:00	18.74	13.01
02:40:00	18.68	13.01
02:50:00	18.63	13.01
03:00:00	18.59	13.01
03:10:00	18.55	13.00
03:20:00	18.47	13.00
03:30:00	18.48	13.00
03:40:00	18.43	12.99
03:50:00	18.36	12.99
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04:10:00	18.23	12.98
04:20:00	18.20	12.97
04:30:00	18.13	12.97
04:40:00	18.09	12.97
04:50:00	18.03	12.97
05:00:00	17.99	12.96
05:10:00	17.91	12.95
05:20:00	17.87	12.94
05:30:00	17.85	12.94
05:40:00	17.82	12.95
05:50:00	17.74	12.94
06:00:00	17.69	12.94
06:10:00	17.64	12.94
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07:00:00	17.40	12.96
07:10:00	17.40	13.02
07:20:00	17.38	13.08
07:30:00	17.32	13.19
07:40:00	17.32	13.38
07:50:00	17.29	13.57
08:00:00	17.30	13.75
08:10:00	17.28	13.87
08:20:00	17.32	14.08
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08:40:00	17.65	15.00
08:50:00	17.65	15.00
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09:20:00	17.78	14.60
09:30:00	17.89	14.70
09:40:00	17.98	14.70
09:50:00	18.07	14.70
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10:10:00	18.22	14.68
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10:30:00	18.46	14.76
10:40:00	18.65	14.69

10:50:00	18.78	14.67
11:00:00	18.89	14.61
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11:30:00	19.38	14.57
11:40:00	19.60	14.61
11:50:00	19.78	14.67
12:00:00	19.95	14.66
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12:20:00	20.26	14.53
12:30:00	20.49	14.32
12:40:00	20.60	14.29
12:50:00	20.68	14.14
13:00:00	20.62	14.15
13:10:00	20.56	14.18
13:20:00	20.56	14.22
13:30:00	20.07	14.43
13:40:00	18.93	14.36
13:50:00	18.81	14.33
14:00:00	19.05	14.35
14:10:00	19.18	14.39
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14:30:00	19.42	14.41
14:40:00	19.53	14.26
14:50:00	19.57	14.31
15:00:00	19.56	14.18
15:10:00	19.65	14.06
15:20:00	19.62	14.00
15:30:00	19.62	14.01
15:40:00	19.66	13.89
15:50:00	19.64	13.78
16:00:00	19.68	13.63
16:10:00	19.55	13.58
16:20:00	19.55	13.69
16:30:00	19.56	14.03
16:40:00	19.57	14.15
16:50:00	19.52	14.07
17:00:00	19.51	14.02
17:10:00	19.49	14.02
17:20:00	19.48	13.97
17:30:00	19.49	13.97
17:40:00	19.46	13.99
17:50:00	19.42	14.00
18:00:00	19.44	13.56
18:10:00	19.42	13.79
18:20:00	19.40	14.06
18:30:00	19.42	14.10
18:40:00	19.42	14.09
18:50:00	19.40	14.06
19:00:00	19.40	14.03
19:10:00	19.36	14.00



19:20:00	19.35	13.98
19:30:00	19.36	13.97
19:40:00	19.33	13.92
19:50:00	19.27	13.84
20:00:00	19.25	13.76
20:10:00	19.25	13.68
20:20:00	19.22	13.60
20:30:00	19.25	13.54
20:40:00	19.20	13.47
20:50:00	19.18	13.40
21:00:00	19.16	13.34
21:10:00	19.16	13.27
21:20:00	19.12	13.22
21:30:00	19.10	13.16
21:40:00	19.05	13.11
21:50:00	19.05	13.06
22:00:00	19.01	13.04
22:10:00	18.98	13.03
22:20:00	18.98	13.03
22:30:00	18.93	13.04
22:40:00	18.97	13.04
22:50:00	18.92	13.05
23:00:00	18.90	13.05
23:10:00	18.90	13.05
23:20:00	18.89	13.05
23:30:00	18.85	13.05
23:40:00	18.81	13.05
23:50:00	18.84	13.05
07/21/2009 00:00:00	18.80	13.04
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00:20:00	18.74	13.05
00:30:00	18.76	13.04
00:40:00	18.70	13.05
00:50:00	18.70	13.05
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01:30:00	18.62	13.03
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01:50:00	18.60	13.04
02:00:00	18.57	13.04
02:10:00	18.54	13.03
02:20:00	18.50	13.03
02:30:00	18.46	13.02
02:40:00	18.49	13.02
02:50:00	18.45	13.02
03:00:00	18.42	13.01
03:10:00	18.41	13.02
03:20:00	18.43	13.01
03:30:00	18.33	13.00
03:40:00	18.33	13.00

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04:00:00	18.29	12.99
04:10:00	18.26	12.99
04:20:00	18.24	12.98
04:30:00	18.24	12.97
04:40:00	18.26	12.97
04:50:00	18.20	12.97
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05:10:00	18.15	12.96
05:20:00	18.14	12.96
05:30:00	18.14	12.95
05:40:00	18.10	12.95
05:50:00	18.07	12.95
06:00:00	18.02	12.94
06:10:00	18.01	12.94
06:20:00	18.00	12.95
06:30:00	18.00	12.98
06:40:00	17.96	13.01
06:50:00	17.93	13.09
07:00:00	17.94	12.82
07:10:00	17.94	12.99
07:20:00	17.94	13.16
07:30:00	17.91	13.37
07:40:00	17.94	13.65
07:50:00	17.95	13.88
08:00:00	17.94	13.96
08:10:00	17.97	13.96
08:20:00	18.09	15.00
08:30:00	18.61	15.00
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09:00:00	18.24	15.00
09:10:00	18.35	14.93
09:20:00	18.48	14.66
09:30:00	18.63	14.92
09:40:00	18.74	14.85
09:50:00	18.92	14.81
10:00:00	19.07	14.80
10:10:00	19.22	14.78
10:20:00	19.36	14.67
10:30:00	19.49	14.62
10:40:00	19.66	14.64
10:50:00	19.84	14.59
11:00:00	19.90	14.05
11:10:00	19.97	14.49
11:20:00	19.99	14.44
11:30:00	20.21	14.64
11:40:00	20.44	14.41
11:50:00	20.58	14.24
12:00:00	20.73	14.71
12:10:00	20.88	14.22

12:20:00	20.93	14.62
12:30:00	21.26	14.54
12:40:00	21.47	14.51
12:50:00	21.78	14.50
13:00:00	22.06	14.34
13:10:00	22.26	14.46
13:20:00	22.49	14.47
13:30:00	22.78	14.44
13:40:00	22.94	14.21
13:50:00	23.02	14.21
14:00:00	23.02	14.47
14:10:00	23.18	13.96
14:20:00	23.13	14.11
14:30:00	23.22	14.29
14:40:00	23.51	14.13
14:50:00	23.79	14.37
15:00:00	24.19	14.33
15:10:00	24.49	14.33
15:20:00	24.60	14.31
15:30:00	24.68	14.27
15:40:00	24.97	14.17
15:50:00	25.12	14.35
16:00:00	25.27	14.30
16:10:00	25.49	14.23
16:20:00	25.60	14.05
16:30:00	25.67	14.20
16:40:00	25.86	14.19
16:50:00	25.93	14.20
17:00:00	25.97	14.04
17:10:00	25.98	13.80
17:20:00	25.47	13.60
17:30:00	24.64	13.56
17:40:00	23.39	13.72
17:50:00	22.12	13.90
18:00:00	21.41	14.10
18:10:00	21.19	14.03
18:20:00	21.17	14.01
18:30:00	21.21	13.93
18:40:00	21.17	13.89
18:50:00	21.17	13.87
19:00:00	21.15	13.86
19:10:00	21.10	13.85
19:20:00	21.08	13.84
19:30:00	21.04	13.82
19:40:00	20.95	13.79
19:50:00	20.95	13.75
20:00:00	20.86	13.72
20:10:00	20.80	13.67
20:20:00	20.73	13.62
20:30:00	20.64	13.57
20:40:00	20.56	13.49

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21:10:00	20.27	13.29
21:20:00	20.20	13.22
21:30:00	20.12	13.17
21:40:00	20.07	13.12
21:50:00	19.99	13.07
22:00:00	19.96	13.04
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22:40:00	19.75	13.04
22:50:00	19.69	13.04
23:00:00	19.60	13.04
23:10:00	19.59	13.04
23:20:00	19.54	13.05
23:30:00	19.52	13.05
23:40:00	19.52	13.04
23:50:00	19.51	13.04
07/22/2009 00:00:00	19.51	13.04
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01:50:00	19.22	13.03
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02:20:00	19.14	13.02
02:30:00	19.12	13.02
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03:30:00	18.83	13.01
03:40:00	18.79	13.01
03:50:00	18.77	13.00
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04:30:00	18.61	12.99
04:40:00	18.58	12.98
04:50:00	18.56	12.98
05:00:00	18.55	12.97
05:10:00	18.47	12.97

05:20:00	18.43	12.97
05:30:00	18.39	12.96
05:40:00	18.35	12.96
05:50:00	18.34	12.94
06:00:00	18.29	12.94
06:10:00	18.27	12.97
06:20:00	18.22	13.02
06:30:00	18.14	13.05
06:40:00	18.14	13.13
06:50:00	18.14	12.75
07:00:00	18.12	12.99
07:10:00	18.03	13.21
07:20:00	18.00	13.41
07:30:00	18.02	13.60
07:40:00	18.02	13.97
07:50:00	18.00	14.06
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09:20:00	18.35	14.46
09:30:00	18.44	15.00
09:40:00	18.34	15.00
09:50:00	18.71	15.00
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10:20:00	19.07	14.60
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10:40:00	19.41	14.71
10:50:00	19.52	14.67
11:00:00	19.68	14.71
11:10:00	19.84	14.63
11:20:00	19.98	14.43
11:30:00	20.11	14.48
11:40:00	20.28	14.38
11:50:00	20.40	14.45
12:00:00	20.62	14.59
12:10:00	20.84	14.25
12:20:00	20.95	14.37
12:30:00	21.10	14.34
12:40:00	21.20	14.37
12:50:00	21.36	14.32
13:00:00	21.61	14.40
13:10:00	21.76	14.43
13:20:00	21.89	14.32
13:30:00	21.89	14.24
13:40:00	22.10	14.08

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14:30:00	22.63	14.19
14:40:00	22.83	14.19
14:50:00	22.91	14.29
15:00:00	23.04	14.27
15:10:00	23.19	14.12
15:20:00	23.16	14.03
15:30:00	23.20	13.93
15:40:00	23.22	13.77
15:50:00	23.20	13.77
16:00:00	23.19	14.00
16:10:00	23.24	14.23
16:20:00	23.26	14.08
16:30:00	23.16	14.32
16:40:00	23.20	14.25
16:50:00	22.59	14.32
17:00:00	20.85	14.24
17:10:00	19.97	14.35
17:20:00	19.97	14.20
17:30:00	19.95	14.18
17:40:00	19.95	14.15
17:50:00	19.90	14.15
18:00:00	19.90	14.20
18:10:00	19.90	14.11
18:20:00	19.88	14.00
18:30:00	19.81	13.97
18:40:00	19.84	13.99
18:50:00	19.77	13.91
19:00:00	19.71	13.90
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19:50:00	19.54	13.70
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20:30:00	19.49	13.51
20:40:00	19.44	13.43
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21:00:00	19.46	13.28
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21:30:00	19.44	13.11
21:40:00	19.43	13.07
21:50:00	19.44	13.05
22:00:00	19.40	13.05
22:10:00	19.43	13.06

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23:20:00	19.36	13.07
23:30:00	19.36	13.06
23:40:00	19.36	13.06
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07/23/2009 00:00:00	19.33	13.06
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01:30:00	19.35	13.05
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01:50:00	19.39	13.05
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02:40:00	19.46	13.03
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03:00:00	19.53	13.02
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03:20:00	19.55	13.01
03:30:00	19.60	13.01
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04:40:00	19.71	12.98
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05:20:00	19.73	12.97
05:30:00	19.73	12.97
05:40:00	19.77	12.97
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06:20:00	19.75	12.97
06:30:00	19.78	12.98
06:40:00	19.77	13.02

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07:10:00	19.80	13.15
07:20:00	19.80	13.26
07:30:00	19.81	13.34
07:40:00	19.84	13.45
07:50:00	19.80	13.68
08:00:00	19.85	13.75
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08:20:00	19.95	13.82
08:30:00	19.99	13.82
08:40:00	19.97	13.86
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09:30:00	20.16	14.19
09:40:00	20.21	14.31
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11:40:00	21.19	14.57
11:50:00	21.28	14.62
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12:40:00	21.78	14.52
12:50:00	21.96	14.51
13:00:00	22.04	14.29
13:10:00	22.09	14.46
13:20:00	22.28	14.30
13:30:00	22.33	14.32
13:40:00	22.37	14.25
13:50:00	22.61	14.73
14:00:00	22.94	14.72
14:10:00	23.05	14.46
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14:30:00	23.42	14.70
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14:50:00	23.81	14.38
15:00:00	23.82	14.16
15:10:00	23.92	14.41



15:20:00	24.09	14.35
15:30:00	24.42	14.29
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15:50:00	24.64	14.34
16:00:00	24.64	14.16
16:10:00	24.63	14.21
16:20:00	24.77	14.22
16:30:00	24.97	14.33
16:40:00	25.08	14.25
16:50:00	25.14	13.78
17:00:00	25.30	14.19
17:10:00	25.32	13.98
17:20:00	25.38	14.00
17:30:00	25.45	14.08
17:40:00	25.51	14.07
17:50:00	25.49	13.97
18:00:00	25.56	13.96
18:10:00	25.54	13.92
18:20:00	25.51	13.92
18:30:00	25.49	13.98
18:40:00	25.47	13.98
18:50:00	25.43	14.00
19:00:00	25.38	14.01
19:10:00	25.34	14.00
19:20:00	25.32	13.95
19:30:00	25.27	13.87
19:40:00	25.19	13.80
19:50:00	25.14	13.72
20:00:00	25.01	13.67
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20:30:00	24.64	13.48
20:40:00	24.53	13.41
20:50:00	24.40	13.34
21:00:00	24.25	13.27
21:10:00	24.09	13.21
21:20:00	23.96	13.15
21:30:00	23.81	13.10
21:40:00	23.71	13.07
21:50:00	23.55	13.05
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22:20:00	23.18	13.07
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23:20:00	22.63	13.07
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23:40:00	22.43	13.07

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07/24/2009 00:00:00	22.28	13.06
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01:30:00	21.56	13.06
01:40:00	21.47	13.05
01:50:00	21.43	13.05
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02:40:00	21.06	13.04
02:50:00	21.02	13.03
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03:20:00	20.80	13.02
03:30:00	20.73	13.02
03:40:00	20.64	13.02
03:50:00	20.62	13.01
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05:30:00	20.13	12.98
05:40:00	20.07	12.97
05:50:00	20.07	12.97
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06:20:00	19.95	12.98
06:30:00	19.86	13.00
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07:10:00	19.81	13.26
07:20:00	19.79	13.46
07:30:00	19.77	13.59
07:40:00	19.83	13.76
07:50:00	19.79	13.85
08:00:00	19.83	13.86
08:10:00	19.81	14.00

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09:10:00	20.11	14.01
09:20:00	20.67	15.00
09:30:00	20.78	15.00
09:40:00	20.32	14.46
09:50:00	20.36	14.45
10:00:00	20.53	14.71
10:10:00	20.67	14.86
10:20:00	20.88	14.40
10:30:00	20.84	14.70
10:40:00	21.04	14.73
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11:00:00	21.12	14.54
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11:30:00	21.52	14.16
11:40:00	21.53	14.37
11:50:00	21.69	14.27
12:00:00	21.71	14.87
12:10:00	21.98	14.46
12:20:00	22.19	14.38
12:30:00	22.43	14.59
12:40:00	22.47	14.68
12:50:00	22.83	14.41
13:00:00	22.72	14.60
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13:20:00	22.37	14.50
13:30:00	21.34	14.48
13:40:00	20.08	14.42
13:50:00	20.16	14.42
14:00:00	20.21	13.99
14:10:00	20.36	14.42
14:20:00	20.27	14.22
14:30:00	20.36	14.20
14:40:00	20.38	14.36
14:50:00	20.51	14.32
15:00:00	20.51	14.12
15:10:00	20.67	14.35
15:20:00	20.75	14.31
15:30:00	20.84	14.27
15:40:00	20.91	13.93
15:50:00	21.06	14.22
16:00:00	20.97	14.24
16:10:00	21.14	14.09
16:20:00	21.27	14.25
16:30:00	21.19	14.10
16:40:00	21.34	13.99

16:50:00	21.54	14.10
17:00:00	21.52	14.02
17:10:00	21.61	13.88
17:20:00	21.73	14.18
17:30:00	21.80	14.07
17:40:00	22.06	14.05
17:50:00	22.11	13.99
18:00:00	22.13	13.99
18:10:00	22.11	13.99
18:20:00	22.15	13.94
18:30:00	22.24	13.89
18:40:00	22.26	13.86
18:50:00	22.28	13.82
19:00:00	22.26	13.81
19:10:00	22.26	13.80
19:20:00	22.24	13.79
19:30:00	22.19	13.74
19:40:00	22.14	13.69
19:50:00	22.13	13.65
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20:30:00	21.91	13.49
20:40:00	21.85	13.42
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21:00:00	21.65	13.28
21:10:00	21.52	13.21
21:20:00	21.43	13.15
21:30:00	21.35	13.11
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21:50:00	21.20	13.05
22:00:00	21.10	13.04
22:10:00	21.07	13.05
22:20:00	20.99	13.05
22:30:00	20.94	13.06
22:40:00	20.87	13.06
22:50:00	20.85	13.06
23:00:00	20.81	13.06
23:10:00	20.73	13.06
23:20:00	20.67	13.06
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10:50:00	19.44	14.84
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11:40:00	20.70	14.67
11:50:00	20.93	14.45
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12:40:00	19.03	14.56
12:50:00	19.25	14.25
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13:10:00	19.86	14.51
13:20:00	20.08	14.44
13:30:00	20.23	14.41
13:40:00	20.45	14.17
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17:50:00	19.92	13.84
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18:10:00	19.88	14.00

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08:00:00	18.72	13.64
08:10:00	18.67	13.64
08:20:00	18.71	13.64
08:30:00	18.71	13.63
08:40:00	18.75	13.62
08:50:00	18.80	13.60
09:00:00	18.84	13.58
09:10:00	18.95	13.50
09:20:00	19.17	13.41
09:30:00	19.28	13.47
09:40:00	19.45	13.48
09:50:00	19.58	13.46
10:00:00	19.70	13.45
10:10:00	19.80	13.44
10:20:00	19.89	13.43
10:30:00	20.07	13.43
10:40:00	20.04	13.43
10:50:00	20.11	13.43
11:00:00	20.23	13.43
11:10:00	20.40	13.21
11:20:00	20.36	13.38
11:30:00	20.53	13.33
11:40:00	20.56	13.38
11:50:00	20.74	13.38
12:00:00	20.98	13.38
12:10:00	21.29	13.37
12:20:00	21.55	13.35
12:30:00	21.95	13.30
12:40:00	22.17	13.28
12:50:00	22.39	13.31
13:00:00	22.77	13.32
13:10:00	22.91	13.31
13:20:00	23.05	13.31
13:30:00	23.43	13.31
13:40:00	23.70	13.31
13:50:00	23.92	13.31
14:00:00	24.07	13.31
14:10:00	24.32	13.32

14:20:00	24.66	13.31
14:30:00	24.70	13.31
14:40:00	25.05	13.31
14:50:00	24.49	13.31
15:00:00	22.90	13.28
15:10:00	21.63	13.31
15:20:00	21.63	13.31
15:30:00	21.45	13.31
15:40:00	21.39	13.31
15:50:00	21.36	13.31
16:00:00	21.32	13.31
16:10:00	21.32	13.31
16:20:00	21.32	13.20
16:30:00	21.44	13.30
16:40:00	21.47	13.31
16:50:00	21.64	13.32
17:00:00	21.74	13.32
17:10:00	21.83	13.32
17:20:00	21.93	13.32
17:30:00	22.02	13.33
17:40:00	22.13	13.33
17:50:00	22.22	13.33
18:00:00	22.25	13.34
18:10:00	22.39	13.35
18:20:00	22.39	13.35
18:30:00	22.42	13.36
18:40:00	22.46	13.37
18:50:00	22.50	13.37
19:00:00	22.46	13.38
19:10:00	22.48	13.39
19:20:00	22.49	13.40
19:30:00	22.46	13.41
19:40:00	22.40	13.37
19:50:00	22.37	13.33
20:00:00	22.31	13.30
20:10:00	22.31	13.28
20:20:00	22.26	13.26
20:30:00	22.22	13.24
20:40:00	22.15	13.24
20:50:00	22.13	13.23
21:00:00	22.05	13.22
21:10:00	22.01	13.21
21:20:00	21.98	13.21
21:30:00	21.88	13.20
21:40:00	21.78	13.19
21:50:00	21.76	13.19
22:00:00	21.69	13.19
22:10:00	21.65	13.18
22:20:00	21.59	13.18
22:30:00	21.51	13.18
22:40:00	21.48	13.18

22:50:00	21.42	13.17
23:00:00	21.40	13.17
23:10:00	21.35	13.17
23:20:00	21.35	13.17
23:30:00	21.29	13.17
23:40:00	21.27	13.16
23:50:00	21.24	13.16
07/29/2009 00:00:00	21.22	13.16
00:10:00	21.18	13.16
00:20:00	21.18	13.15
00:30:00	21.16	13.15
00:40:00	21.11	13.15
00:50:00	21.11	13.15
01:00:00	21.07	13.15
01:10:00	21.07	13.15
01:20:00	21.05	13.15
01:30:00	21.00	13.14
01:40:00	20.98	13.14
01:50:00	20.94	13.14
02:00:00	20.92	13.14
02:10:00	20.92	13.14
02:20:00	20.85	13.14
02:30:00	20.85	13.14
02:40:00	20.81	13.14
02:50:00	20.76	13.13
03:00:00	20.72	13.13
03:10:00	20.70	13.13
03:20:00	20.63	13.13
03:30:00	20.58	13.13
03:40:00	20.56	13.13
03:50:00	20.48	13.13
04:00:00	20.50	13.13
04:10:00	20.42	13.12
04:20:00	20.41	13.13
04:30:00	20.39	13.13
04:40:00	20.35	13.13
04:50:00	20.31	13.12
05:00:00	20.28	13.12
05:10:00	20.22	13.12
05:20:00	20.24	13.12
05:30:00	20.22	13.12
05:40:00	20.13	13.12
05:50:00	20.15	13.12
06:00:00	20.09	13.12
06:10:00	20.11	13.12
06:20:00	20.08	13.12
06:30:00	20.08	13.12
06:40:00	20.04	13.12
06:50:00	20.02	12.85
07:00:00	20.02	12.96
07:10:00	19.99	13.02



07:20:00	19.99	13.04
07:30:00	19.93	13.08
07:40:00	19.95	13.17
07:50:00	19.93	13.26
08:00:00	19.91	13.35
08:10:00	19.91	13.41
08:20:00	19.89	13.56
08:30:00	19.93	13.57
08:40:00	19.93	13.57
08:50:00	19.96	13.56
09:00:00	19.96	13.56
09:10:00	20.02	13.21
09:20:00	20.02	13.54
09:30:00	20.07	13.54
09:40:00	20.08	13.05
09:50:00	20.08	13.33
10:00:00	20.10	13.52
10:10:00	20.20	13.54
10:20:00	20.24	13.53
10:30:00	20.28	13.54
10:40:00	20.37	13.54
10:50:00	20.46	13.54
11:00:00	20.52	13.53
11:10:00	20.59	13.53
11:20:00	20.68	13.30
11:30:00	20.76	13.51
11:40:00	20.79	13.52
11:50:00	20.87	13.51
12:00:00	21.00	13.51
12:10:00	21.11	13.51
12:20:00	21.20	13.51
12:30:00	21.29	13.51
12:40:00	21.38	13.50
12:50:00	21.39	13.39
13:00:00	21.48	13.48
13:10:00	21.56	13.50
13:20:00	21.58	13.50
13:30:00	21.68	13.50
13:40:00	21.65	13.50
13:50:00	21.69	13.50
14:00:00	21.68	13.51
14:10:00	21.67	13.51
14:20:00	21.70	13.51
14:30:00	21.74	13.51
14:40:00	21.71	13.51
14:50:00	21.72	13.52
15:00:00	21.76	13.49
15:10:00	21.72	13.52
15:20:00	21.77	13.52
15:30:00	21.83	13.52
15:40:00	21.78	13.52

15:50:00	21.80	13.52
16:00:00	21.91	13.52
16:10:00	21.91	13.52
16:20:00	21.96	13.52
16:30:00	21.95	13.52
16:40:00	22.03	13.52
16:50:00	22.01	13.52
17:00:00	22.03	13.52
17:10:00	22.06	13.52
17:20:00	21.95	13.52
17:30:00	21.99	13.52
17:40:00	21.98	13.44
17:50:00	21.94	13.41
18:00:00	21.92	13.41
18:10:00	21.89	13.52
18:20:00	21.90	13.53
18:30:00	21.92	13.53
18:40:00	21.91	13.53
18:50:00	21.94	13.53
19:00:00	21.90	13.45
19:10:00	21.87	13.50
19:20:00	21.82	13.43
19:30:00	21.81	13.42
19:40:00	21.74	13.41
19:50:00	21.79	13.53
20:00:00	21.77	13.43
20:10:00	21.70	13.40
20:20:00	21.72	13.37
20:30:00	21.66	13.35
20:40:00	21.66	13.34
20:50:00	21.62	13.32
21:00:00	21.57	13.31
21:10:00	21.53	13.30
21:20:00	21.48	13.29
21:30:00	21.47	13.28
21:40:00	21.42	13.27
21:50:00	21.36	13.26
22:00:00	21.38	13.26
22:10:00	21.29	13.26
22:20:00	21.29	13.25
22:30:00	21.23	13.24
22:40:00	21.18	13.24
22:50:00	21.17	13.23
23:00:00	21.15	13.23
23:10:00	21.11	13.23
23:20:00	21.09	13.22
23:30:00	21.00	13.23
23:40:00	20.96	13.22
23:50:00	20.93	13.22
07/30/2009 00:00:00	20.92	13.21
00:10:00	20.87	13.21

00:20:00	20.87	13.21
00:30:00	20.83	13.21
00:40:00	20.81	13.21
00:50:00	20.74	13.20
01:00:00	20.72	13.20
01:10:00	20.65	13.20
01:20:00	20.65	13.20
01:30:00	20.59	13.19
01:40:00	20.59	13.19
01:50:00	20.50	13.19
02:00:00	20.46	13.19
02:10:00	20.47	13.19
02:20:00	20.41	13.19
02:30:00	20.37	13.19
02:40:00	20.37	13.18
02:50:00	20.33	13.18
03:00:00	20.31	13.18
03:10:00	20.26	13.18
03:20:00	20.22	13.18
03:30:00	20.22	13.17
03:40:00	20.17	13.17
03:50:00	20.17	13.17
04:00:00	20.15	13.17
04:10:00	20.11	13.17
04:20:00	20.07	13.17
04:30:00	20.02	13.17
04:40:00	20.00	13.17
04:50:00	19.93	13.16
05:00:00	19.96	13.16
05:10:00	19.93	13.16
05:20:00	19.89	13.16
05:30:00	19.87	13.16
05:40:00	19.85	13.16
05:50:00	19.82	13.16
06:00:00	19.82	13.16
06:10:00	19.78	13.16
06:20:00	19.80	13.15
06:30:00	19.76	13.16
06:40:00	19.74	13.15
06:50:00	19.72	13.15
07:00:00	19.76	13.04
07:10:00	19.72	13.11
07:20:00	19.69	13.15
07:30:00	19.69	13.17
07:40:00	19.74	13.25
07:50:00	19.69	13.22
08:00:00	19.69	13.25
08:10:00	19.74	13.53
08:20:00	19.72	13.55
08:30:00	19.76	13.56
08:40:00	19.76	13.56

08:50:00	19.85	13.55
09:00:00	19.91	13.55
09:10:00	19.98	13.55
09:20:00	20.02	13.48
09:30:00	20.11	13.52
09:40:00	20.14	13.52
09:50:00	20.21	13.51
10:00:00	20.22	13.51
10:10:00	20.28	13.51
10:20:00	20.32	13.51
10:30:00	20.39	13.50
10:40:00	20.39	13.51
10:50:00	20.50	13.51
11:00:00	20.50	13.50
11:10:00	20.57	13.50
11:20:00	20.67	13.49
11:30:00	20.74	13.22
11:40:00	20.80	13.47
11:50:00	20.98	13.47
12:00:00	21.14	13.46
12:10:00	21.25	13.45
12:20:00	21.52	13.44
12:30:00	21.62	13.43
12:40:00	21.60	13.42
12:50:00	21.76	13.42
13:00:00	21.82	13.42
13:10:00	21.83	13.42
13:20:00	22.12	13.42
13:30:00	22.14	13.40
13:40:00	22.38	13.34
13:50:00	22.45	13.39
14:00:00	22.64	13.27
14:10:00	22.64	13.37
14:20:00	22.72	13.37
14:30:00	22.74	13.38
14:40:00	22.94	13.38
14:50:00	23.18	13.37
15:00:00	23.17	13.37
15:10:00	23.39	13.36
15:20:00	23.39	13.36
15:30:00	23.46	13.36
15:40:00	23.68	13.35
15:50:00	23.84	13.35
16:00:00	23.92	13.34
16:10:00	24.09	13.34
16:20:00	24.28	13.34
16:30:00	24.46	13.17
16:40:00	24.46	13.32
16:50:00	24.49	13.33
17:00:00	24.52	13.34
17:10:00	24.45	13.35

17:20:00	24.52	13.36
17:30:00	24.53	13.36
17:40:00	24.53	13.36
17:50:00	24.53	13.37
18:00:00	24.62	13.38
18:10:00	24.65	13.39
18:20:00	24.53	13.39
18:30:00	24.54	13.41
18:40:00	24.46	13.41
18:50:00	24.44	13.42
19:00:00	24.37	13.42
19:10:00	24.30	13.30
19:20:00	24.21	13.27
19:30:00	24.17	13.30
19:40:00	24.15	13.31
19:50:00	24.07	13.37
20:00:00	23.97	13.29
20:10:00	23.90	13.25
20:20:00	23.79	13.23
20:30:00	23.76	13.21
20:40:00	23.67	13.20
20:50:00	23.58	13.18
21:00:00	23.48	13.17
21:10:00	23.37	13.16
21:20:00	23.32	13.16
21:30:00	23.23	13.15
21:40:00	23.13	13.14
21:50:00	23.10	13.14
22:00:00	22.97	13.13
22:10:00	22.90	13.12
22:20:00	22.86	13.12
22:30:00	22.73	13.11
22:40:00	22.63	13.11
22:50:00	22.54	13.10
23:00:00	22.50	13.09
23:10:00	22.40	13.09
23:20:00	22.35	13.08
23:30:00	22.24	13.08
23:40:00	22.15	13.07
23:50:00	22.14	13.08
07/31/2009 00:00:00	22.03	13.07
00:10:00	21.96	13.06
00:20:00	21.88	13.05
00:30:00	21.79	13.05
00:40:00	21.75	13.04
00:50:00	21.64	13.04
01:00:00	21.54	13.03
01:10:00	21.48	13.03
01:20:00	21.40	13.04
01:30:00	21.29	13.03
01:40:00	21.24	13.03

01:50:00	21.14	13.03
02:00:00	21.07	13.03
02:10:00	21.00	13.03
02:20:00	20.94	13.03
02:30:00	20.85	13.03
02:40:00	20.79	13.04
02:50:00	20.72	13.04
03:00:00	20.70	13.04
03:10:00	20.65	13.03
03:20:00	20.63	13.03
03:30:00	20.57	13.03
03:40:00	20.50	13.03
03:50:00	20.50	13.03
04:00:00	20.44	13.03
04:10:00	20.44	13.03
04:20:00	20.48	13.03
04:30:00	20.37	13.03
04:40:00	20.39	13.02
04:50:00	20.35	13.02
05:00:00	20.37	13.02
05:10:00	20.35	13.03
05:20:00	20.33	13.03
05:30:00	20.28	13.03
05:40:00	20.37	13.03
05:50:00	20.31	13.03
06:00:00	20.31	13.02
06:10:00	20.28	13.03
06:20:00	20.28	13.03
06:30:00	20.26	13.03
06:40:00	20.24	13.02
06:50:00	20.26	12.97
07:00:00	20.24	12.98
07:10:00	20.28	13.02
07:20:00	20.26	13.04
07:30:00	20.26	13.07
07:40:00	20.28	13.08
07:50:00	20.28	13.10
08:00:00	20.24	13.19
08:10:00	20.28	13.26
08:20:00	20.31	13.38
08:30:00	20.33	13.54
08:40:00	20.37	13.55
08:50:00	20.39	13.55
09:00:00	20.44	13.54
09:10:00	20.49	13.54
09:20:00	20.52	13.37
09:30:00	20.57	13.13
09:40:00	20.56	13.39
09:50:00	20.60	13.52
10:00:00	20.64	13.52
10:10:00	20.61	13.53

10:20:00	20.61	13.45
10:30:00	20.63	13.39
10:40:00	20.63	13.34
10:50:00	20.57	13.31
11:00:00	20.61	13.21
11:10:00	20.55	13.24
11:20:00	20.50	13.28
11:30:00	20.52	13.50
11:40:00	20.57	13.54
11:50:00	20.57	13.54
12:00:00	20.63	13.53
12:10:00	20.61	13.54
12:20:00	20.63	13.54
12:30:00	20.69	13.53
12:40:00	20.63	13.54
12:50:00	20.65	13.54
13:00:00	20.70	13.54
13:10:00	20.72	13.54
13:20:00	20.59	13.53
13:30:00	19.76	13.52
13:40:00	18.75	13.51
13:50:00	19.02	13.50
14:00:00	19.37	13.48
14:10:00	19.48	13.46
14:20:00	19.61	13.46
14:30:00	19.69	13.47
14:40:00	19.76	13.47
14:50:00	19.78	13.46
15:00:00	19.81	13.47
15:10:00	19.93	13.47
15:20:00	20.00	13.47
15:30:00	20.20	13.47
15:40:00	20.29	13.46
15:50:00	20.34	13.45
16:00:00	20.42	13.43
16:10:00	20.53	13.44
16:20:00	20.59	13.43
16:30:00	20.74	13.43
16:40:00	20.71	13.43
16:50:00	20.88	13.43
17:00:00	20.99	13.43
17:10:00	21.00	13.43
17:20:00	21.17	13.43
17:30:00	21.27	13.43
17:40:00	21.33	13.42
17:50:00	21.44	13.43
18:00:00	21.55	13.43
18:10:00	21.55	13.43
18:20:00	21.57	13.43
18:30:00	21.64	13.43
18:40:00	21.64	13.44

18:50:00	21.68	13.44
19:00:00	21.72	13.44
19:10:00	21.83	13.43
19:20:00	21.81	13.45
19:30:00	21.88	13.39
19:40:00	21.81	13.34
19:50:00	21.81	13.31
20:00:00	21.83	13.28
20:10:00	21.86	13.26
20:20:00	21.86	13.24
20:30:00	21.83	13.22
20:40:00	21.79	13.21
20:50:00	21.79	13.19
21:00:00	21.79	13.19
21:10:00	21.74	13.18
21:20:00	21.71	13.17
21:30:00	21.68	13.16
21:40:00	21.58	13.15
21:50:00	21.52	13.15
22:00:00	21.46	13.14
22:10:00	21.51	13.13
22:20:00	21.42	13.13
22:30:00	21.33	13.12
22:40:00	21.29	13.11
22:50:00	21.27	13.11
23:00:00	21.22	13.11
23:10:00	21.18	13.10
23:20:00	21.16	13.10
23:30:00	21.18	13.09
23:40:00	21.16	13.09
23:50:00	21.14	13.09
08/01/2009 00:00:00	21.14	13.08



## 8200 DATA FROM 08/11/2009 to 09/01/09

DATE	TIME	WaterTemp	Battery
8/11/2009	0:00:00	-50.62	14.27
	0:10:00	-50.77	14.30
	0:20:00	-50.53	14.36
	0:30:00	-50.59	14.24
	0:40:00	-50.51	14.37
	0:50:00	-50.70	14.23
	1:00:00	-50.88	14.21
	1:10:00	-50.62	14.39
	1:20:00	-50.57	14.38
	1:30:00	-50.53	14.30
	1:40:00	-50.62	14.38
	1:50:00	-50.64	14.35
	2:00:00	-50.64	14.28
	2:10:00	-50.55	14.34
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	2:30:00	-50.51	14.31
	2:40:00	-50.59	14.39
	2:50:00	-50.59	14.40
	3:00:00	-50.84	14.29
	3:10:00	-50.86	14.40
	3:20:00	-50.68	14.32
	3:30:00	-50.55	14.32
	3:40:00	-50.59	14.29
	3:50:00	-50.51	14.32
	4:00:00	-50.51	14.26
	4:10:00	-50.86	14.23
	4:20:00	-50.59	14.20
	4:30:00	-50.88	14.34
	4:40:00	-50.79	14.25
	4:50:00	-50.66	14.34
	5:00:00	-50.55	14.29
	5:10:00	-50.59	14.31
	5:20:00	-50.66	14.30
	5:30:00	-50.57	14.36
	5:40:00	-50.70	14.26
	5:50:00	-50.84	14.36
	6:00:00	-50.94	14.34
	6:10:00	-50.64	14.34
	6:20:00	-50.62	14.25
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	6:40:00	-50.66	14.36
	6:50:00	-50.62	14.23

7:00:00	-50.57	14.34
7:10:00	-50.50	14.28
7:20:00	-50.70	13.43
7:30:00	-50.81	13.19
7:40:00	-50.75	13.24
7:50:00	-50.59	13.24
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8:10:00	21.64	13.34
8:20:00	21.63	13.45
8:30:00	21.71	13.58
8:40:00	21.74	13.65
8:50:00	21.71	13.71
9:00:00	21.74	13.83
9:10:00	21.76	13.84
9:20:00	21.78	14.09
9:30:00	21.82	13.74
9:40:00	21.82	14.01
9:50:00	21.77	15.00
10:00:00	21.97	14.20
10:10:00	22.09	14.64
10:20:00	21.88	15.00
10:30:00	22.25	14.53
10:40:00	22.15	15.00
10:50:00	22.35	14.43
11:00:00	22.49	14.30
11:10:00	22.49	14.23
11:20:00	22.49	14.21
11:30:00	22.50	14.06
11:40:00	22.52	14.24
11:50:00	22.58	14.35
12:00:00	22.70	14.25
12:10:00	22.74	14.34
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12:40:00	23.11	14.46
12:50:00	23.31	14.34
13:00:00	23.44	14.19
13:10:00	23.53	14.26
13:20:00	22.93	15.00
13:30:00	21.59	14.91
13:40:00	21.05	14.66
13:50:00	21.22	14.15
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14:30:00	21.47	14.41
14:40:00	21.54	14.23

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15:30:00	21.85	14.26
15:40:00	21.98	14.16
15:50:00	21.91	13.93
16:00:00	21.87	14.04
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16:20:00	21.80	14.21
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16:40:00	21.67	14.26
16:50:00	21.69	13.87
17:00:00	21.58	13.93
17:10:00	21.76	14.18
17:20:00	21.64	14.14
17:30:00	21.59	14.00
17:40:00	21.44	13.86
17:50:00	21.30	13.91
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18:10:00	21.18	13.91
18:20:00	20.99	13.88
18:30:00	20.92	13.85
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19:00:00	20.78	13.82
19:10:00	20.70	13.64
19:20:00	20.60	13.57
19:30:00	20.53	13.52
19:40:00	20.52	13.44
19:50:00	20.49	13.36
20:00:00	20.45	13.30
20:10:00	20.38	13.24
20:20:00	20.36	13.18
20:30:00	20.36	13.13
20:40:00	20.34	13.10
20:50:00	20.36	13.08
21:00:00	20.34	13.07
21:10:00	20.36	13.06
21:20:00	20.33	13.06
21:30:00	20.34	13.06
21:40:00	20.29	13.07
21:50:00	20.27	13.07
22:00:00	20.29	13.06
22:10:00	20.27	13.06
22:20:00	20.27	13.06
22:30:00	20.23	13.06

	22:40:00	20.25	13.06
	22:50:00	20.20	13.06
	23:00:00	20.19	13.06
	23:10:00	20.21	13.06
	23:20:00	20.20	13.06
	23:30:00	20.21	13.05
	23:40:00	20.16	13.06
	23:50:00	20.12	13.05
8/12/2009	0:00:00	20.14	13.06
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	0:30:00	20.14	13.05
	0:40:00	20.19	13.06
	0:50:00	20.19	13.05
	1:00:00	20.20	13.06
	1:10:00	20.21	13.05
	1:20:00	20.28	13.05
	1:30:00	20.29	13.05
	1:40:00	20.34	13.05
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	2:20:00	20.43	13.05
	2:30:00	20.45	13.05
	2:40:00	20.51	13.05
	2:50:00	20.53	13.05
	3:00:00	20.51	13.05
	3:10:00	20.61	13.05
	3:20:00	20.62	13.05
	3:30:00	20.63	13.05
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	3:50:00	20.68	13.05
	4:00:00	20.69	13.05
	4:10:00	20.70	13.05
	4:20:00	20.70	13.05
	4:30:00	20.74	13.05
	4:40:00	20.71	13.05
	4:50:00	20.73	13.05
	5:00:00	20.73	13.06
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	5:40:00	20.78	13.06
	5:50:00	20.71	13.05
	6:00:00	20.71	13.05
	6:10:00	20.78	13.05
	6:20:00	20.75	13.06

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7:40:00	20.72	13.19
7:50:00	20.72	13.27
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8:40:00	20.80	13.83
8:50:00	20.83	14.79
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12:20:00	22.72	14.34
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12:40:00	22.97	14.69
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13:00:00	23.43	14.28
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13:20:00	23.45	13.76
13:30:00	23.54	14.02
13:40:00	23.57	13.98
13:50:00	23.63	14.15
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15:30:00	24.39	14.52
15:40:00	24.51	14.58
15:50:00	24.66	14.50
16:00:00	24.81	14.43
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16:20:00	24.92	14.32
16:30:00	25.13	14.32
16:40:00	25.26	14.23
16:50:00	25.30	14.05
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17:30:00	25.54	14.03
17:40:00	25.58	13.97
17:50:00	25.57	13.87
18:00:00	25.51	13.83
18:10:00	25.45	13.80
18:20:00	25.43	13.74
18:30:00	25.43	13.78
18:40:00	25.38	13.97
18:50:00	25.37	14.08
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19:10:00	25.18	13.88
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19:40:00	24.76	13.69
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21:50:00	23.32	13.11
22:00:00	23.21	13.11

	22:10:00	23.09	13.11
	22:20:00	23.04	13.11
	22:30:00	22.91	13.10
	22:40:00	22.81	13.10
	22:50:00	22.70	13.10
	23:00:00	22.63	13.10
	23:10:00	22.54	13.10
	23:20:00	22.46	13.09
	23:30:00	22.37	13.09
	23:40:00	22.33	13.09
	23:50:00	22.24	13.09
8/13/2009	0:00:00	22.15	13.09
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	0:20:00	21.97	13.08
	0:30:00	21.91	13.08
	0:40:00	21.89	13.08
	0:50:00	21.78	13.08
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	1:10:00	21.63	13.08
	1:20:00	21.55	13.08
	1:30:00	21.51	13.08
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	2:30:00	21.12	13.06
	2:40:00	21.09	13.06
	2:50:00	21.02	13.06
	3:00:00	20.97	13.05
	3:10:00	20.92	13.05
	3:20:00	20.90	13.04
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	4:10:00	20.60	13.05
	4:20:00	20.59	13.04
	4:30:00	20.52	13.04
	4:40:00	20.45	13.04
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	5:40:00	20.27	13.04
	5:50:00	20.22	13.04

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6:30:00	20.13	13.04
6:40:00	20.09	13.04
6:50:00	20.01	13.06
7:00:00	20.02	13.05
7:10:00	20.00	13.07
7:20:00	19.98	13.14
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7:40:00	19.98	13.32
7:50:00	19.96	13.41
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8:20:00	19.92	13.82
8:30:00	19.92	14.28
8:40:00	19.98	14.54
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9:00:00	19.82	15.00
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9:30:00	21.40	15.00
9:40:00	20.93	15.00
9:50:00	20.86	15.00
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10:20:00	21.05	15.00
10:30:00	21.26	14.91
10:40:00	21.44	14.87
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11:00:00	21.78	14.61
11:10:00	21.97	14.63
11:20:00	22.01	14.43
11:30:00	22.26	14.40
11:40:00	22.46	14.42
11:50:00	22.61	14.62
12:00:00	22.86	14.21
12:10:00	22.80	14.61
12:20:00	22.96	14.38
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12:40:00	23.31	14.54
12:50:00	23.59	14.19
13:00:00	23.83	14.48
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13:20:00	24.05	14.46
13:30:00	24.12	14.44
13:40:00	24.27	14.39



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14:10:00	24.64	14.23
14:20:00	24.53	14.36
14:30:00	23.16	13.99
14:40:00	21.90	14.27
14:50:00	21.98	14.29
15:00:00	22.18	14.32
15:10:00	22.25	14.28
15:20:00	22.47	14.21
15:30:00	22.49	14.22
15:40:00	22.46	14.16
15:50:00	22.62	14.15
16:00:00	22.65	14.12
16:10:00	22.72	14.09
16:20:00	22.76	14.09
16:30:00	22.76	14.06
16:40:00	22.96	14.04
16:50:00	23.05	14.01
17:00:00	23.05	13.98
17:10:00	23.20	13.97
17:20:00	23.31	13.97
17:30:00	23.33	13.92
17:40:00	23.45	13.89
17:50:00	23.52	13.90
18:00:00	23.57	13.90
18:10:00	23.64	13.89
18:20:00	23.66	13.90
18:30:00	23.68	13.90
18:40:00	23.66	13.88
18:50:00	23.68	13.87
19:00:00	23.64	13.88
19:10:00	23.64	13.83
19:20:00	23.55	13.78
19:30:00	23.55	13.77
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20:50:00	23.06	13.21
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21:20:00	22.93	13.09
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	22:10:00	22.82	13.10
	22:20:00	22.82	13.10
	22:30:00	22.75	13.10
	22:40:00	22.74	13.09
	22:50:00	22.76	13.09
	23:00:00	22.74	13.09
	23:10:00	22.70	13.09
	23:20:00	22.74	13.09
	23:30:00	22.71	13.09
	23:40:00	22.72	13.08
	23:50:00	22.65	13.08
8/14/2009	0:00:00	22.65	13.08
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	0:20:00	22.59	13.08
	0:30:00	22.54	13.07
	0:40:00	22.53	13.07
	0:50:00	22.51	13.07
	1:00:00	22.46	13.07
	1:10:00	22.42	13.07
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	1:40:00	22.32	13.07
	1:50:00	22.26	13.06
	2:00:00	22.22	13.06
	2:10:00	22.17	13.06
	2:20:00	22.11	13.06
	2:30:00	22.04	13.05
	2:40:00	21.98	13.05
	2:50:00	21.98	13.05
	3:00:00	21.91	13.05
	3:10:00	21.87	13.05
	3:20:00	21.78	13.05
	3:30:00	21.74	13.04
	3:40:00	21.71	13.04
	3:50:00	21.69	13.04
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	4:10:00	21.58	13.04
	4:20:00	21.56	13.04
	4:30:00	21.58	13.04
	4:40:00	21.49	13.03
	4:50:00	21.51	13.03
	5:00:00	21.41	13.03
	5:10:00	21.34	13.03
	5:20:00	21.32	13.03

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5:50:00	21.17	13.03
6:00:00	21.08	13.03
6:10:00	21.06	13.03
6:20:00	20.99	12.98
6:30:00	20.97	13.02
6:40:00	20.92	13.04
6:50:00	20.87	13.06
7:00:00	20.84	13.09
7:10:00	20.83	12.84
7:20:00	20.75	13.08
7:30:00	20.72	13.18
7:40:00	20.67	13.27
7:50:00	20.66	13.38
8:00:00	20.64	13.60
8:10:00	20.62	13.89
8:20:00	20.60	14.27
8:30:00	20.80	15.00
8:40:00	21.18	15.00
8:50:00	21.29	15.00
9:00:00	21.16	15.00
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9:20:00	21.16	15.00
9:30:00	20.84	15.00
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11:20:00	22.53	14.48
11:30:00	22.74	14.49
11:40:00	22.92	14.47
11:50:00	23.02	14.47
12:00:00	23.36	14.42
12:10:00	23.48	14.56
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12:30:00	23.95	14.48
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12:50:00	24.41	14.41
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13:10:00	24.03	14.36

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14:40:00	21.78	13.89
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15:50:00	22.50	14.07
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16:10:00	22.85	14.29
16:20:00	22.92	14.23
16:30:00	23.00	14.22
16:40:00	23.17	14.18
16:50:00	23.34	14.03
17:00:00	23.05	14.18
17:10:00	22.74	13.93
17:20:00	22.50	13.84
17:30:00	22.38	13.86
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17:50:00	22.39	13.95
18:00:00	22.29	13.86
18:10:00	22.17	13.85
18:20:00	22.13	13.88
18:30:00	22.09	13.92
18:40:00	22.10	13.91
18:50:00	22.04	13.89
19:00:00	22.10	13.86
19:10:00	22.02	13.83
19:20:00	22.05	13.82
19:30:00	22.03	13.77
19:40:00	21.98	13.71
19:50:00	21.91	13.66
20:00:00	21.94	13.60
20:10:00	21.87	13.52
20:20:00	21.80	13.44
20:30:00	21.78	13.36
20:40:00	21.78	13.28
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21:00:00	21.70	13.16

	21:10:00	21.65	13.11
	21:20:00	21.64	13.08
	21:30:00	21.53	13.07
	21:40:00	21.53	13.08
	21:50:00	21.46	13.09
	22:00:00	21.44	13.09
	22:10:00	21.35	13.09
	22:20:00	21.33	13.10
	22:30:00	21.29	13.09
	22:40:00	21.21	13.09
	22:50:00	21.17	13.09
	23:00:00	21.18	13.09
	23:10:00	21.08	13.09
	23:20:00	21.05	13.08
	23:30:00	21.02	13.08
	23:40:00	20.98	13.08
	23:50:00	20.97	13.08
8/15/2009	0:00:00	20.91	13.08
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	0:20:00	20.92	13.07
	0:30:00	20.88	13.06
	0:40:00	20.88	13.07
	0:50:00	20.86	13.07
	1:00:00	20.84	13.07
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	1:20:00	20.84	13.06
	1:30:00	20.85	13.06
	1:40:00	20.84	13.06
	1:50:00	20.81	13.05
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	2:10:00	20.79	13.05
	2:20:00	20.78	13.05
	2:30:00	20.79	13.05
	2:40:00	20.76	13.04
	2:50:00	20.72	13.05
	3:00:00	20.72	13.05
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	3:20:00	20.63	13.04
	3:30:00	20.63	13.03
	3:40:00	20.60	13.04
	3:50:00	20.56	13.03
	4:00:00	20.53	13.03
	4:10:00	20.50	13.03
	4:20:00	20.49	13.03
	4:30:00	20.48	13.03
	4:40:00	20.43	13.02
	4:50:00	20.42	13.03

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5:30:00	20.32	13.02
5:40:00	20.28	13.01
5:50:00	20.26	13.02
6:00:00	20.19	13.01
6:10:00	20.18	13.01
6:20:00	20.13	13.02
6:30:00	20.11	13.02
6:40:00	20.11	13.05
6:50:00	20.04	13.09
7:00:00	20.02	12.77
7:10:00	20.00	13.05
7:20:00	19.97	13.21
7:30:00	19.96	13.37
7:40:00	19.93	13.56
7:50:00	19.93	13.71
8:00:00	19.96	13.85
8:10:00	19.95	13.98
8:20:00	19.83	15.00
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8:40:00	20.73	15.00
8:50:00	20.73	15.00
9:00:00	20.61	15.00
9:10:00	20.18	15.00
9:20:00	20.42	15.00
9:30:00	20.49	14.72
9:40:00	20.55	14.79
9:50:00	20.49	15.00
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10:50:00	21.33	14.52
11:00:00	21.51	14.78
11:10:00	21.68	14.63
11:20:00	21.86	14.44
11:30:00	22.10	14.62
11:40:00	22.19	14.56
11:50:00	22.51	14.55
12:00:00	22.73	14.16
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12:20:00	23.11	14.51
12:30:00	23.43	14.53
12:40:00	23.65	14.35

12:50:00	23.85	14.43
13:00:00	23.49	14.42
13:10:00	23.25	14.42
13:20:00	23.05	14.39
13:30:00	21.70	14.36
13:40:00	21.29	14.32
13:50:00	21.57	13.88
14:00:00	21.94	14.19
14:10:00	21.89	14.39
14:20:00	22.04	14.31
14:30:00	22.17	14.23
14:40:00	22.18	14.23
14:50:00	22.08	14.22
15:00:00	22.28	13.88
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15:30:00	22.22	14.18
15:40:00	22.46	14.26
15:50:00	22.53	14.21
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16:10:00	22.81	14.14
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16:30:00	23.25	13.88
16:40:00	23.40	14.05
16:50:00	23.55	14.03
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17:20:00	23.80	13.92
17:30:00	23.89	13.92
17:40:00	23.99	13.81
17:50:00	24.04	13.74
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18:10:00	24.09	13.67
18:20:00	24.16	13.67
18:30:00	24.18	13.67
18:40:00	24.22	13.67
18:50:00	24.23	13.66
19:00:00	24.19	13.65
19:10:00	24.17	13.64
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19:30:00	24.08	13.62
19:40:00	23.99	13.59
19:50:00	23.92	13.57
20:00:00	23.93	13.54
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20:20:00	23.78	13.38
20:30:00	23.70	13.29

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	21:10:00	23.31	13.09
	21:20:00	23.24	13.09
	21:30:00	23.16	13.10
	21:40:00	23.10	13.11
	21:50:00	23.07	13.11
	22:00:00	22.94	13.10
	22:10:00	22.89	13.10
	22:20:00	22.83	13.10
	22:30:00	22.81	13.10
	22:40:00	22.72	13.10
	22:50:00	22.70	13.09
	23:00:00	22.66	13.09
	23:10:00	22.65	13.09
	23:20:00	22.59	13.09
	23:30:00	22.57	13.08
	23:40:00	22.52	13.07
	23:50:00	22.49	13.08
8/16/2009	0:00:00	22.40	13.08
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	1:50:00	21.93	13.05
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	2:50:00	21.68	13.03
	3:00:00	21.62	13.04
	3:10:00	21.56	13.04
	3:20:00	21.53	13.03
	3:30:00	21.49	13.03
	3:40:00	21.42	13.03
	3:50:00	21.39	13.03
	4:00:00	21.34	13.03
	4:10:00	21.26	13.03
	4:20:00	21.21	13.02



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5:00:00	21.00	13.02
5:10:00	20.94	13.02
5:20:00	20.91	13.01
5:30:00	20.86	13.01
5:40:00	20.79	13.01
5:50:00	20.74	13.01
6:00:00	20.68	13.01
6:10:00	20.61	13.01
6:20:00	20.59	13.01
6:30:00	20.52	13.01
6:40:00	20.49	13.03
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7:50:00	20.21	13.82
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8:10:00	20.13	13.97
8:20:00	19.92	15.00
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8:40:00	20.91	15.00
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9:50:00	20.84	15.00
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10:30:00	21.47	14.76
10:40:00	21.67	14.71
10:50:00	21.80	14.50
11:00:00	22.00	14.52
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11:20:00	22.46	14.54
11:30:00	22.61	14.53
11:40:00	22.83	14.48
11:50:00	23.08	14.62
12:00:00	23.29	14.47
12:10:00	23.49	14.47

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12:50:00	24.42	14.31
13:00:00	24.62	14.30
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13:20:00	25.07	14.25
13:30:00	25.20	14.23
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13:50:00	25.82	14.20
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14:10:00	26.32	14.16
14:20:00	26.48	14.15
14:30:00	26.57	14.13
14:40:00	26.67	14.13
14:50:00	26.63	14.11
15:00:00	24.94	14.10
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15:40:00	22.62	13.57
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17:00:00	22.36	14.12
17:10:00	22.36	14.09
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18:00:00	22.70	13.83
18:10:00	22.72	13.76
18:20:00	22.70	13.74
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18:50:00	22.68	13.73
19:00:00	22.65	13.71
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19:30:00	22.54	13.56
19:40:00	22.50	13.49
19:50:00	22.43	13.44
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	21:00:00	22.11	13.06
	21:10:00	22.08	13.05
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	21:50:00	21.93	13.07
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	22:40:00	21.79	13.07
	22:50:00	21.77	13.07
	23:00:00	21.75	13.07
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	23:20:00	21.70	13.07
	23:30:00	21.67	13.07
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	3:20:00	21.09	13.03
	3:30:00	21.06	13.03
	3:40:00	20.99	13.03
	3:50:00	21.00	13.03

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4:10:00	20.88	13.02
4:20:00	20.81	13.02
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10:50:00	21.66	14.51
11:00:00	21.73	14.53
11:10:00	21.93	14.51
11:20:00	22.17	14.49
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15:50:00	21.71	14.25
16:00:00	21.69	14.21
16:10:00	21.87	14.19
16:20:00	21.93	14.16
16:30:00	22.06	14.12
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16:50:00	22.09	13.78
17:00:00	22.06	14.02
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17:30:00	22.02	13.99
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17:50:00	21.98	13.89
18:00:00	22.03	13.86
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18:30:00	21.91	13.71
18:40:00	21.87	13.70
18:50:00	21.89	13.68
19:00:00	21.88	13.66
19:10:00	21.85	13.65
19:20:00	21.78	13.70
19:30:00	21.74	13.80

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	21:30:00	21.32	13.10
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	22:20:00	21.14	13.09
	22:30:00	21.09	13.10
	22:40:00	21.05	13.10
	22:50:00	20.99	13.09
	23:00:00	20.98	13.09
	23:10:00	20.95	13.08
	23:20:00	20.87	13.08
	23:30:00	20.82	13.08
	23:40:00	20.80	13.08
	23:50:00	20.83	13.08
8/18/2009	0:00:00	20.73	13.08
	0:10:00	20.74	13.08
	0:20:00	20.72	13.06
	0:30:00	20.68	13.06
	0:40:00	20.64	13.07
	0:50:00	20.62	13.06
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	2:20:00	20.51	13.04
	2:30:00	20.49	13.03
	2:40:00	20.49	13.04
	2:50:00	20.46	13.04
	3:00:00	20.48	13.03
	3:10:00	20.45	13.02
	3:20:00	20.45	13.02

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3:40:00	20.39	13.03
3:50:00	20.37	13.01
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4:10:00	20.29	13.02
4:20:00	20.29	13.02
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6:20:00	20.03	13.00
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6:40:00	19.95	13.03
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7:00:00	19.92	13.02
7:10:00	19.91	13.14
7:20:00	19.89	13.24
7:30:00	19.91	13.50
7:40:00	19.89	13.74
7:50:00	19.91	13.85
8:00:00	19.92	13.92
8:10:00	19.96	14.68
8:20:00	19.96	14.79
8:30:00	20.00	15.00
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8:50:00	19.88	15.00
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9:10:00	21.10	15.00
9:20:00	20.75	15.00
9:30:00	20.64	15.00
9:40:00	20.87	15.00
9:50:00	20.82	15.00
10:00:00	20.97	14.40
10:10:00	21.04	14.91
10:20:00	21.17	14.44
10:30:00	21.23	14.37
10:40:00	21.30	14.47
10:50:00	21.43	14.63
11:00:00	21.61	14.53
11:10:00	21.82	14.50

11:20:00	22.02	14.42
11:30:00	22.21	14.77
11:40:00	22.41	14.56
11:50:00	22.59	14.41
12:00:00	22.68	14.43
12:10:00	22.51	14.12
12:20:00	22.85	14.47
12:30:00	22.97	14.00
12:40:00	22.84	13.70
12:50:00	22.93	13.60
13:00:00	22.89	13.81
13:10:00	22.98	14.18
13:20:00	23.07	14.45
13:30:00	23.34	14.35
13:40:00	23.45	14.14
13:50:00	23.43	14.14
14:00:00	23.39	14.20
14:10:00	23.44	14.16
14:20:00	23.37	14.56
14:30:00	23.11	14.48
14:40:00	22.97	14.28
14:50:00	22.27	14.36
15:00:00	20.86	14.40
15:10:00	20.40	14.58
15:20:00	20.58	14.43
15:30:00	20.80	14.32
15:40:00	20.78	14.36
15:50:00	20.96	15.00
16:00:00	21.02	14.22
16:10:00	21.06	13.99
16:20:00	21.04	14.21
16:30:00	21.21	14.30
16:40:00	21.25	14.06
16:50:00	21.29	14.05
17:00:00	21.30	14.02
17:10:00	21.34	14.12
17:20:00	21.41	14.10
17:30:00	21.43	14.04
17:40:00	21.50	14.01
17:50:00	21.55	13.93
18:00:00	21.58	14.01
18:10:00	21.62	14.00
18:20:00	21.66	13.97
18:30:00	21.74	14.02
18:40:00	21.71	13.97
18:50:00	21.74	13.92
19:00:00	21.76	13.98



	19:10:00	21.78	13.94
	19:20:00	21.79	13.94
	19:30:00	21.76	13.86
	19:40:00	21.79	13.74
	19:50:00	21.79	13.61
	20:00:00	21.79	13.51
	20:10:00	21.74	13.42
	20:20:00	21.76	13.35
	20:30:00	21.69	13.27
	20:40:00	21.69	13.20
	20:50:00	21.65	13.14
	21:00:00	21.67	13.10
	21:10:00	21.63	13.09
	21:20:00	21.58	13.10
	21:30:00	21.59	13.10
	21:40:00	21.55	13.12
	21:50:00	21.53	13.12
	22:00:00	21.50	13.12
	22:10:00	21.52	13.12
	22:20:00	21.47	13.12
	22:30:00	21.47	13.12
	22:40:00	21.47	13.12
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	23:00:00	21.44	13.12
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	23:50:00	21.32	13.10
8/19/2009	0:00:00	21.34	13.10
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	0:20:00	21.33	13.10
	0:30:00	21.30	13.09
	0:40:00	21.27	13.09
	0:50:00	21.29	13.09
	1:00:00	21.27	13.08
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	1:20:00	21.27	13.08
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	1:40:00	21.19	13.07
	1:50:00	21.17	13.07
	2:00:00	21.15	13.07
	2:10:00	21.15	13.06
	2:20:00	21.15	13.05
	2:30:00	21.11	13.06
	2:40:00	21.11	13.05
	2:50:00	21.08	13.05

3:00:00	21.08	13.04
3:10:00	21.07	13.04
3:20:00	21.07	13.04
3:30:00	21.04	13.03
3:40:00	20.99	13.04
3:50:00	20.96	13.03
4:00:00	20.97	13.03
4:10:00	20.95	13.03
4:20:00	20.94	13.03
4:30:00	20.91	13.02
4:40:00	20.86	13.02
4:50:00	20.82	13.02
5:00:00	20.78	13.02
5:10:00	20.79	13.02
5:20:00	20.74	13.03
5:30:00	20.71	13.02
5:40:00	20.70	13.02
5:50:00	20.63	13.02
6:00:00	20.63	13.03
6:10:00	20.57	13.02
6:20:00	20.56	13.02
6:30:00	20.50	13.02
6:40:00	20.49	13.04
6:50:00	20.47	13.04
7:00:00	20.42	13.04
7:10:00	20.43	13.11
7:20:00	20.38	13.12
7:30:00	20.36	13.11
7:40:00	20.34	13.16
7:50:00	20.37	13.22
8:00:00	20.32	13.42
8:10:00	20.32	13.61
8:20:00	20.35	13.74
8:30:00	20.40	13.90
8:40:00	20.42	13.77
8:50:00	20.43	13.83
9:00:00	20.47	13.77
9:10:00	20.48	13.43
9:20:00	20.57	14.03
9:30:00	20.60	15.00
9:40:00	20.60	14.79
9:50:00	21.34	15.00
10:00:00	20.79	15.00
10:10:00	20.92	15.00
10:20:00	20.97	14.52
10:30:00	21.87	15.00
10:40:00	21.19	14.39

10:50:00	21.30	14.62
11:00:00	21.41	15.00
11:10:00	21.59	14.56
11:20:00	21.66	14.03
11:30:00	21.82	14.79
11:40:00	22.00	15.00
11:50:00	22.10	14.67
12:00:00	22.46	14.74
12:10:00	22.68	14.28
12:20:00	22.74	14.09
12:30:00	22.92	14.73
12:40:00	23.23	14.31
12:50:00	23.36	14.31
13:00:00	23.56	14.61
13:10:00	23.84	14.54
13:20:00	24.05	14.54
13:30:00	24.16	14.54
13:40:00	24.47	14.45
13:50:00	24.70	13.98
14:00:00	24.89	14.42
14:10:00	25.13	13.98
14:20:00	25.25	14.33
14:30:00	25.13	14.37
14:40:00	24.90	14.26
14:50:00	25.00	14.33
15:00:00	24.02	14.22
15:10:00	22.62	14.03
15:20:00	22.51	14.20
15:30:00	22.56	13.97
15:40:00	22.57	13.95
15:50:00	22.57	14.23
16:00:00	22.43	14.08
16:10:00	22.64	13.93
16:20:00	22.47	13.71
16:30:00	22.58	13.90
16:40:00	22.78	14.12
16:50:00	22.83	13.86
17:00:00	22.80	13.75
17:10:00	22.81	13.80
17:20:00	22.89	13.86
17:30:00	22.99	13.81
17:40:00	23.05	13.73
17:50:00	23.11	13.74
18:00:00	23.15	13.73
18:10:00	23.15	13.72
18:20:00	23.15	13.71
18:30:00	23.13	13.67

	18:40:00	23.16	13.67
	18:50:00	23.22	13.71
	19:00:00	23.25	13.82
	19:10:00	23.25	13.92
	19:20:00	23.18	13.82
	19:30:00	23.16	13.75
	19:40:00	23.17	13.66
	19:50:00	23.07	13.58
	20:00:00	23.05	13.49
	20:10:00	23.05	13.41
	20:20:00	22.96	13.33
	20:30:00	22.85	13.25
	20:40:00	22.85	13.19
	20:50:00	22.83	13.13
	21:00:00	22.74	13.09
	21:10:00	22.72	13.07
	21:20:00	22.68	13.08
	21:30:00	22.61	13.09
	21:40:00	22.60	13.10
	21:50:00	22.52	13.10
	22:00:00	22.50	13.10
	22:10:00	22.48	13.11
	22:20:00	22.43	13.11
	22:30:00	22.45	13.11
	22:40:00	22.39	13.10
	22:50:00	22.40	13.11
	23:00:00	22.37	13.10
	23:10:00	22.41	13.10
	23:20:00	22.37	13.10
	23:30:00	22.37	13.10
	23:40:00	22.40	13.10
	23:50:00	22.34	13.10
8/20/2009	0:00:00	22.35	13.09
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	0:20:00	22.37	13.09
	0:30:00	22.37	13.09
	0:40:00	22.35	13.09
	0:50:00	22.35	13.08
	1:00:00	22.35	13.08
	1:10:00	22.33	13.08
	1:20:00	22.26	13.08
	1:30:00	22.26	13.08
	1:40:00	22.24	13.07
	1:50:00	22.24	13.07
	2:00:00	22.17	13.07
	2:10:00	22.15	13.07
	2:20:00	22.11	13.06

2:30:00	22.08	13.06
2:40:00	22.03	13.06
2:50:00	21.98	13.06
3:00:00	21.99	13.05
3:10:00	21.97	13.05
3:20:00	21.92	13.05
3:30:00	21.86	13.05
3:40:00	21.83	13.05
3:50:00	21.81	13.04
4:00:00	21.73	13.04
4:10:00	21.69	13.04
4:20:00	21.63	13.04
4:30:00	21.57	13.03
4:40:00	21.53	13.03
4:50:00	21.51	13.02
5:00:00	21.45	13.02
5:10:00	21.40	13.02
5:20:00	21.38	13.02
5:30:00	21.35	13.01
5:40:00	21.30	13.01
5:50:00	21.27	13.02
6:00:00	21.21	13.01
6:10:00	21.17	13.01
6:20:00	21.12	13.01
6:30:00	21.08	13.01
6:40:00	21.08	13.03
6:50:00	21.02	12.93
7:00:00	21.03	12.97
7:10:00	21.03	13.05
7:20:00	20.94	13.14
7:30:00	20.97	13.32
7:40:00	20.95	13.49
7:50:00	21.00	13.59
8:00:00	20.96	13.63
8:10:00	20.96	13.70
8:20:00	20.98	13.76
8:30:00	21.00	13.77
8:40:00	21.03	13.74
8:50:00	20.98	13.91
9:00:00	21.02	13.72
9:10:00	21.03	15.00
9:20:00	21.10	13.49
9:30:00	21.08	13.87
9:40:00	21.15	14.04
9:50:00	21.17	14.24
10:00:00	21.18	14.73
10:10:00	21.08	15.00

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10:30:00	21.41	15.00
10:40:00	21.43	15.00
10:50:00	21.52	15.00
11:00:00	22.03	15.00
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11:20:00	21.90	14.66
11:30:00	22.03	14.90
11:40:00	22.17	14.48
11:50:00	22.34	14.30
12:00:00	22.48	14.44
12:10:00	22.59	14.62
12:20:00	22.73	15.00
12:30:00	23.17	15.00
12:40:00	23.41	14.60
12:50:00	23.54	13.88
13:00:00	23.65	14.66
13:10:00	23.78	14.21
13:20:00	23.83	14.19
13:30:00	23.96	14.45
13:40:00	24.03	14.28
13:50:00	24.23	14.14
14:00:00	24.11	15.00
14:10:00	24.46	15.00
14:20:00	24.59	14.21
14:30:00	24.61	14.16
14:40:00	24.70	14.34
14:50:00	24.83	14.76
15:00:00	24.99	14.07
15:10:00	25.07	14.19
15:20:00	25.32	14.22
15:30:00	25.23	14.05
15:40:00	25.66	14.56
15:50:00	25.95	14.41
16:00:00	26.04	14.41
16:10:00	26.19	14.12
16:20:00	26.37	14.35
16:30:00	25.99	14.30
16:40:00	24.77	14.26
16:50:00	22.86	14.20
17:00:00	22.54	14.17
17:10:00	22.66	14.08
17:20:00	22.62	14.12
17:30:00	22.56	13.97
17:40:00	22.35	13.93
17:50:00	22.36	13.77
18:00:00	22.30	13.77

18:10:00	22.22	13.80
18:20:00	22.15	13.70
18:30:00	22.15	13.72
18:40:00	22.11	13.67
18:50:00	22.05	13.62
19:00:00	22.02	13.58
19:10:00	22.00	13.54
19:20:00	21.97	13.49
19:30:00	21.89	13.42
19:40:00	21.85	13.35
19:50:00	21.83	13.27
20:00:00	21.78	13.22
20:10:00	21.76	13.16
20:20:00	21.69	13.12
20:30:00	21.67	13.11
20:40:00	21.63	13.12
20:50:00	21.61	13.13
21:00:00	21.57	13.14
21:10:00	21.50	13.14
21:20:00	21.51	13.14
21:30:00	21.47	13.14
21:40:00	21.42	13.14
21:50:00	21.41	13.13
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23:10:00	21.27	13.11
23:20:00	21.26	13.11
23:30:00	21.25	13.11
23:40:00	21.20	13.10
23:50:00	21.20	13.10
0:00:00	21.16	13.10
0:10:00	21.14	13.10
0:20:00	21.14	13.08
0:30:00	21.11	13.09
0:40:00	21.05	13.09
0:50:00	21.12	13.08
1:00:00	21.10	13.08
1:10:00	21.09	13.08
1:20:00	21.06	13.08
1:30:00	21.08	13.07
1:40:00	21.10	13.07
1:50:00	21.10	13.06

8/21/2009

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2:20:00	21.17	13.05
2:30:00	21.17	13.05
2:40:00	21.17	13.05
2:50:00	21.16	13.05
3:00:00	21.16	13.05
3:10:00	21.18	13.04
3:20:00	21.16	13.04
3:30:00	21.17	13.04
3:40:00	21.19	13.03
3:50:00	21.19	13.03
4:00:00	21.17	13.03
4:10:00	21.17	13.02
4:20:00	21.19	13.02
4:30:00	21.19	13.01
4:40:00	21.19	13.01
4:50:00	21.19	13.01
5:00:00	21.19	13.01
5:10:00	21.17	13.01
5:20:00	21.19	13.01
5:30:00	21.17	13.00
5:40:00	21.20	13.01
5:50:00	21.21	13.01
6:00:00	21.21	13.01
6:10:00	21.19	13.01
6:20:00	21.21	13.01
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6:40:00	21.19	13.01
6:50:00	21.22	12.95
7:00:00	21.22	13.03
7:10:00	21.20	13.03
7:20:00	21.25	13.04
7:30:00	21.22	13.05
7:40:00	21.20	13.06
7:50:00	21.22	13.06
8:00:00	21.25	13.06
8:10:00	21.22	13.06
8:20:00	21.18	13.09
8:30:00	21.19	13.12
8:40:00	21.21	13.15
8:50:00	21.21	13.28
9:00:00	21.25	13.37
9:10:00	21.23	13.09
9:20:00	21.21	13.06
9:30:00	21.22	13.18
9:40:00	21.21	13.26



9:50:00	21.22	13.26
10:00:00	21.22	13.33
10:10:00	21.15	13.37
10:20:00	21.19	13.49
10:30:00	21.21	13.74
10:40:00	21.33	14.08
10:50:00	21.34	14.05
11:00:00	21.19	15.00
11:10:00	21.46	15.00
11:20:00	21.28	15.00
11:30:00	21.33	15.00
11:40:00	21.43	15.01
11:50:00	21.71	15.00
12:00:00	21.80	14.62
12:10:00	21.82	14.52
12:20:00	21.94	15.00
12:30:00	23.39	15.00
12:40:00	22.25	14.59
12:50:00	22.38	14.61
13:00:00	22.38	14.81
13:10:00	22.40	15.00
13:20:00	22.35	14.73
13:30:00	21.43	14.84
13:40:00	20.64	14.70
13:50:00	21.04	14.66
14:00:00	21.43	14.63
14:10:00	21.58	14.58
14:20:00	21.65	14.61
14:30:00	21.91	14.28
14:40:00	22.02	14.49
14:50:00	22.28	14.46
15:00:00	22.39	14.41
15:10:00	22.33	14.34
15:20:00	22.48	14.38
15:30:00	22.41	14.36
15:40:00	22.52	14.02
15:50:00	22.50	14.03
16:00:00	22.70	14.32
16:10:00	22.81	14.31
16:20:00	23.09	14.25
16:30:00	23.26	14.10
16:40:00	23.31	14.08
16:50:00	23.31	14.17
17:00:00	23.41	14.11
17:10:00	23.47	13.96
17:20:00	23.71	14.00
17:30:00	23.57	13.84

	17:40:00	23.75	13.85
	17:50:00	23.63	13.85
	18:00:00	23.70	13.80
	18:10:00	23.70	13.72
	18:20:00	23.70	13.65
	18:30:00	23.66	13.65
	18:40:00	23.70	13.63
	18:50:00	23.66	13.58
	19:00:00	23.66	13.56
	19:10:00	23.59	13.50
	19:20:00	23.61	13.46
	19:30:00	23.53	13.42
	19:40:00	23.44	13.37
	19:50:00	23.42	13.32
	20:00:00	23.22	13.27
	20:10:00	23.24	13.21
	20:20:00	23.18	13.16
	20:30:00	23.13	13.11
	20:40:00	23.07	13.09
	20:50:00	23.07	13.10
	21:00:00	23.05	13.12
	21:10:00	23.06	13.13
	21:20:00	23.00	13.13
	21:30:00	22.98	13.13
	21:40:00	23.00	13.13
	21:50:00	23.00	13.13
	22:00:00	23.00	13.13
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	22:40:00	22.99	13.12
	22:50:00	22.94	13.12
	23:00:00	22.92	13.12
	23:10:00	22.94	13.11
	23:20:00	22.91	13.10
	23:30:00	22.84	13.11
	23:40:00	22.78	13.11
	23:50:00	22.73	13.11
8/22/2009	0:00:00	22.70	13.11
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	0:20:00	22.54	13.10
	0:30:00	22.53	13.10
	0:40:00	22.49	13.10
	0:50:00	22.41	13.10
	1:00:00	22.37	13.09
	1:10:00	22.35	13.09
	1:20:00	22.36	13.09

1:30:00	22.25	13.09
1:40:00	22.22	13.07
1:50:00	22.21	13.07
2:00:00	22.16	13.08
2:10:00	22.14	13.08
2:20:00	22.09	13.08
2:30:00	22.05	13.07
2:40:00	22.00	13.07
2:50:00	21.99	13.06
3:00:00	21.99	13.06
3:10:00	21.95	13.06
3:20:00	21.94	13.05
3:30:00	21.90	13.05
3:40:00	21.89	13.05
3:50:00	21.85	13.04
4:00:00	21.82	13.04
4:10:00	21.79	13.04
4:20:00	21.75	13.03
4:30:00	21.74	13.03
4:40:00	21.74	13.03
4:50:00	21.70	13.02
5:00:00	21.68	13.02
5:10:00	21.68	13.02
5:20:00	21.67	13.01
5:30:00	21.61	13.01
5:40:00	21.58	13.01
5:50:00	21.56	13.01
6:00:00	21.51	13.01
6:10:00	21.51	13.01
6:20:00	21.51	13.00
6:30:00	21.45	13.00
6:40:00	21.45	13.01
6:50:00	21.45	13.01
7:00:00	21.46	13.01
7:10:00	21.47	13.08
7:20:00	21.45	13.10
7:30:00	21.49	13.23
7:40:00	21.46	13.28
7:50:00	21.46	13.37
8:00:00	21.52	13.57
8:10:00	21.52	13.70
8:20:00	21.50	15.00
8:30:00	21.54	15.00
8:40:00	21.38	15.00
8:50:00	21.48	15.00
9:00:00	21.69	15.00
9:10:00	21.74	15.00

9:20:00	22.18	15.00
9:30:00	21.61	15.00
9:40:00	21.89	14.71
9:50:00	21.96	14.63
10:00:00	22.02	14.70
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10:20:00	22.10	14.59
10:30:00	22.16	14.53
10:40:00	22.23	14.72
10:50:00	22.25	14.60
11:00:00	22.30	14.80
11:10:00	22.39	14.74
11:20:00	22.48	14.61
11:30:00	22.57	14.62
11:40:00	22.68	14.58
11:50:00	22.74	14.42
12:00:00	22.76	14.48
12:10:00	22.87	14.39
12:20:00	22.91	14.39
12:30:00	23.01	14.29
12:40:00	23.02	14.33
12:50:00	22.98	14.26
13:00:00	23.09	14.32
13:10:00	23.05	14.28
13:20:00	22.63	14.41
13:30:00	20.84	14.40
13:40:00	20.49	14.52
13:50:00	20.80	14.64
14:00:00	20.92	14.61
14:10:00	21.12	14.57
14:20:00	21.19	14.54
14:30:00	21.28	14.43
14:40:00	21.36	14.46
14:50:00	21.50	14.52
15:00:00	21.50	14.29
15:10:00	21.56	14.29
15:20:00	21.49	14.43
15:30:00	21.63	14.34
15:40:00	21.64	14.18
15:50:00	21.73	14.46
16:00:00	21.80	14.53
16:10:00	22.02	14.54
16:20:00	22.22	14.42
16:30:00	22.35	14.35
16:40:00	22.33	14.01
16:50:00	22.30	14.12
17:00:00	22.46	14.20

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17:20:00	22.63	13.94
17:30:00	22.70	13.88
17:40:00	22.78	14.00
17:50:00	22.81	14.04
18:00:00	22.83	13.98
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18:20:00	22.88	13.91
18:30:00	22.97	13.94
18:40:00	22.96	14.01
18:50:00	23.01	13.96
19:00:00	23.02	13.91
19:10:00	23.05	13.90
19:20:00	23.02	13.91
19:30:00	23.10	13.83
19:40:00	23.15	13.75
19:50:00	23.13	13.67
20:00:00	23.13	13.59
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20:20:00	23.12	13.42
20:30:00	23.09	13.34
20:40:00	23.05	13.27
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21:00:00	23.04	13.16
21:10:00	22.98	13.11
21:20:00	23.00	13.09
21:30:00	22.94	13.10
21:40:00	22.92	13.11
21:50:00	22.87	13.12
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22:20:00	22.75	13.13
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22:40:00	22.69	13.13
22:50:00	22.62	13.12
23:00:00	22.58	13.12
23:10:00	22.53	13.12
23:20:00	22.43	13.12
23:30:00	22.40	13.12
23:40:00	22.35	13.11
23:50:00	22.30	13.11
8/23/2009 0:00:00	22.21	13.11
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0:40:00	22.01	13.09
0:50:00	21.92	13.10

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1:30:00	21.69	13.08
1:40:00	21.63	13.09
1:50:00	21.61	13.09
2:00:00	21.57	13.08
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2:20:00	21.47	13.08
2:30:00	21.47	13.07
2:40:00	21.46	13.06
2:50:00	21.34	13.06
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3:10:00	21.33	13.05
3:20:00	21.34	13.06
3:30:00	21.29	13.05
3:40:00	21.23	13.05
3:50:00	21.21	13.05
4:00:00	21.15	13.04
4:10:00	21.15	13.04
4:20:00	21.12	13.04
4:30:00	21.09	13.04
4:40:00	21.06	13.03
4:50:00	21.02	13.03
5:00:00	21.04	13.03
5:10:00	20.98	13.02
5:20:00	20.93	13.02
5:30:00	20.95	13.01
5:40:00	20.92	13.01
5:50:00	20.87	13.01
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6:10:00	20.83	13.00
6:20:00	20.81	13.00
6:30:00	20.76	13.00
6:40:00	20.74	13.00
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7:30:00	20.66	13.27
7:40:00	20.67	13.54
7:50:00	20.66	13.79
8:00:00	20.70	13.84
8:10:00	20.68	13.86
8:20:00	20.63	13.77
8:30:00	20.67	13.92
8:40:00	20.69	13.83

8:50:00	20.66	14.05
9:00:00	20.73	15.00
9:10:00	20.72	15.00
9:20:00	20.76	14.65
9:30:00	20.58	15.00
9:40:00	20.87	14.42
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10:00:00	20.90	14.43
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10:20:00	20.92	14.54
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10:40:00	20.99	14.49
10:50:00	21.09	15.00
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11:10:00	21.19	15.00
11:20:00	21.67	15.00
11:30:00	21.39	14.69
11:40:00	21.50	14.66
11:50:00	21.58	14.48
12:00:00	21.55	15.00
12:10:00	21.88	14.44
12:20:00	21.82	15.00
12:30:00	22.16	14.65
12:40:00	22.27	14.05
12:50:00	22.26	15.00
13:00:00	22.60	14.22
13:10:00	22.58	14.36
13:20:00	22.71	14.40
13:30:00	22.84	14.34
13:40:00	22.81	14.13
13:50:00	22.84	14.69
14:00:00	23.05	14.16
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14:20:00	23.06	14.19
14:30:00	23.08	14.12
14:40:00	23.08	15.00
14:50:00	23.22	14.41
15:00:00	23.61	14.67
15:10:00	23.70	14.61
15:20:00	23.77	14.09
15:30:00	23.81	14.77
15:40:00	23.92	14.56
15:50:00	24.09	14.30
16:00:00	24.02	14.18
16:10:00	24.27	14.13
16:20:00	24.27	13.63
16:30:00	24.24	13.96

16:40:00	24.25	13.90
16:50:00	24.25	14.17
17:00:00	24.43	14.34
17:10:00	24.53	14.37
17:20:00	24.58	14.22
17:30:00	24.60	14.11
17:40:00	24.55	14.04
17:50:00	24.49	14.09
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18:20:00	24.31	13.92
18:30:00	24.29	13.89
18:40:00	24.23	13.86
18:50:00	24.20	13.84
19:00:00	24.12	13.81
19:10:00	24.09	13.78
19:20:00	23.99	13.73
19:30:00	23.94	13.68
19:40:00	23.85	13.62
19:50:00	23.78	13.56
20:00:00	23.66	13.49
20:10:00	23.55	13.41
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20:30:00	23.35	13.28
20:40:00	23.25	13.22
20:50:00	23.18	13.16
21:00:00	23.07	13.11
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21:20:00	22.93	13.08
21:30:00	22.80	13.09
21:40:00	22.77	13.10
21:50:00	22.68	13.11
22:00:00	22.59	13.11
22:10:00	22.48	13.11
22:20:00	22.37	13.11
22:30:00	22.29	13.10
22:40:00	22.18	13.11
22:50:00	22.05	13.10
23:00:00	22.01	13.10
23:10:00	21.87	13.11
23:20:00	21.79	13.11
23:30:00	21.73	13.10
23:40:00	21.64	13.09
23:50:00	21.54	13.09
8/24/2009 0:00:00	21.45	13.09
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0:40:00	21.09	13.09
0:50:00	21.07	13.07
1:00:00	20.98	13.07
1:10:00	20.92	13.07
1:20:00	20.82	13.07
1:30:00	20.78	13.08
1:40:00	20.71	13.07
1:50:00	20.64	13.07
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2:20:00	20.40	13.06
2:30:00	20.29	13.06
2:40:00	20.27	13.06
2:50:00	20.23	13.06
3:00:00	20.16	13.04
3:10:00	20.03	13.05
3:20:00	19.95	13.04
3:30:00	19.95	13.04
3:40:00	19.87	13.03
3:50:00	19.80	13.03
4:00:00	19.76	13.03
4:10:00	19.72	13.03
4:20:00	19.64	13.03
4:30:00	19.63	13.02
4:40:00	19.61	13.02
4:50:00	19.52	13.01
5:00:00	19.48	13.00
5:10:00	19.41	13.01
5:20:00	19.38	13.00
5:30:00	19.37	12.99
5:40:00	19.31	12.99
5:50:00	19.26	12.98
6:00:00	19.22	12.99
6:10:00	19.20	12.98
6:20:00	19.20	12.98
6:30:00	19.20	12.93
6:40:00	19.13	12.96
6:50:00	19.10	12.97
7:00:00	19.13	12.99
7:10:00	19.05	12.97
7:20:00	19.07	13.04
7:30:00	19.08	13.07
7:40:00	18.98	13.16
7:50:00	19.03	13.27
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8:10:00	19.03	13.43

8:20:00	19.02	13.62
8:30:00	19.03	13.80
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8:50:00	19.08	14.09
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9:20:00	19.14	13.72
9:30:00	19.17	14.93
9:40:00	18.98	15.00
9:50:00	19.80	15.00
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11:00:00	20.17	15.00
11:10:00	20.40	14.64
11:20:00	20.49	14.81
11:30:00	20.64	14.75
11:40:00	20.78	14.57
11:50:00	20.91	14.74
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12:40:00	21.74	14.64
12:50:00	21.85	14.60
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13:10:00	21.80	14.60
13:20:00	21.50	14.19
13:30:00	20.49	14.65
13:40:00	20.20	14.25
13:50:00	20.39	14.20
14:00:00	20.85	14.11
14:10:00	21.06	14.62
14:20:00	21.26	14.56
14:30:00	21.45	14.18
14:40:00	21.54	14.09
14:50:00	21.56	14.57
15:00:00	21.78	14.50
15:10:00	21.85	14.07
15:20:00	21.82	14.45
15:30:00	21.95	13.97
15:40:00	21.85	14.03
15:50:00	22.00	14.03
16:00:00	22.03	14.21

16:10:00	22.22	14.34
16:20:00	22.17	13.95
16:30:00	22.26	14.12
16:40:00	22.39	14.26
16:50:00	22.50	14.21
17:00:00	22.63	14.14
17:10:00	22.61	14.03
17:20:00	22.52	13.89
17:30:00	22.59	13.99
17:40:00	22.76	13.93
17:50:00	22.78	13.87
18:00:00	22.78	13.81
18:10:00	22.83	13.76
18:20:00	22.81	13.74
18:30:00	22.74	13.71
18:40:00	22.72	13.70
18:50:00	22.68	13.69
19:00:00	22.59	13.66
19:10:00	22.57	13.64
19:20:00	22.50	13.60
19:30:00	22.45	13.57
19:40:00	22.37	13.52
19:50:00	22.28	13.47
20:00:00	22.18	13.41
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20:20:00	21.98	13.27
20:30:00	21.93	13.21
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20:50:00	21.67	13.11
21:00:00	21.58	13.07
21:10:00	21.47	13.07
21:20:00	21.40	13.08
21:30:00	21.33	13.09
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21:50:00	21.15	13.10
22:00:00	21.02	13.10
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22:20:00	20.92	13.09
22:30:00	20.87	13.09
22:40:00	20.78	13.09
22:50:00	20.75	13.09
23:00:00	20.67	13.07
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23:20:00	20.57	13.08
23:30:00	20.45	13.08
23:40:00	20.43	13.08
23:50:00	20.37	13.08

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	0:30:00	20.14	13.06
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	0:50:00	20.04	13.06
	1:00:00	19.96	13.05
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	1:20:00	19.86	13.05
	1:30:00	19.85	13.05
	1:40:00	19.75	13.05
	1:50:00	19.69	13.05
	2:00:00	19.65	13.03
	2:10:00	19.60	13.04
	2:20:00	19.54	13.04
	2:30:00	19.45	13.03
	2:40:00	19.43	13.03
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	3:00:00	19.32	13.03
	3:10:00	19.26	13.01
	3:20:00	19.21	13.02
	3:30:00	19.15	13.01
	3:40:00	19.08	13.02
	3:50:00	19.04	13.01
	4:00:00	19.00	13.01
	4:10:00	18.91	13.00
	4:20:00	18.91	13.00
	4:30:00	18.82	12.99
	4:40:00	18.73	13.00
	4:50:00	18.73	12.99
	5:00:00	18.63	12.99
	5:10:00	18.61	12.99
	5:20:00	18.53	12.97
	5:30:00	18.47	12.98
	5:40:00	18.39	12.98
	5:50:00	18.39	12.97
	6:00:00	18.34	12.96
	6:10:00	18.30	12.97
	6:20:00	18.27	12.96
	6:30:00	18.23	12.97
	6:40:00	18.21	12.96
	6:50:00	18.14	12.98
	7:00:00	18.10	12.97
	7:10:00	18.06	13.02
	7:20:00	18.03	13.07
	7:30:00	18.00	13.06
	7:40:00	18.01	13.19

7:50:00	17.94	13.32
8:00:00	17.98	13.47
8:10:00	17.94	13.64
8:20:00	17.94	13.77
8:30:00	18.01	13.98
8:40:00	17.85	15.00
8:50:00	18.67	15.00
9:00:00	19.14	15.00
9:10:00	18.11	15.00
9:20:00	18.90	15.00
9:30:00	18.32	15.00
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10:50:00	19.60	14.82
11:00:00	19.79	14.75
11:10:00	20.01	14.50
11:20:00	20.11	14.52
11:30:00	20.43	14.39
11:40:00	20.49	14.25
11:50:00	20.68	14.33
12:00:00	20.81	14.24
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12:40:00	21.32	14.56
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13:10:00	21.65	14.00
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13:30:00	22.02	13.95
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14:10:00	22.71	14.43
14:20:00	22.94	14.32
14:30:00	23.10	14.38
14:40:00	23.20	14.33
14:50:00	23.44	14.32
15:00:00	23.61	13.79
15:10:00	23.83	14.31
15:20:00	24.04	14.00
15:30:00	24.26	14.23

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15:50:00	24.52	14.17
16:00:00	24.71	14.15
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16:20:00	25.01	14.11
16:30:00	25.11	14.09
16:40:00	25.31	14.06
16:50:00	25.45	14.02
17:00:00	25.51	13.99
17:10:00	25.58	13.95
17:20:00	25.68	13.91
17:30:00	25.78	13.86
17:40:00	25.82	13.80
17:50:00	25.79	13.74
18:00:00	25.84	13.68
18:10:00	25.95	13.64
18:20:00	25.97	13.62
18:30:00	26.02	13.61
18:40:00	25.98	13.59
18:50:00	25.94	13.59
19:00:00	25.91	13.56
19:10:00	25.82	13.53
19:20:00	25.80	13.50
19:30:00	25.73	13.46
19:40:00	25.70	13.42
19:50:00	25.56	13.36
20:00:00	25.43	13.30
20:10:00	25.32	13.23
20:20:00	25.14	13.17
20:30:00	25.01	13.12
20:40:00	24.84	13.08
20:50:00	24.70	13.07
21:00:00	24.58	13.08
21:10:00	24.38	13.09
21:20:00	24.29	13.09
21:30:00	24.13	13.09
21:40:00	23.93	13.09
21:50:00	23.84	13.09
22:00:00	23.68	13.09
22:10:00	23.53	13.09
22:20:00	23.42	13.09
22:30:00	23.29	13.08
22:40:00	23.16	13.08
22:50:00	23.05	13.08
23:00:00	22.89	13.08
23:10:00	22.80	13.08
23:20:00	22.70	13.07

	23:30:00	22.54	13.07
	23:40:00	22.43	13.07
	23:50:00	22.34	13.06
8/26/2009	0:00:00	22.22	13.06
	0:10:00	22.08	13.06
	0:20:00	21.98	13.06
	0:30:00	21.85	13.05
	0:40:00	21.78	13.05
	0:50:00	21.66	13.05
	1:00:00	21.59	13.03
	1:10:00	21.46	13.04
	1:20:00	21.35	13.03
	1:30:00	21.25	13.04
	1:40:00	21.15	13.03
	1:50:00	21.10	13.03
	2:00:00	20.95	13.03
	2:10:00	20.87	13.02
	2:20:00	20.80	13.02
	2:30:00	20.69	13.02
	2:40:00	20.59	13.02
	2:50:00	20.49	13.01
	3:00:00	20.44	13.01
	3:10:00	20.33	13.00
	3:20:00	20.22	13.00
	3:30:00	20.11	13.00
	3:40:00	20.01	12.99
	3:50:00	19.97	12.99
	4:00:00	19.86	12.99
	4:10:00	19.75	12.99
	4:20:00	19.66	12.98
	4:30:00	19.60	12.98
	4:40:00	19.54	12.97
	4:50:00	19.49	12.98
	5:00:00	19.38	12.97
	5:10:00	19.27	12.97
	5:20:00	19.20	12.97
	5:30:00	19.12	12.97
	5:40:00	19.03	12.97
	5:50:00	19.00	12.97
	6:00:00	18.90	12.96
	6:10:00	18.85	12.96
	6:20:00	18.77	12.96
	6:30:00	18.76	12.96
	6:40:00	18.71	12.96
	6:50:00	18.65	12.98
	7:00:00	18.58	13.02
	7:10:00	18.55	13.05

7:20:00	18.54	13.07
7:30:00	18.44	13.25
7:40:00	18.43	13.50
7:50:00	18.41	13.73
8:00:00	18.38	14.00
8:10:00	18.39	14.81
8:20:00	18.38	14.94
8:30:00	18.37	15.00
8:40:00	18.43	14.21
8:50:00	18.22	15.00
9:00:00	18.49	15.00
9:10:00	18.49	15.00
9:20:00	18.59	14.54
9:30:00	19.57	15.00
9:40:00	18.45	15.00
9:50:00	18.86	14.68
10:00:00	18.95	14.62
10:10:00	18.97	14.91
10:20:00	19.06	15.00
10:30:00	19.16	15.00
10:40:00	19.49	14.49
10:50:00	19.61	14.46
11:00:00	19.78	14.58
11:10:00	19.87	14.68
11:20:00	20.04	14.79
11:30:00	20.12	14.59
11:40:00	20.40	14.37
11:50:00	20.51	14.60
12:00:00	20.67	14.45
12:10:00	20.75	14.91
12:20:00	21.10	14.83
12:30:00	21.30	14.70
12:40:00	21.58	14.27
12:50:00	21.61	14.52
13:00:00	22.04	14.58
13:10:00	22.26	14.12
13:20:00	22.41	14.06
13:30:00	22.62	14.28
13:40:00	22.72	14.60
13:50:00	22.89	14.16
14:00:00	23.16	14.11
14:10:00	23.35	14.16
14:20:00	23.55	14.44
14:30:00	23.79	14.42
14:40:00	23.92	14.39
14:50:00	24.18	14.34
15:00:00	24.38	14.35



15:10:00	24.66	14.31
15:20:00	24.60	14.16
15:30:00	24.66	14.01
15:40:00	24.68	14.40
15:50:00	24.97	14.29
16:00:00	25.01	14.11
16:10:00	25.69	14.22
16:20:00	25.62	14.15
16:30:00	25.03	14.13
16:40:00	23.75	14.14
16:50:00	22.78	14.10
17:00:00	22.65	14.06
17:10:00	22.70	13.99
17:20:00	22.76	13.95
17:30:00	22.70	13.90
17:40:00	22.81	13.80
17:50:00	22.87	13.82
18:00:00	22.89	13.80
18:10:00	22.83	13.73
18:20:00	22.72	13.72
18:30:00	22.81	13.67
18:40:00	22.77	13.65
18:50:00	22.69	13.62
19:00:00	22.60	13.59
19:10:00	22.56	13.55
19:20:00	22.51	13.52
19:30:00	22.45	13.48
19:40:00	22.40	13.42
19:50:00	22.32	13.36
20:00:00	22.26	13.29
20:10:00	22.22	13.21
20:20:00	22.06	13.16
20:30:00	22.00	13.11
20:40:00	21.97	13.08
20:50:00	21.89	13.08
21:00:00	21.78	13.09
21:10:00	21.73	13.10
21:20:00	21.66	13.10
21:30:00	21.58	13.10
21:40:00	21.52	13.10
21:50:00	21.49	13.10
22:00:00	21.41	13.10
22:10:00	21.34	13.10
22:20:00	21.31	13.09
22:30:00	21.21	13.09
22:40:00	21.17	13.08
22:50:00	21.12	13.08

	23:00:00	21.04	13.07
	23:10:00	21.00	13.08
	23:20:00	20.96	13.08
	23:30:00	20.88	13.07
	23:40:00	20.84	13.07
	23:50:00	20.80	13.07
8/27/2009	0:00:00	20.73	13.07
	0:10:00	20.67	13.06
	0:20:00	20.67	13.06
	0:30:00	20.58	13.06
	0:40:00	20.56	13.06
	0:50:00	20.59	13.04
	1:00:00	20.49	13.04
	1:10:00	20.50	13.05
	1:20:00	20.43	13.04
	1:30:00	20.43	13.04
	1:40:00	20.36	13.04
	1:50:00	20.34	13.04
	2:00:00	20.27	13.03
	2:10:00	20.27	13.03
	2:20:00	20.24	13.02
	2:30:00	20.23	13.02
	2:40:00	20.20	13.02
	2:50:00	20.18	13.02
	3:00:00	20.15	13.02
	3:10:00	20.15	13.01
	3:20:00	20.09	13.00
	3:30:00	20.07	13.00
	3:40:00	19.99	12.99
	3:50:00	19.99	13.00
	4:00:00	19.96	13.00
	4:10:00	19.90	12.99
	4:20:00	19.86	12.99
	4:30:00	19.85	12.99
	4:40:00	19.78	12.99
	4:50:00	19.73	12.98
	5:00:00	19.68	12.98
	5:10:00	19.64	12.97
	5:20:00	19.61	12.98
	5:30:00	19.57	12.97
	5:40:00	19.51	12.97
	5:50:00	19.46	12.97
	6:00:00	19.44	12.97
	6:10:00	19.38	12.97
	6:20:00	19.33	12.97
	6:30:00	19.33	12.97
	6:40:00	19.32	12.97

6:50:00	19.24	12.99
7:00:00	19.18	12.99
7:10:00	19.18	13.02
7:20:00	19.14	13.13
7:30:00	19.09	13.27
7:40:00	19.09	13.49
7:50:00	19.10	13.70
8:00:00	19.07	13.84
8:10:00	19.09	14.04
8:20:00	18.89	15.00
8:30:00	19.01	15.00
8:40:00	19.99	15.00
8:50:00	20.00	15.00
9:00:00	20.02	15.00
9:10:00	19.41	14.73
9:20:00	19.56	14.31
9:30:00	19.57	14.63
9:40:00	19.72	14.71
9:50:00	20.73	15.00
10:00:00	19.88	14.90
10:10:00	20.08	15.00
10:20:00	20.29	14.63
10:30:00	20.43	14.55
10:40:00	20.47	14.55
10:50:00	20.60	14.70
11:00:00	20.76	14.47
11:10:00	20.82	14.46
11:20:00	20.99	14.81
11:30:00	21.12	14.68
11:40:00	21.34	14.71
11:50:00	21.52	14.42
12:00:00	21.63	14.36
12:10:00	21.77	14.09
12:20:00	21.82	14.62
12:30:00	22.09	14.29
12:40:00	22.15	14.82
12:50:00	22.35	14.69
13:00:00	22.57	14.62
13:10:00	22.85	14.28
13:20:00	23.00	14.28
13:30:00	23.21	14.19
13:40:00	23.33	14.05
13:50:00	23.40	14.20
14:00:00	23.44	14.09
14:10:00	23.57	14.10
14:20:00	23.68	14.20
14:30:00	23.81	14.17

14:40:00	23.96	14.14
14:50:00	24.01	14.05
15:00:00	24.05	14.20
15:10:00	24.09	14.08
15:20:00	24.17	14.18
15:30:00	24.09	14.20
15:40:00	24.27	14.07
15:50:00	24.29	14.02
16:00:00	24.23	14.10
16:10:00	24.36	14.08
16:20:00	24.39	14.12
16:30:00	24.44	14.49
16:40:00	24.68	14.34
16:50:00	24.68	14.27
17:00:00	24.72	14.01
17:10:00	24.36	14.13
17:20:00	23.11	14.11
17:30:00	21.80	14.10
17:40:00	21.43	14.02
17:50:00	21.30	13.97
18:00:00	21.30	13.92
18:10:00	21.47	13.89
18:20:00	21.50	13.86
18:30:00	21.53	13.80
18:40:00	21.52	13.79
18:50:00	21.51	13.83
19:00:00	21.47	13.81
19:10:00	21.50	13.77
19:20:00	21.45	13.72
19:30:00	21.45	13.65
19:40:00	21.43	13.57
19:50:00	21.36	13.49
20:00:00	21.34	13.41
20:10:00	21.28	13.33
20:20:00	21.28	13.26
20:30:00	21.21	13.19
20:40:00	21.19	13.13
20:50:00	21.12	13.09
21:00:00	21.16	13.08
21:10:00	21.06	13.08
21:20:00	21.07	13.10
21:30:00	20.97	13.10
21:40:00	20.94	13.10
21:50:00	20.94	13.10
22:00:00	20.84	13.10
22:10:00	20.86	13.10
22:20:00	20.75	13.10

	22:30:00	20.73	13.10
	22:40:00	20.69	13.09
	22:50:00	20.64	13.09
	23:00:00	20.58	13.09
	23:10:00	20.56	13.09
	23:20:00	20.53	13.09
	23:30:00	20.50	13.08
	23:40:00	20.48	13.09
	23:50:00	20.40	13.08
8/28/2009	0:00:00	20.40	13.08
	0:10:00	20.34	13.07
	0:20:00	20.34	13.07
	0:30:00	20.29	13.07
	0:40:00	20.26	13.07
	0:50:00	20.23	13.06
	1:00:00	20.22	13.07
	1:10:00	20.16	13.06
	1:20:00	20.15	13.06
	1:30:00	20.13	13.05
	1:40:00	20.08	13.05
	1:50:00	20.05	13.05
	2:00:00	20.03	13.05
	2:10:00	20.01	13.04
	2:20:00	20.00	13.04
	2:30:00	19.98	13.04
	2:40:00	19.95	13.03
	2:50:00	19.93	13.04
	3:00:00	19.90	13.03
	3:10:00	19.84	13.03
	3:20:00	19.89	13.02
	3:30:00	19.85	13.01
	3:40:00	19.89	13.02
	3:50:00	19.83	13.01
	4:00:00	19.81	13.01
	4:10:00	19.81	13.00
	4:20:00	19.80	13.00
	4:30:00	19.80	12.99
	4:40:00	19.79	12.99
	4:50:00	19.77	12.99
	5:00:00	19.77	12.99
	5:10:00	19.77	12.99
	5:20:00	19.75	12.99
	5:30:00	19.75	12.97
	5:40:00	19.71	12.97
	5:50:00	19.66	12.98
	6:00:00	19.66	12.97
	6:10:00	19.67	12.98

6:20:00	19.63	12.98
6:30:00	19.61	12.98
6:40:00	19.60	12.98
6:50:00	19.62	12.98
7:00:00	19.61	12.98
7:10:00	19.53	13.03
7:20:00	19.53	13.06
7:30:00	19.55	13.19
7:40:00	19.51	13.35
7:50:00	19.51	13.51
8:00:00	19.57	13.69
8:10:00	19.56	13.76
8:20:00	19.55	13.73
8:30:00	19.57	13.76
8:40:00	19.57	13.75
8:50:00	19.55	13.77
9:00:00	19.60	13.93
9:10:00	19.66	14.06
9:20:00	19.73	13.49
9:30:00	19.78	14.51
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9:50:00	19.57	15.00
10:00:00	19.91	14.94
10:10:00	19.96	14.53
10:20:00	20.00	14.44
10:30:00	20.04	14.46
10:40:00	20.11	14.63
10:50:00	20.15	14.74
11:00:00	20.21	14.88
11:10:00	20.34	14.60
11:20:00	20.47	14.56
11:30:00	20.55	14.45
11:40:00	20.58	14.33
11:50:00	20.58	14.25
12:00:00	20.60	14.28
12:10:00	20.68	14.28
12:20:00	20.71	14.50
12:30:00	20.79	14.57
12:40:00	20.84	14.30
12:50:00	20.86	14.19
13:00:00	20.78	14.19
13:10:00	20.75	14.29
13:20:00	20.56	14.36
13:30:00	19.57	14.55
13:40:00	19.46	14.47
13:50:00	19.99	14.35
14:00:00	20.29	14.50

14:10:00	20.56	14.50
14:20:00	20.75	14.48
14:30:00	20.93	14.38
14:40:00	20.99	14.29
14:50:00	21.12	14.25
15:00:00	21.18	14.17
15:10:00	21.22	14.17
15:20:00	21.21	14.17
15:30:00	21.20	14.21
15:40:00	21.28	13.75
15:50:00	21.30	13.11
16:00:00	21.26	13.32
16:10:00	21.30	13.72
16:20:00	21.30	14.03
16:30:00	21.31	14.15
16:40:00	21.32	14.21
16:50:00	21.34	14.23
17:00:00	21.36	14.30
17:10:00	21.35	14.25
17:20:00	21.35	14.23
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18:10:00	21.41	14.25
18:20:00	21.40	14.17
18:30:00	21.43	14.16
18:40:00	21.41	14.15
18:50:00	21.41	14.13
19:00:00	21.43	14.11
19:10:00	21.42	14.05
19:20:00	21.39	13.98
19:30:00	21.40	13.87
19:40:00	21.33	13.78
19:50:00	21.32	13.67
20:00:00	21.30	13.58
20:10:00	21.26	13.49
20:20:00	21.23	13.42
20:30:00	21.25	13.33
20:40:00	21.21	13.28
20:50:00	21.19	13.21
21:00:00	21.15	13.15
21:10:00	21.18	13.10
21:20:00	21.12	13.07
21:30:00	21.12	13.06
21:40:00	21.10	13.08
21:50:00	21.08	13.10

	22:00:00	21.02	13.12
	22:10:00	21.02	13.12
	22:20:00	20.99	13.13
	22:30:00	20.97	13.13
	22:40:00	20.93	13.13
	22:50:00	20.93	13.13
	23:00:00	20.88	13.13
	23:10:00	20.93	13.13
	23:20:00	20.92	13.13
	23:30:00	20.91	13.12
	23:40:00	20.84	13.12
	23:50:00	20.80	13.12
8/29/2009	0:00:00	20.82	13.12
	0:10:00	20.79	13.12
	0:20:00	20.80	13.11
	0:30:00	20.75	13.11
	0:40:00	20.78	13.10
	0:50:00	20.71	13.11
	1:00:00	20.70	13.10
	1:10:00	20.66	13.10
	1:20:00	20.69	13.10
	1:30:00	20.64	13.09
	1:40:00	20.62	13.08
	1:50:00	20.60	13.09
	2:00:00	20.58	13.08
	2:10:00	20.58	13.08
	2:20:00	20.57	13.08
	2:30:00	20.51	13.07
	2:40:00	20.51	13.06
	2:50:00	20.48	13.06
	3:00:00	20.50	13.06
	3:10:00	20.47	13.05
	3:20:00	20.44	13.05
	3:30:00	20.43	13.04
	3:40:00	20.42	13.04
	3:50:00	20.42	13.03
	4:00:00	20.39	13.03
	4:10:00	20.38	13.03
	4:20:00	20.37	13.03
	4:30:00	20.33	13.02
	4:40:00	20.28	13.02
	4:50:00	20.31	13.02
	5:00:00	20.28	13.01
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	5:20:00	20.24	13.00
	5:30:00	20.22	13.00
	5:40:00	20.15	13.00



5:50:00	20.15	12.99
6:00:00	20.20	12.99
6:10:00	20.16	12.99
6:20:00	20.08	12.99
6:30:00	20.11	12.99
6:40:00	20.10	12.98
6:50:00	20.03	12.98
7:00:00	20.02	12.97
7:10:00	20.01	12.98
7:20:00	19.99	13.03
7:30:00	19.97	13.07
7:40:00	19.95	13.18
7:50:00	19.92	13.33
8:00:00	19.99	13.40
8:10:00	19.92	13.47
8:20:00	19.98	13.65
8:30:00	19.93	13.68
8:40:00	20.00	13.78
8:50:00	19.92	13.83
9:00:00	19.97	13.71
9:10:00	19.97	13.99
9:20:00	19.99	13.88
9:30:00	20.01	14.04
9:40:00	20.04	14.24
9:50:00	20.05	14.24
10:00:00	20.10	14.42
10:10:00	21.39	15.00
10:20:00	20.25	14.26
10:30:00	20.19	14.10
10:40:00	20.23	14.36
10:50:00	20.25	14.43
11:00:00	20.71	15.00
11:10:00	20.37	14.60
11:20:00	20.38	14.35
11:30:00	20.45	14.56
11:40:00	20.58	14.51
11:50:00	20.60	14.71
12:00:00	20.80	14.43
12:10:00	20.84	14.53
12:20:00	21.04	14.68
12:30:00	21.23	14.50
12:40:00	21.28	14.60
12:50:00	21.47	14.43
13:00:00	21.52	14.71
13:10:00	21.43	14.39
13:20:00	21.06	14.58
13:30:00	20.19	14.19

13:40:00	19.65	14.11
13:50:00	20.16	14.44
14:00:00	20.33	15.00
14:10:00	21.07	14.38
14:20:00	21.31	14.30
14:30:00	21.53	14.61
14:40:00	21.73	14.74
14:50:00	21.80	14.64
15:00:00	21.92	14.57
15:10:00	21.87	14.45
15:20:00	22.09	14.54
15:30:00	22.15	14.45
15:40:00	22.06	14.30
15:50:00	22.22	14.05
16:00:00	22.24	14.06
16:10:00	22.23	13.85
16:20:00	22.26	13.83
16:30:00	22.41	14.21
16:40:00	22.37	13.90
16:50:00	22.43	13.95
17:00:00	22.52	14.13
17:10:00	22.43	13.95
17:20:00	22.50	13.92
17:30:00	22.48	14.09
17:40:00	22.48	14.06
17:50:00	22.52	14.11
18:00:00	22.54	14.03
18:10:00	22.57	13.98
18:20:00	22.52	13.93
18:30:00	22.52	13.85
18:40:00	22.48	13.80
18:50:00	22.41	13.74
19:00:00	22.43	13.69
19:10:00	22.33	13.65
19:20:00	22.26	13.60
19:30:00	22.19	13.55
19:40:00	22.15	13.49
19:50:00	22.11	13.44
20:00:00	21.98	13.37
20:10:00	21.95	13.30
20:20:00	21.87	13.23
20:30:00	21.83	13.18
20:40:00	21.73	13.12
20:50:00	21.66	13.09
21:00:00	21.63	13.08
21:10:00	21.54	13.09
21:20:00	21.45	13.10

	21:30:00	21.40	13.11
	21:40:00	21.38	13.11
	21:50:00	21.31	13.12
	22:00:00	21.20	13.12
	22:10:00	21.17	13.11
	22:20:00	21.11	13.11
	22:30:00	21.02	13.11
	22:40:00	20.96	13.10
	22:50:00	20.92	13.11
	23:00:00	20.82	13.10
	23:10:00	20.81	13.09
	23:20:00	20.72	13.10
	23:30:00	20.66	13.09
	23:40:00	20.59	13.10
	23:50:00	20.55	13.09
8/30/2009	0:00:00	20.46	13.09
	0:10:00	20.38	13.08
	0:20:00	20.32	13.08
	0:30:00	20.29	13.08
	0:40:00	20.20	13.08
	0:50:00	20.14	13.08
	1:00:00	20.08	13.07
	1:10:00	20.07	13.07
	1:20:00	19.96	13.06
	1:30:00	19.91	13.07
	1:40:00	19.83	13.06
	1:50:00	19.79	13.06
	2:00:00	19.71	13.05
	2:10:00	19.65	13.04
	2:20:00	19.60	13.05
	2:30:00	19.52	13.04
	2:40:00	19.48	13.03
	2:50:00	19.45	13.03
	3:00:00	19.35	13.03
	3:10:00	19.28	13.03
	3:20:00	19.26	13.01
	3:30:00	19.15	13.03
	3:40:00	19.08	13.02
	3:50:00	19.02	13.02
	4:00:00	18.95	13.01
	4:10:00	18.91	13.01
	4:20:00	18.82	13.00
	4:30:00	18.76	13.00
	4:40:00	18.72	12.99
	4:50:00	18.68	12.99
	5:00:00	18.57	12.98
	5:10:00	18.53	12.97

5:20:00	18.46	12.97
5:30:00	18.37	12.98
5:40:00	18.34	12.98
5:50:00	18.30	12.96
6:00:00	18.20	12.97
6:10:00	18.17	12.97
6:20:00	18.12	12.88
6:30:00	18.06	12.94
6:40:00	17.99	12.95
6:50:00	17.93	12.96
7:00:00	17.88	12.97
7:10:00	17.82	13.03
7:20:00	17.75	13.09
7:30:00	17.77	13.10
7:40:00	17.71	13.36
7:50:00	17.69	13.57
8:00:00	17.62	13.78
8:10:00	17.62	13.97
8:20:00	17.59	14.15
8:30:00	17.31	15.00
8:40:00	18.32	15.00
8:50:00	17.64	15.00
9:00:00	17.69	14.65
9:10:00	17.70	14.93
9:20:00	18.89	15.00
9:30:00	17.76	14.73
9:40:00	17.83	15.00
9:50:00	18.89	15.00
10:00:00	18.00	14.54
10:10:00	19.21	15.00
10:20:00	18.19	14.66
10:30:00	18.31	14.58
10:40:00	18.35	14.58
10:50:00	18.39	15.00
11:00:00	18.59	14.56
11:10:00	18.72	14.66
11:20:00	18.81	14.83
11:30:00	19.01	14.45
11:40:00	19.07	14.77
11:50:00	19.33	14.62
12:00:00	19.44	14.87
12:10:00	19.51	14.38
12:20:00	19.71	14.62
12:30:00	19.95	14.74
12:40:00	20.19	14.77
12:50:00	20.34	14.66
13:00:00	20.58	14.17

13:10:00	20.62	14.28
13:20:00	20.73	14.62
13:30:00	20.95	14.13
13:40:00	20.96	14.59
13:50:00	21.28	14.53
14:00:00	21.62	14.43
14:10:00	21.74	14.55
14:20:00	21.91	14.30
14:30:00	21.95	14.49
14:40:00	22.08	14.50
14:50:00	22.22	14.42
15:00:00	22.33	14.40
15:10:00	22.68	14.18
15:20:00	22.75	14.22
15:30:00	22.74	14.34
15:40:00	22.83	14.02
15:50:00	22.65	13.99
16:00:00	22.66	13.94
16:10:00	22.96	14.37
16:20:00	23.07	14.10
16:30:00	22.96	14.34
16:40:00	23.05	14.27
16:50:00	23.16	13.99
17:00:00	23.07	14.16
17:10:00	23.24	14.03
17:20:00	23.22	13.90
17:30:00	23.24	14.09
17:40:00	23.24	13.92
17:50:00	23.26	13.93
18:00:00	23.29	13.91
18:10:00	23.31	13.90
18:20:00	23.26	13.90
18:30:00	23.26	13.83
18:40:00	23.16	13.78
18:50:00	23.11	13.71
19:00:00	23.02	13.66
19:10:00	22.94	13.61
19:20:00	22.83	13.56
19:30:00	22.78	13.52
19:40:00	22.72	13.45
19:50:00	22.62	13.39
20:00:00	22.51	13.33
20:10:00	22.37	13.26
20:20:00	22.33	13.20
20:30:00	22.19	13.15
20:40:00	22.13	13.10
20:50:00	22.04	13.06

	21:00:00	21.91	13.05
	21:10:00	21.80	13.05
	21:20:00	21.71	13.06
	21:30:00	21.66	13.08
	21:40:00	21.54	13.08
	21:50:00	21.47	13.08
	22:00:00	21.38	13.08
	22:10:00	21.27	13.08
	22:20:00	21.16	13.08
	22:30:00	21.04	13.08
	22:40:00	20.95	13.08
	22:50:00	20.90	13.08
	23:00:00	20.78	13.08
	23:10:00	20.64	13.07
	23:20:00	20.60	13.07
	23:30:00	20.52	13.07
	23:40:00	20.39	13.06
	23:50:00	20.26	13.07
8/31/2009	0:00:00	20.13	13.06
	0:10:00	20.08	13.06
	0:20:00	19.95	13.06
	0:30:00	19.86	13.06
	0:40:00	19.79	13.06
	0:50:00	19.68	13.05
	1:00:00	19.62	13.05
	1:10:00	19.48	13.05
	1:20:00	19.33	13.05
	1:30:00	19.24	13.05
	1:40:00	19.07	13.05
	1:50:00	19.06	13.03
	2:00:00	18.95	13.04
	2:10:00	18.82	13.03
	2:20:00	18.76	13.03
	2:30:00	18.63	13.03
	2:40:00	18.55	13.02
	2:50:00	18.43	13.02
	3:00:00	18.34	13.02
	3:10:00	18.22	13.01
	3:20:00	18.13	13.01
	3:30:00	18.03	13.00
	3:40:00	17.91	13.00
	3:50:00	17.81	12.99
	4:00:00	17.76	12.99
	4:10:00	17.66	12.99
	4:20:00	17.62	12.98
	4:30:00	17.58	12.97
	4:40:00	17.51	12.97

4:50:00	17.48	12.97
5:00:00	17.46	12.96
5:10:00	17.37	12.95
5:20:00	17.28	12.95
5:30:00	17.28	12.94
5:40:00	17.20	12.95
5:50:00	17.18	12.95
6:00:00	17.07	12.94
6:10:00	17.07	12.94
6:20:00	16.96	12.94
6:30:00	16.93	12.91
6:40:00	16.88	12.92
6:50:00	16.81	12.93
7:00:00	16.79	12.95
7:10:00	16.75	12.94
7:20:00	16.75	12.95
7:30:00	16.72	13.00
7:40:00	16.64	13.03
7:50:00	16.64	13.09
8:00:00	16.61	13.20
8:10:00	16.61	13.39
8:20:00	16.57	13.60
8:30:00	16.53	13.70
8:40:00	16.53	14.10
8:50:00	17.65	15.00
9:00:00	16.63	15.00
9:10:00	18.07	15.00
9:20:00	16.80	15.00
9:30:00	17.46	15.00
9:40:00	17.43	15.00
9:50:00	17.04	14.94
10:00:00	17.13	15.00
10:10:00	17.24	15.00
10:20:00	17.39	15.00
10:30:00	17.49	15.00
10:40:00	17.71	14.88
10:50:00	17.85	14.84
11:00:00	17.97	14.82
11:10:00	18.09	14.46
11:20:00	18.20	14.64
11:30:00	18.24	14.73
11:40:00	18.31	14.67
11:50:00	18.44	14.54
12:00:00	18.63	14.64
12:10:00	18.96	14.31
12:20:00	19.07	14.68
12:30:00	19.40	14.62

12:40:00	19.67	14.60
12:50:00	19.87	14.55
13:00:00	19.98	14.04
13:10:00	19.07	14.04
13:20:00	18.73	14.07
13:30:00	18.58	14.32
13:40:00	18.27	14.54
13:50:00	19.05	14.55
14:00:00	19.75	14.10
14:10:00	20.21	14.08
14:20:00	20.47	14.53
14:30:00	20.80	14.49
14:40:00	21.09	14.04
14:50:00	21.43	14.44
15:00:00	21.61	14.40
15:10:00	21.85	14.36
15:20:00	22.09	14.35
15:30:00	22.26	14.32
15:40:00	22.26	14.31
15:50:00	22.15	14.34
16:00:00	22.39	14.31
16:10:00	22.50	14.29
16:20:00	22.57	14.28
16:30:00	22.54	14.04
16:40:00	22.52	13.87
16:50:00	22.52	14.03
17:00:00	22.68	14.15
17:10:00	22.50	14.07
17:20:00	22.63	14.05
17:30:00	22.63	13.99
17:40:00	22.45	13.91
17:50:00	22.54	13.82
18:00:00	22.48	13.75
18:10:00	22.46	13.70
18:20:00	22.36	13.66
18:30:00	22.35	13.65
18:40:00	22.22	13.64
18:50:00	22.06	13.62
19:00:00	21.98	13.59
19:10:00	21.80	13.56
19:20:00	21.74	13.53
19:30:00	21.65	13.49
19:40:00	21.50	13.44
19:50:00	21.43	13.38
20:00:00	21.30	13.32
20:10:00	21.17	13.26
20:20:00	21.02	13.20



	20:30:00	20.88	13.15
	20:40:00	20.74	13.10
	20:50:00	20.67	13.06
	21:00:00	20.51	13.04
	21:10:00	20.42	13.03
	21:20:00	20.28	13.05
	21:30:00	20.18	13.05
	21:40:00	20.04	13.06
	21:50:00	19.91	13.06
	22:00:00	19.79	13.05
	22:10:00	19.67	13.06
	22:20:00	19.59	13.05
	22:30:00	19.46	13.05
	22:40:00	19.39	13.06
	22:50:00	19.27	13.04
	23:00:00	19.18	13.04
	23:10:00	19.09	13.05
	23:20:00	18.98	13.04
	23:30:00	18.91	13.05
	23:40:00	18.77	13.04
	23:50:00	18.68	13.03
9/1/2009	0:00:00	18.61	13.04
	0:10:00	18.49	13.03
	0:20:00	18.43	13.03
	0:30:00	18.36	13.03
	0:40:00	18.23	13.03
	0:50:00	18.18	13.01
	1:00:00	18.11	13.02
	1:10:00	18.03	13.01
	1:20:00	17.94	13.01
	1:30:00	17.87	13.01
	1:40:00	17.78	13.00
	1:50:00	17.70	13.00
	2:00:00	17.67	12.99
	2:10:00	17.59	12.99
	2:20:00	17.54	12.99
	2:30:00	17.48	12.99
	2:40:00	17.40	12.99
	2:50:00	17.34	12.99
	3:00:00	17.29	12.98
	3:10:00	17.18	12.98
	3:20:00	17.13	12.98
	3:30:00	17.07	12.98
	3:40:00	16.99	12.98
	3:50:00	16.94	12.98
	4:00:00	16.88	12.97
	4:10:00	16.79	12.97

4:20:00	16.72	12.96
4:30:00	16.66	12.97
4:40:00	16.57	12.96
4:50:00	16.48	12.96
5:00:00	16.48	12.94
5:10:00	16.37	12.95
5:20:00	16.35	12.94
5:30:00	16.24	12.93
5:40:00	16.16	12.93
5:50:00	16.11	12.94
6:00:00	16.05	12.93
6:10:00	16.00	12.92
6:20:00	15.91	12.92
6:30:00	15.85	12.92
6:40:00	15.78	12.92
6:50:00	15.74	12.93
7:00:00	15.68	12.91
7:10:00	15.59	12.97
7:20:00	15.52	13.02
7:30:00	15.44	13.09
7:40:00	15.39	13.10
7:50:00	15.35	13.32
8:00:00	15.33	13.60
8:10:00	15.28	13.95
8:20:00	14.94	15.00
8:30:00	15.63	15.00
8:40:00	16.69	15.00
8:50:00	16.60	15.00
9:00:00	16.07	15.00
9:10:00	15.68	15.00
9:20:00	15.29	15.00
9:30:00	15.64	15.00
9:40:00	15.74	15.00
9:50:00	15.91	15.00
10:00:00	16.03	14.97
10:10:00	16.19	14.93
10:20:00	16.34	14.89
10:30:00	16.52	14.85
10:40:00	16.71	14.81
10:50:00	16.86	14.78
11:00:00	17.07	14.76
11:10:00	17.19	14.73
11:20:00	17.39	14.65
11:30:00	17.50	14.74
11:40:00	17.72	14.52
11:50:00	17.93	14.49
12:00:00	18.08	14.49

12:10:00	18.25	14.50
12:20:00	18.39	14.49
12:30:00	18.59	14.63
12:40:00	18.72	14.59
12:50:00	18.84	14.55
13:00:00	19.01	14.52
13:10:00	19.36	14.37
13:20:00	19.57	14.39



**TEMPERATURE ENHANCEMENT PLAN**  
**SANG RUN TEMPERATURE EXCURSIONS**



Summary of Temperature Excursions June 1, 2009 to August 31, 2009				
JUNE 2009				
No temperature excursions occurred in June.				
JULY 2009				
Date	Duration	Max Temp (°C)	Cause	Remarks
July 8, 2009	50 minutes	25.26	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day.
July 12, 2009	1 hour 40 minutes	25.47	(1) Model Uncertainty	The protocol was conducted, and a release was made from 15:24 - 17:27.
July 15, 2009	50 minutes	25.93	(1) Model Uncertainty	The protocol was conducted, and a release was made from 14:10 - 15:30.
July 16, 2009	40 minutes	25.36	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day.
July 21, 2009	1 hour 30 minutes	25.98	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day.
July 23, 2009	3 hours 20 minutes	25.56	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day.
July 26, 2009	3 hours 50 minutes	28.37	(1) Model Uncertainty	The protocol was conducted, and a release was made from 14:03 - 16:03.
AUGUST 2009				
August 12, 2009	2 hours 50 minutes	25.58	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day.
August 16, 2009	1 hour 30 minutes	26.67	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day.
August 19, 2009	40 minutes	25.25	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day.
August 20, 2009	1 hour 20 minutes	26.37	(1) Model Uncertainty	The protocol was conducted, and a release was made from 14:09 - 16:09.
August 25, 2009	4 hours 10 minutes	26.02	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day.
August 26, 2009	30 minutes	25.69	(1) Model Uncertainty	The protocol was conducted, and a release was made from 14:00 - 15:00. Flow bypass open to 22% at 07:00 am.
Category (1) completed established protocol; temperature exceeded 25°C				

**TEMPERATURE ENHANCEMENT PLAN DAILY SHEETS**





YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

156 = CFS River Flow at Oakland

June 1, 2009

Simulate a Rai

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C.	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	14.63	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	156.00	River Flow at Oakland		

*J. J.*  
6-1-09

**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

115 \* CFS River Flow at Oakland

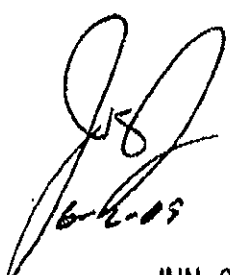
June 2, 2009

Simulate a Run

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	No Further Predictions Necessary Today
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	16.42	River Temp Sang Run @700		
T9	-	River Temp Sang Run @900		
T11	-	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	115.00	River Flow at Oakland		



AB

JUN 02 2009

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

106 = CFS River Flow at Oakland

June 3, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	No Further Predictions Necessary Today
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	22.78	Air Temp, Elkins WV - Degree C	73	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.11	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	108.00	River Flow at Oakland		

*wpc*

JUN 03 2009

*AB*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

115 = CFS River Flow at Oakland

June 4, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 28.4)	No Further Predictions Necessary Today
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	14.44	Air Temp, Elkins WV - Degree C	58	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	17.45	River Temp Sang Run @700	<i>WPC</i>	
T8	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	115.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

583 = CFS River Flow at Oakland

June 5, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	13.33	Air Temp, Elkins WV - Degree C	56	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	15.83	River Temp Sang Run @700	<i>wpc</i>	
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	583.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

1040 = CFS River Flow at Oakland

June 6, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLOUDY	Cloud Cover, Elkins WV
T7	14.50	River Temp Sang Run @700		
T9	-	River Temp Sang Run @900		
T11	-	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T13	1040.00	River Flow at Oakland @1300		
T14	1040.00	River Flow at Oakland @1400		
T15	1040.00	River Flow at Oakland @1500		

*Sam Van Pelt*

**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

477 = CFS River Flow at Oakland

June 7, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	28.89	Air Temp, Elkins WV - Degree C	64	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	15.20	River Temp Sang Run @700	<i>WPL</i>	
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	477.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

301 = CFS River Flow at Oakland

June 8, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.08	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	301.00	River Flow at Oakland		

*R. Webb*

*J. J.*  
6-8-09

**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

222 = CFS River Flow at Oakland

June 9, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	17.22	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	16	Cloud Cover Factor, Elkins WV	FAIR	Cloud Cover, Elkins WV
T7	18.43	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	222.00	River Flow at Oakland		

*JSD*  
6-9-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

190 = CFS River Flow at Oakland

June 10, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	15.00	Air Temp, Elkins WV - Degree C	59	Air Temp, Elkins WV - Degree F
CCF	16	Cloud Cover Factor, Elkins WV	FAIR	Cloud Cover, Elkins WV
T7	17.57	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	190.00	River Flow at Oakland		

*JH*  
 ✓ 6-10-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

165 = CFS River Flow at Oakland

June 11, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.84	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	165.00	River Flow at Oakland		

*D.K.O.*  
6/11/09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

159 = CFS River Flow at Oakland

June 12, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0800	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	19.44	Air Temp, Elkins WV - Degree C	67	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.15	River Temp Sang Run @700	<i>WPL</i>	
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	159.00	River Flow at Oakland		

**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

145 = CFS River Flow at Oakland

June 13, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 26.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.13	River Temp Sang Run @700		
T9	18.26	River Temp Sang Run @900		
T11	18.81	River Temp Sang Run @1100		
T12	19.02	River Temp Sang Run @1200		
T14	19.92	River Temp Sang Run @1400		
T15	20.40	River Temp Sang Run @1500		
Q	145.00	River Flow at Oakland		

**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

112 = CFS River Flow at Oakland

June 14, 2009

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0800
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	17.34	River Temp Sang Run @700	<i>WPA</i>	
T9	17.22	River Temp Sang Run @900		
T11	18.41	River Temp Sang Run @1100		
T12	20.10	River Temp Sang Run @1200		
T14	21.20	River Temp Sang Run @1400		
T15	22.83	River Temp Sang Run @1500		
Q	112.00	River Flow at Oakland		

**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

90 = CFS River Flow at Oakland

June 15, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.49	River Temp Sang Run @700	<i>WPC</i>	
T9	17.58	River Temp Sang Run @900		
T11	18.89	River Temp Sang Run @1100		
T12	19.93	River Temp Sang Run @1200		
T14	18.33	River Temp Sang Run @1400		
T15	18.37	River Temp Sang Run @1500		
Q	90.00	River Flow at Oakland		



**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

78 = CFS River Flow at Oakland

June 16, 2009

Simulate a Rai

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 28.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.67	River Temp Sang Run @700	<i>WPR</i>	
T9	17.76	River Temp Sang Run @900		
T11	19.04	River Temp Sang Run @1100		
T12	20.15	River Temp Sang Run @1200		
T14	22.23	River Temp Sang Run @1400		
T15	23.31	River Temp Sang Run @1500		
Q	78.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

70 = CFS River Flow at Oakland

June 17, 2009

Simulate a Rai

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.74	River Temp Sang Run @700		
T9	18.55	River Temp Sang Run @900		
T11	18.48	River Temp Sang Run @1100		
T12	19.51	River Temp Sang Run @1200		
T14	19.65	River Temp Sang Run @1400		
T15	20.27	River Temp Sang Run @1500		
Q	70.00	River Flow at Oakland		

*J.P.*  
6-17-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

647 = CFS River Flow at Oakland

June 18, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	OVRCAST	Cloud Cover, Elkins WV
T7	18.38	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	647.00	River Flow at Oakland		

*[Handwritten Signature]*  
6-18-09

**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

431 = CFS River Flow at Oakland

June 19, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	16.87	Air Temp, Elkins WV - Degree C	62	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	OVRCAST	Cloud Cover, Elkins WV
T7	16.82	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	431.00	River Flow at Oakland		

*[Handwritten Signature]*  
6-19-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

268 = CFS River Flow at Oakland

June 20, 2009

Simulate a Run

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0800	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	19.34	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	268.00	River Flow at Oakland		

*[Handwritten Signature]*  
6-20-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

793 = CFS River Flow at Oakland

June 21, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.02	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	793.00	River Flow at Oakland		

*J. J.*  
6-21-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

420 = CFS River Flow at Oakland

June 22, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.14	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	420.00	River Flow at Oakland		

*wpc*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

293 = CFS River Flow at Oakland

June 23, 2009

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	25.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.38	River Temp Sang Run @700	<i>wpc</i>	
T9	-	River Temp Sang Run @900		
T11	-	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	293.00	River Flow at Oakland		

*D.A.*



**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

211 = CFS River Flow at Oakland

June 24, 2009

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	38	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.35	River Temp Sang Run @700		
T9	-	River Temp Sang Run @900		
T11	-	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	211.00	River Flow at Oakland		

*DJA* *WPK*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

185 = CFS River Flow at Oakland

June 25, 2009

Simulate a Rat

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	18.83	River Temp Sang Run @700	<i>WPC</i>	
T9	-	River Temp Sang Run @900		
T11	-	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	185.00	River Flow at Oakland		

**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

139 = CFS River Flow at Oakland

June 26, 2009

Simulate a Rain

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.12	River Temp Sang Run @700		
T9	20.27	River Temp Sang Run @900		
T11	21.24	River Temp Sang Run @1100		
T12	21.48	River Temp Sang Run @1200		
T14	19.18	River Temp Sang Run @1400		
T15	19.42	River Temp Sang Run @1500		
Q	139.00	River Flow at Oakland		

*J-L*  
6-26-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

121 = CFS River Flow at Oakland

June 27, 2009

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 26.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	19.20	River Temp Sang Run @700	<i>WPC</i>	
T9	19.00	River Temp Sang Run @900		
T11	20.02	River Temp Sang Run @1100		
T12	20.82	River Temp Sang Run @1200		
T14	19.01	River Temp Sang Run @1400		
T15	19.30	River Temp Sang Run @1500		
Q	121.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

96 = CFS River Flow at Oakland

June 28, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	No Further Predictions Necessary Today
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	12.22	Air Temp, Elkins WV - Degree C	54	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.04	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	96.00	River Flow at Oakland		

*[Handwritten Signature]*  
6-28-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

88 = CFS River Flow at Oakland

June 29, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	No Further Predictions Necessary Today
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	11.11	Air Temp, Elkins WV - Degree C	52	Air Temp, Elkins WV - Degree F
CCF	38	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	18.48	River Temp Sang Run @700	<i>M 6/29/09</i>	
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	88.00	River Flow at Oakland	<i>P-J 6-29-09</i>	

**YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN**

73 = CFS River Flow at Oakland

June 30, 2009

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.90	River Temp Sang Run @700		
T9	18.99	River Temp Sang Run @900		
T11	19.80	River Temp Sang Run @1100		
T12	19.88	River Temp Sang Run @1200		
T14	20.85	River Temp Sang Run @1400		
T15	18.68	River Temp Sang Run @1500		
Q	73.00	River Flow at Oakland		

*[Handwritten Signature]*  
 6-30-09 ✓

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

73 = CFS River Flow at Oakland

July 1, 2009

Simulate a Run

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.11	River Temp Sang Run @700		
T9	18.16	River Temp Sang Run @900		
T11	19.05	River Temp Sang Run @1100		
T12	19.82	River Temp Sang Run @1200		
T14	20.78	River Temp Sang Run @1400		
T15	22.07	River Temp Sang Run @1500		
Q	73.00	River Flow at Oakland		

*WPC*



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

162 = CFS River Flow at Oakland

July 2, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	19.08 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	20.56	Air Temp, Elkins WV - Degree C	69	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	18.31	River Temp Sang Run @700	<i>DA</i> <i>WPC</i>	
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	162.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

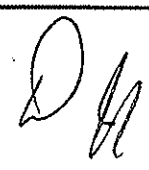
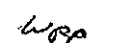
101 = CFS River Flow at Oakland

July 3, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.29 (23 to 26.4)	No Further Predictions Necessary Today
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	17.46	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	101.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

88 = CFS River Flow at Oakland

July 4, 2009

Simulate a Ran

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	17.24	River Temp Sang Run @700		
T9	17.40	River Temp Sang Run @900		
T11	18.62	River Temp Sang Run @1100		
T12	19.56	River Temp Sang Run @1200		
T14	18.62	River Temp Sang Run @1400		
T15	18.79	River Temp Sang Run @1500		
Q	88.00	River Flow at Oakland		

JUL 04 2009

BB  
WPC

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Run

66 = CFS River Flow at Oakland

July 5, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.10 (23 to 26.4)	Check Again at 0900
0900	21.13 (23 to 25.9)	Check Again at 1100
1100	21.17 (23 to 25.4)	Check Again at 1200
1200	21.25 (23 to 25.3)	Check Again at 1400
1400	21.26 (23 to 25.2)	Check Again at 1500
1500	21.44	Check Again Tomorrow at 0700

Tair °C	21.11	Air Temp, Elkins WV - Degree C	70	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	17.83	River Temp Sang Run @700		
T9	17.94	River Temp Sang Run @900		
T11	18.56	River Temp Sang Run @1100		
T12	19.12	River Temp Sang Run @1200		
T14	19.91	River Temp Sang Run @1400		
T15	20.43	River Temp Sang Run @1500		
Q	66.00	River Flow at Oakland		

*Printed WPC*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

56 = CFS River Flow at Oakland

July 6, 2009

Simulate a Rar

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.97 (23 to 26.4)	Check Again at 0900
0900	22.59 (23 to 25.9)	Check Again at 1100
1100	23.97 (23 to 25.4)	Check Again at 1200
1200	24.04 (23 to 25.3)	Check Again at 1400
1400	20.43 (23 to 25.2)	Check Again at 1500
1500	21.07	Check Again Tomorrow at 0700

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	16.88	River Temp Sang Run @700		
T9	16.85	River Temp Sang Run @900		
T11	18.43	River Temp Sang Run @1100		
T12	19.67	River Temp Sang Run @1200		
T14	19.12	River Temp Sang Run @1400		
T15	20.02	River Temp Sang Run @1500		
Q	56.00	River Flow at Oakland		

*J. S. R.*  
7-6-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

46 = CFS River Flow at Oakland

July 7, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	17.33	River Temp Sang Run @700		
T9	17.46	River Temp Sang Run @900		
T11	19.00	River Temp Sang Run @1100		
T12	20.06	River Temp Sang Run @1200		
T14	21.39	River Temp Sang Run @1400		
T15	22.51	River Temp Sang Run @1500		
Q	46.00	River Flow at Oakland		

*[Handwritten Signature]*  
7-7-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

41

= CFS River Flow at Oakland

July 8, 2009

Simulate a Rar

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.00 (23 to 26.4)	Check Again at 0900
0900	23.95 (23 to 25.9)	Check Again at 1100
1100	23.94 (23 to 25.4)	Check Again at 1200
1200	23.85 (23 to 25.3)	Check Again at 1400
1400	24.29 (23 to 25.2)	Check Again at 1500
1500	24.85	Check Again Tomorrow at 0700

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	16.73	River Temp Sang Run @700		
T9	16.81	River Temp Sang Run @900		
T11	18.40	River Temp Sang Run @1100		
T12	19.54	River Temp Sang Run @1200		
T14	22.08	River Temp Sang Run @1400		
T15	23.40	River Temp Sang Run @1500		
Q	41.00	River Flow at Oakland		

*R. White*

*JSC*  
*7-8-09*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

35 = CFS River Flow at Oakland

July 9, 2009

Simulate a Ran

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	16.84	River Temp Sang Run @700		
T9	17.19	River Temp Sang Run @900		
T11	18.97	River Temp Sang Run @1100		
T12	19.54	River Temp Sang Run @1200		
T14	20.09	River Temp Sang Run @1400		
T15	20.63	River Temp Sang Run @1500		
Q	35.00	River Flow at Oakland		

*[Handwritten signature]*  
7-9-09



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

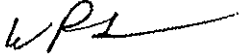
Simulate a Rat

32 = CFS River Flow at Oakland

July 10, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.02 (23 to 26.4)	Check Again at 0900
0900	21.46 (23 to 25.9)	Check Again at 1100
1100	21.78 (23 to 25.4)	Check Again at 1200
1200	22.38 (23 to 25.3)	Check Again at 1400
1400	20.43 (23 to 25.2)	Check Again at 1500
1500	20.61	Check Again Tomorrow at 0700

Tair °C	16.11	Air Temp, Elkins WV - Degree C	61	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	16.76	River Temp Sang Run @700		
T9	17.03	River Temp Sang Run @900		
T11	18.71	River Temp Sang Run @1100		
T12	20.10	River Temp Sang Run @1200		
T14	20.12	River Temp Sang Run @1400		
T15	20.19	River Temp Sang Run @1500		
Q	32.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

July 11, 2009

Simulate a Ran

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	16.11	Air Temp, Elkins WV - Degree C	61	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.52	River Temp Sang Run @700	<i>w/c</i>	
T9	18.75	River Temp Sang Run @900		
T11	20.15	River Temp Sang Run @1100		
T12	20.64	River Temp Sang Run @1200		
T14	19.43	River Temp Sang Run @1400		
T15	19.86	River Temp Sang Run @1500		
Q	29.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Run

27 = CFS River Flow at Oakland

July 12, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.3 (23 to 26.4)	Check Again at 0900
0900	23.70 (23 to 25.9)	Check Again at 1100
1100	23.37 (23 to 25.4)	Check Again at 1200
1200	23.20 (23 to 25.3)	Check Again at 1400
1400	24.77 (23 to 25.2)	Check Again at 1500
1500	25.32	Release ASAP - not later than 1530 for 1 hour

*CAME ON WITH 2 UNITS TO 19 MW AT 1524*

Tair °C	20.00	Air Temp, Elkins WV - Degree C	69	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.04	River Temp Sang Run @700		
T9	20.31	River Temp Sang Run @900		
T11	21.57	River Temp Sang Run @1100		
T12	21.96	River Temp Sang Run @1200		
T14	23.04	River Temp Sang Run @1400		
T15	24.66	River Temp Sang Run @1500		
Q	27.00	River Flow at Oakland		

*WFC*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Rar

26 = CFS River Flow at Oakland

July 13, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.40 (23 to 26.4)	Check Again at 0900
0900	21.73 (23 to 25.9)	Check Again at 1100
1100	21.28 (23 to 25.4)	Check Again at 1200
1200	21.69 (23 to 25.3)	Check Again at 1400
1400	19.02 (23 to 25.2)	Check Again at 1500
1500	20.27	Check Again Tomorrow at 0700

Tair °C	12.78	Air Temp, Elkins WV - Degree C	55	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	17.86	River Temp Sang Run @700	<i>WPC</i>	
T9	18.68	River Temp Sang Run @900		
T11	19.93	River Temp Sang Run @1100		
T12	20.82	River Temp Sang Run @1200		
T14	19.64	River Temp Sang Run @1400		
T15	20.23	River Temp Sang Run @1500		
Q	26.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

22 = CFS River Flow at Oakland

July 14, 2009

Simulate a Rar

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	18.19 (23 to 26.4)	No Further Predictions Necessary Today
0900	(23 to 25.9)	--
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	7.22	Air Temp, Elkins WV - Degree C	45	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	16.62	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	22.00	River Flow at Oakland		

*wpc*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

20 = CFS River Flow at Oakland

July 15, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500		

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	16.82	River Temp Sang Run @700		
T9	16.79	River Temp Sang Run @900		
T11	18.73	River Temp Sang Run @1100		
T12	20.33	River Temp Sang Run @1200		
T14	23.18	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	20.00	River Flow at Oakland		

B JUL 15 2009

Brought up both units wide at 14:10 until 15:30

*[Signature]*  
7-15-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

19 = CFS River Flow at Oakland

July 16, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	29.05 (23 to 26.4)	Check Again at 0900
0900	25.26 (23 to 25.9)	Check Again at 1100
1100	28.17 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.91	River Temp Sang Run @700		
T9	20.25	River Temp Sang Run @900		
T11	21.97	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	19.00	River Flow at Oakland		

*R. M. ...*

*JSJ*  
7-16-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Rar

19

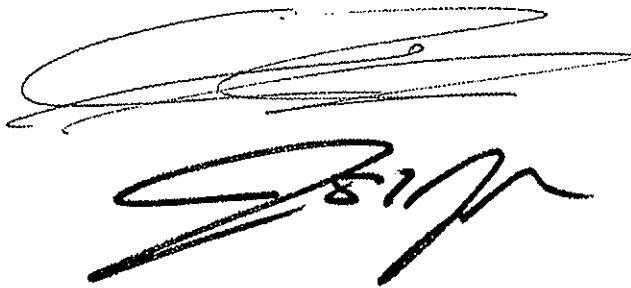
= CFS River Flow at Oakland

July 17, 2009

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.46 (23 to 26.4)	Check Again at 0900
0900	23.87 (23 to 25.9)	Check Again at 1100
1100	22.68 (23 to 25.4)	Check Again at 1200
1200	22.27 (23 to 25.3)	Check Again at 1400
1400	19.57 (23 to 25.2)	Check Again at 1500
1500	20.06	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.35	River Temp Sang Run @700		
T9	18.83	River Temp Sang Run @900		
T11	19.22	River Temp Sang Run @1100		
T12	19.34	River Temp Sang Run @1200		
T14	18.42	River Temp Sang Run @1400		
T15	19.09	River Temp Sang Run @1500		
Q	19.00	River Flow at Oakland		



7-17-09



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

78 = CFS River Flow at Oakland

July 18, 2009

Simulate a Rar

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.91 (23 to 26.4)	Check Again at 0900
0900	20.66 (23 to 25.9)	Check Again at 1100
1100	22.55 (23 to 25.4)	Check Again at 1200
1200	22.33 (23 to 25.3)	Check Again at 1400
1400	19.43 (23 to 25.2)	Check Again at 1500
1500	19.77	Check Again Tomorrow at 0700

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.15	River Temp Sang Run @700		
T9	17.89	River Temp Sang Run @900		
T11	18.99	River Temp Sang Run @1100		
T12	19.51	River Temp Sang Run @1200		
T14	18.73	River Temp Sang Run @1400		
T15	19.05	River Temp Sang Run @1500		
Q	78.00	River Flow at Oakland		

Supervisor not here !!

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ran

43 = CFS River Flow at Oakland

July 19, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	22.78	Air Temp, Elkins WV - Degree C	73	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	17.69	River Temp Sang Run @700		
T9	17.85	River Temp Sang Run @900		
T11	19.25	River Temp Sang Run @1100		
T12	19.92	River Temp Sang Run @1200		
T14	21.85	River Temp Sang Run @1400		
T15	22.26	River Temp Sang Run @1500		
Q	43.00	River Flow at Oakland		

*J-S*  
7-19-09

# YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

July 20, 2009

Place Holder

The sheet is missing for this date. A review of the Sang Run Water Temperature Monitor data indicates the temperatures did not exceed 25°C on this date, and a scheduled whitewater release was conducted from 11:00 – 14:00.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

41 = CFS River Flow at Oakland

July 21, 2009

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.18 (23 to 26.4)	Check Again at 0900
0900	22.42 (23 to 25.9)	Check Again at 1100
1100	23.51 (23 to 25.4)	Check Again at 1200
1200	23.51 (23 to 25.3)	Check Again at 1400
1400	24.63 (23 to 25.2)	Check Again at 1500
1500	25.41	Release ASAP - not later than 1530 for 1 hour

Print Info for file

Ran 1500-1600  
*[Signature]*

Tair °C	23.33	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	17.98	River Temp Sang Run @700
T9	18.33	River Temp Sang Run @900
T11	19.90	River Temp Sang Run @1100
T12	20.76	River Temp Sang Run @1200
T14	23.10	River Temp Sang Run @1400
T15	24.27	River Temp Sang Run @1500
Q	41.00	River Flow at Oakland

74	Air Temp, Elkins WV - Degree F
TSTRMS	Cloud Cover, Elkins WV

*[Signature]*  
7/21/09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

33 = CFS River Flow at Oakland

July 22, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500	(23 to 25.2)	Check Again Tomorrow at 0700

Tair °C	22.78	Air Temp, Elkins WV - Degree C	73	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.14	River Temp Sang Run @700		
T9	18.17	River Temp Sang Run @900		
T11	19.81	River Temp Sang Run @1100		
T12	20.52	River Temp Sang Run @1200		
T14	22.44	River Temp Sang Run @1400		
T15	23.03	River Temp Sang Run @1500		
Q	33.00	River Flow at Oakland		

JUL 22 2009 B

*W. K. Q.*  
7/22/2009

*Cran both units wide from 14:30 to 16:00 per Gatineau's request due to high prices)*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

30 = CFS River Flow at Oakland

July 23, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.77 (23 to 26.4)	Check Again at 0900
0900	24.03 (23 to 25.9)	Check Again at 1100
1100	23.65 (23 to 25.4)	Check Again at 1200
1200	23.95 (23 to 25.3)	Check Again at 1400
1400	24.17 (23 to 25.2)	Check Again at 1500
1500	24.64	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.80	River Temp Sang Run @700		
T9	20.08	River Temp Sang Run @900		
T11	20.74	River Temp Sang Run @1100		
T12	21.50	River Temp Sang Run @1200		
T14	22.81	River Temp Sang Run @1400		
T15	23.90	River Temp Sang Run @1500		
Q	30.00	River Flow at Oakland		

*[Handwritten signature]*  
*[Handwritten signature]*  
 7/23/09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 24, 2009

Simulate a Rar

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.02 (23 to 26.4)	Check Again at 0900
0900	25.19 (23 to 25.9)	Check Again at 1100
1100	24.91 (23 to 25.4)	Check Again at 1200
1200	24.76 (23 to 25.3)	Check Again at 1400
1400	20.49 (23 to 25.2)	Check Again at 1500
1500	20.96	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	19.88	River Temp Sang Run @700		
T9	19.98	River Temp Sang Run @900		
T11	21.13	River Temp Sang Run @1100		
T12	21.80	River Temp Sang Run @1200		
T14	20.23	River Temp Sang Run @1400		
T15	20.58	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		



7-24-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

21 = CFS River Flow at Oakland

July 25, 2009

Simulate a Run

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Release at 1100 for 2 Hours
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

*Handwritten signature*  
7-25-09

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	13.17	River Temp Sang Run @700		
T9	18.28	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	21.00	River Flow at Oakland		

*Handwritten signature*

- Note:  
- WWR from 10:00 am - 16:00 hrs  
will satisfy Temp Protocol.  
JST



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

21 = CFS River Flow at Oakland

July 26, 2009

Simulate a Run

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 25.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Release ASAP - not later than 1430 for 1 hour. River Temp > 25
1500	--	--

Print info for file

*JG*  
7-26-09

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	75TRMS	Cloud Cover, Elkins WV
T7	19.05	River Temp Sang Run @700		
T9	19.38	River Temp Sang Run @900		
T11	20.12	River Temp Sang Run @1100		
T12	20.50	River Temp Sang Run @1200		
T14	26.50	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	21.00	River Flow at Oakland		

*JG*

19.0 Mw  
full  
2 units

⊗ Decided to run 2 hrs due to high water TEMP!

- JG  
7-26-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

45 = CFS River Flow at Oakland

July 27, 2009

Simulate a Ran

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

*JG*  
7-27-09

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.53	River Temp Sang Run @700		
T9	18.83	River Temp Sang Run @900		
T11	20.82	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	45.00	River Flow at Oakland		

*WHILE WATER RELEASE  
BEGAN AT 1200 WITH  
2 UNITS AND 19mW*

*WWR @ 11:00 till 2pm  
TEMP run from 12:30 - 2:30pm  
Therefore we will run till  
3pm to satisfy both  
requirements.*

*JG*  
7-27-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

26 = CFS River Flow at Oakland

July 28, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.99 (23 to 26.4)	Check Again at 0900
0900	25.61 (23 to 25.9)	Check Again at 1100
1100	25.72 (23 to 25.4)	Release at 1230 for 2 Hours
1200		--
1400		--
1500		--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	19.07	River Temp Sang Run @700		
T9	18.91	River Temp Sang Run @900		
T11	20.39	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	26.00	River Flow at Oakland		

*N. K. Q 7/29/09*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Run

21 = CFS River Flow at Oakland

July 29, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.97 (23 to 26.4)	Check Again at 0900
0900	21.94 (23 to 25.9)	Check Again at 1100
1100	22.76 (23 to 25.4)	Check Again at 1200
1200	22.69 (23 to 25.3)	Check Again at 1400
1400	22.77 (23 to 25.2)	Check Again at 1500
1500	22.42	Check Again Tomorrow at 0700

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.07	River Temp Sang Run @700	<i>WPL</i>	
T9	20.00	River Temp Sang Run @900		
T11	20.53	River Temp Sang Run @1100		
T12	20.90	River Temp Sang Run @1200		
T14	21.73	River Temp Sang Run @1400		
T15	21.73	River Temp Sang Run @1500		
Q	21.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

26 = CFS River Flow at Oakland

July 30, 2009

Simulate a Rar

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.40 (23 to 26.4)	Check Again at 0900
0900	23.60 (23 to 25.9)	Check Again at 1100
1100	23.20 (23 to 25.4)	Check Again at 1200
1200	23.35 (23 to 25.3)	Check Again at 1400
1400	23.02 (23 to 25.2)	Check Again at 1500
1500	23.26	Check Again Tomorrow at 0700

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.76	River Temp Sang Run @700	<i>WPC</i>	
T9	19.96	River Temp Sang Run @900		
T11	20.55	River Temp Sang Run @1100		
T12	21.17	River Temp Sang Run @1200		
T14	22.64	River Temp Sang Run @1400		
T15	23.35	River Temp Sang Run @1500		
Q	26.00	River Flow at Oakland		

JUL 30 2009

*AB*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Rar

45 = CFS River Flow at Oakland

July 31, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.17 (23 to 26.4)	Check Again at 0900
0900	23.32 (23 to 25.9)	Check Again at 1100
1100	22.95 (23 to 25.4)	Check Again at 1200
1200	22.73 (23 to 25.3)	Check Again at 1400
1400	20.11 (23 to 25.2)	Check Again at 1500
1500	20.49	Check Again Tomorrow at 0700

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.33	River Temp Sang Run @700		
T9	20.46	River Temp Sang Run @900		
T11	20.57	River Temp Sang Run @1100		
T12	20.68	River Temp Sang Run @1200		
T14	19.50	River Temp Sang Run @1400		
T15	19.88	River Temp Sang Run @1500		
Q	45.00	River Flow at Oakland		

*[Signature]*  
 JUL 31 2009  
*William B. Calusa*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

328 = CFS River Flow at Oakland

August 1, 2009

Simulate a Rain

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	20.33	River Temp Sang Run @700	<i>wpc</i>	
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	328.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

127 = CFS River Flow at Oakland

August 2, 2009

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	<del>21.30</del> (23 to 26.4)	Check Again at 0900
0900	<del>20.23</del> (23 to 25.9)	Check Again at 1100
1100	<del>23.65</del> (23 to 25.4)	Check Again at 1200
1200	<del>23.80</del> (23 to 25.3)	Check Again at 1400
1400	<del>23.35</del> (23 to 25.2)	Check Again at 1500
1500	<del>23.75</del>	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.77	River Temp Sang Run @700		
T9	20.77	River Temp Sang Run @900		
T11	21.16	River Temp Sang Run @1100		
T12	21.80	River Temp Sang Run @1200		
T14	22.34	River Temp Sang Run @1400		
T15	23.02	River Temp Sang Run @1500		
Q	127.00	River Flow at Oakland		

*400*



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

161 = CFS River Flow at Oakland

August 3, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.07 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS  Jed 8-3-09
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	20.51	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	161.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


Simulate a Ran

103 = CFS River Flow at Oakland

August 4, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.4 (23 to 26.4)	Check Again at 0900
0900	25.9 (23 to 25.9)	Check Again at 1100
1100	25.4 (23 to 25.4)	Check Again at 1200
1200	25.3 (23 to 25.3)	Check Again at 1400
1400	25.2 (23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.52	River Temp Sang Run @700		
T9	19.34	River Temp Sang Run @900		
T11	20.19	River Temp Sang Run @1100		
T12	20.04	River Temp Sang Run @1200		
T14	21.01	River Temp Sang Run @1400		
T15	21.06	River Temp Sang Run @1500		
Q	103.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

73

= CFS River Flow at Oakland

August 5, 2009

Simulate a Ran


Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.25 (23 to 26.4)	Check Again at 0900
0900	22.81 (23 to 25.9)	Check Again at 1100
1100	23.63 (23 to 25.4)	Check Again at 1200
1200	23.71 (23 to 25.3)	Check Again at 1400
1400	23.53 (23 to 25.2)	Check Again at 1500
1500	23.63	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	19.86	River Temp Sang Run @700
T9	20.05	River Temp Sang Run @900
T11	20.65	River Temp Sang Run @1100
T12	20.77	River Temp Sang Run @1200
T14	21.99	River Temp Sang Run @1400
T15	22.63	River Temp Sang Run @1500
Q	73.00	River Flow at Oakland

78  
TSTRMS

Air Temp, Elkins WV - Degree F  
Cloud Cover, Elkins WV

  
8-5-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

56 = CFS River Flow at Oakland

August 6, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.27 (23 to 26.4)	Check Again at 0900
0900	24.15 (23 to 25.9)	Check Again at 1100
1100	25.11 (23 to 25.4)	Check Again at 1200
1200	25.15 (23 to 25.3)	Check Again at 1400
1400	25.84 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500		--

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	20.22	River Temp Sang Run @700		
T9	20.07	River Temp Sang Run @900		
T11	21.25	River Temp Sang Run @1100		
T12	22.10	River Temp Sang Run @1200		
T14	24.27	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	56.00	River Flow at Oakland		

*J.S.J.*  
8-6-09

\* Run 2 hrs 19 min

14:10 hrs - 16:10 hrs

*J.S.J.*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

45 = CFS River Flow at Oakland

August 7, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.34 (23 to 26.4)	Check Again at 0900
0900	23.92 (23 to 25.9)	Check Again at 1100
1100	25.31 (23 to 25.4)	Check Again at 1200
1200	24.80 (23 to 25.3)	Check Again at 1400
1400	22.19 (23 to 25.2)	Check Again at 1500
1500	21.82	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	19.12	River Temp Sang Run @700	<i>wpc</i>	
T9	18.80	River Temp Sang Run @900		
T11	20.62	River Temp Sang Run @1100		
T12	21.23	River Temp Sang Run @1200		
T14	21.19	River Temp Sang Run @1400		
T15	21.15	River Temp Sang Run @1500		
Q	45.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Run

36 = CFS River Flow at Oakland

August 8, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.86 (23 to 26.4)	Check Again at 0900
0900	23.71 (23 to 25.9)	Check Again at 1100
1100	25.09 (23 to 25.4)	Check Again at 1200
1200	25.18 (23 to 25.3)	Check Again at 1400
1400	21.31 (23 to 25.2)	Check Again at 1500
1500	21.51	Check Again Tomorrow at 0700

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.23	River Temp Sang Run @700		
T9	19.25	River Temp Sang Run @900		
T11	20.99	River Temp Sang Run @1100		
T12	22.04	River Temp Sang Run @1200		
T14	20.82	River Temp Sang Run @1400		
T15	21.05	River Temp Sang Run @1500		
Q	36.00	River Flow at Oakland		

*VR*  
*R. M. M.*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

30 = CFS River Flow at Oakland

August 9, 2009

Simulate a Rar

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.86 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

*J-J*  
8-9-09

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.03	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	30.00	River Flow at Oakland		

*[Handwritten signature]*

⊗

2 Hr run

19 MW

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Run

27 = CFS River Flow at Oakland

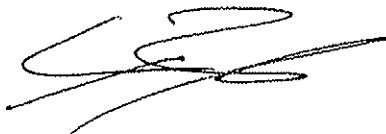
August 10, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.84 (23 to 26.4)	Check Again at 0900
0900	25.31 (23 to 25.9)	Check Again at 1100
1100	25.64 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.37	River Temp Sang Run @700		
T9	21.76	River Temp Sang Run @900		
T11	22.88	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	27.00	River Flow at Oakland		

*WPC*



\* Scheduled release from 11:00 - 18:00



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

26 = CFS River Flow at Oakland

August 11, 2009

Simulate a Bar

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.67 (23 to 26.4)	Release at 1100 for 2 Hours
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

*DM*

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	21.60	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	26.00	River Flow at Oakland		

*WPC*

SANG RUN CURVE WAS UNAVAILABLE UNTIL 0752. THE 0700 READ WAS TAKEN AT THAT TIME. THE TEMP RUN IS SCHEDULED FOR 11AM AND A DAY AHEAD RUN WAS SCHEDULED FOR 1200 UNTIL 1800 SO A ONE HOUR OVER LAMP OCCURS

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ran

39 = CFS River Flow at Oakland

August 12, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.00 (23 to 26.4)	Check Again at 0900
0900	23.11 (23 to 25.9)	Check Again at 1100
1100	23.33 (23 to 25.4)	Check Again at 1200
1200	23.35 (23 to 25.3)	Check Again at 1400
1400	23.32 (23 to 25.2)	Check Again at 1500
1500	23.76	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWR9	Cloud Cover, Elkins WV
T7	20.77	River Temp Sang Run @700		
T9	20.89	River Temp Sang Run @900		
T11	21.72	River Temp Sang Run @1100		
T12	22.47	River Temp Sang Run @1200		
T14	23.68	River Temp Sang Run @1400		
T15	24.07	River Temp Sang Run @1500		
Q	39.00	River Flow at Oakland		

*[Handwritten signature]*  
8-12-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

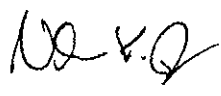
41 = CFS River Flow at Oakland

August 13, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.38 (23 to 26.4)	Check Again at 0900
0900	25.10 (23 to 25.9)	Check Again at 1100
1100	25.90 (23 to 25.4)	Release at 1230 for 2 Hours
1200	25.65 (23 to 25.3)	--
1400	25.65 (23 to 25.2)	--
1500		--

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	20.07	River Temp Sang Run @700		
T9	19.82	River Temp Sang Run @900		
T11	21.92	River Temp Sang Run @1100		
T12	22.86	River Temp Sang Run @1200		
T14	24.38	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	41.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29

= CFS River Flow at Oakland

August 14, 2009

Simulate a Ran

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.17 (23 to 26.4)	Check Again at 0900
0900	21.16 (23 to 25.9)	Check Again at 1100
1100	23.01 (23 to 25.4)	Check Again at 1200
1200	23.11 (23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
1400	21.33 (23 to 25.2)	--
1500	22.32	--

*Steph...* River Note

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.82	River Temp Sang Run @700		
T9	21.16	River Temp Sang Run @900		
T11	22.17	River Temp Sang Run @1100		
T12	23.27	River Temp Sang Run @1200		
T14	21.44	River Temp Sang Run @1400		
T15	22.39	River Temp Sang Run @1500		
Q	29.00	River Flow at Oakland		

*J-J*  
8.14.09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ran

22 = CFS River Flow at Oakland

August 15, 2009

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	<del>25.9</del> (23 to 26.4)	Check Again at 0900
0900	<del>28.0</del> (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

*Jy*

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.07	River Temp Sang Run @700		
T9	20.21	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	22.00	River Flow at Oakland		

*Styler*  
*Jy*  
8-15-09

⊕ WWK scheduled from 1100 hrs - 1400 hrs  
2 units - 19 MW - 620 CFS

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

20 = CFS River Flow at Oakland

August 16, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.60 (23 to 26.4)	Check Again at 0900
0900	25.08 (23 to 25.9)	Check Again at 1100
1100	26.69 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.45	River Temp Sang Run @700		
T9	20.19	River Temp Sang Run @900		
T11	22.11	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	20.00	River Flow at Oakland		

*R. J. [Signature]*

*[Signature]*  
8-11-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

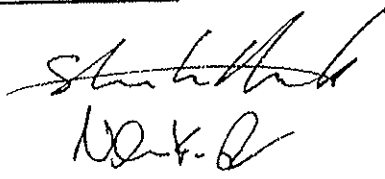
Simulate a Ran

17 = CFS River Flow at Oakland

August 17, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.03 (23 to 26.4)	Release at 1100 for 2 Hours
0900	(23 to 25.9)	--
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	20.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	17.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ran

17 = CFS River Flow at Oakland

August 18, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.06 (23 to 26.4)	Check Again at 0900
0900	25.16 (23 to 25.9)	Check Again at 1100
1100	25.98 (23 to 25.4)	Release at 1230 for 2 Hours
1200		--
	(23 to 25.3)	
1400		--
	(23 to 25.2)	
1500		--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.90	River Temp Sang Run @700		
T9	20.16	River Temp Sang Run @900		
T11	21.78	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	17.00	River Flow at Oakland		

*W. K. Q.*



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ran

26 = CFS River Flow at Oakland

August 19, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.2 (23 to 26.4)	Check Again at 0900
0900	25.9 (23 to 25.9)	Check Again at 1100
1100	25.1 (23 to 25.4)	Check Again at 1200
1200	25.3 (23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
1400	(23 to 25.2)	--
1500		--

Tair °C	26.67	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	20.47	River Temp Sang Run @700
T9	20.45	River Temp Sang Run @900
T11	21.46	River Temp Sang Run @1100
T12	22.42	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	26.00	River Flow at Oakland

80  
SHWRS

Air Temp, Elkins WV - Degree F  
Cloud Cover, Elkins WV

*Handwritten signature*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ran

22 = CFS River Flow at Oakland

August 20, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.0 (23 to 26.4)	Check Again at 0900
0900	23.5 (23 to 25.9)	Check Again at 1100
1100	23.1 (23 to 25.4)	Check Again at 1200
1200	21.9 (23 to 25.3)	Check Again at 1400
1400	25.9 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500		--

Tair °C	27.22	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	21.40	River Temp Sang Run @700
T9	21.05	River Temp Sang Run @900
T11	21.67	River Temp Sang Run @1100
T12	22.44	River Temp Sang Run @1200
T14	24.35	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	22.00	River Flow at Oakland

81

TSTRMS

Air Temp, Elkins WV - Degree F  
Cloud Cover, Elkins WV

*OFF*  
RELEASE BEGAN AT 1409  
RAN 2 HRS

*Went to*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

19 = CFS River Flow at Oakland

August 21, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.97 (23 to 26.4)	Check Again at 0900
0900	21.95 (23 to 25.9)	Check Again at 1100
1100	21.83 (23 to 25.4)	Check Again at 1200
1200	21.81 (23 to 25.3)	Check Again at 1400
1400	22.07 (23 to 25.2)	Check Again at 1500
1500	22.17	Check Again Tomorrow at 0700

*JJA*

*JJA*  
JCE

Tair °C	27.22	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	21.23	River Temp Sang Run @700
T9	21.25	River Temp Sang Run @900
T11	21.39	River Temp Sang Run @1100
T12	21.83	River Temp Sang Run @1200
T14	21.22	River Temp Sang Run @1400
T15	22.40	River Temp Sang Run @1500
Q	19.00	River Flow at Oakland

81  
TSTRMS

Air Temp, Elkins WV - Degree F  
Cloud Cover, Elkins WV

*JJA*  
8-21-09

⊗ WWR 11:00 - 2:00 pm  
2 units wide = 19.0 MW  
or  
620 CFS

*JJA*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ran

109 = CFS River Flow at Oakland August 22, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.76 (23 to 26.4)	Check Again at 0900
0900	21.63 (23 to 25.9)	Check Again at 1100
1100	22.33 (23 to 25.4)	Check Again at 1200
1200	21.73 (23 to 25.3)	Check Again at 1400
1400	21.15 (23 to 25.2)	Check Again at 1500
1500	21.77	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.50	River Temp Sang Run @700		
T9	21.72	River Temp Sang Run @900		
T11	22.29	River Temp Sang Run @1100		
T12	22.93	River Temp Sang Run @1200		
T14	21.15	River Temp Sang Run @1400		
T15	21.57	River Temp Sang Run @1500		
Q	109.00	River Flow at Oakland		

*Handwritten signature and date: 8-22-09*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Run

41 = CFS River Flow at Oakland

August 23, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.06 (23 to 26.4)	Check Again at 0900
0900	23.71 (23 to 25.9)	Check Again at 1100
1100	23.71 (23 to 25.4)	Check Again at 1200
1200	23.86 (23 to 25.3)	Check Again at 1400
1400	23.83 (23 to 25.2)	Check Again at 1500
1500	23.83	Check Again Tomorrow at 0700 ✓

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.69	River Temp Sang Run @700		
T9	20.74	River Temp Sang Run @900		
T11	21.17	River Temp Sang Run @1100		
T12	21.73	River Temp Sang Run @1200		
T14	23.03	River Temp Sang Run @1400		
T15	23.73	River Temp Sang Run @1500		
Q	41.00	River Flow at Oakland		

*f = g*  
8-23-09

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ran

26 = CFS River Flow at Oakland

August 24, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.16 (23 to 26.4)	Check Again at 0900
0900	22.93 (23 to 25.9)	Check Again at 1100
1100	22.78 (23 to 25.4)	Check Again at 1200
1200	21.70 (23 to 25.3)	Check Again at 1400
1400	21.93 (23 to 25.2)	Check Again at 1500
1500	22.33	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	19.11	River Temp Sang Run @700		
T9	19.11	River Temp Sang Run @900		
T11	20.39	River Temp Sang Run @1100		
T12	21.08	River Temp Sang Run @1200		
T14	20.97	River Temp Sang Run @1400		
T15	21.85	River Temp Sang Run @1500		
Q	26.00	River Flow at Oakland		

*J-J*

8-24-09

WWR 11:00-2:00 pm

2 units 19 MW

*J-J*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

21 = CFS River Flow at Oakland

August 25, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.15 (23 to 26.4)	Check Again at 0900
0900	25.16 (23 to 25.9)	Check Again at 1100
1100	25.08 (23 to 25.4)	Check Again at 1200
1200	24.89 (23 to 25.3)	Check Again at 1400
1400	24.53 (23 to 25.2)	Check Again at 1500
1500	24.78	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.17	River Temp Sang Run @700		
T9	18.33	River Temp Sang Run @900		
T11	19.88	River Temp Sang Run @1100		
T12	20.78	River Temp Sang Run @1200		
T14	22.59	River Temp Sang Run @1400		
T15	23.55	River Temp Sang Run @1500		
Q	21.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Rar

19

= CFS River Flow at Oakland

August 26, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.65 (23 to 26.4)	Check Again at 0900
0900	25.30 (23 to 25.9)	Check Again at 1100
1100	25.03 (23 to 25.4)	Check Again at 1200
1200	24.91 (23 to 25.3)	Check Again at 1400
1400	25.52 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500		--

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.59	River Temp Sang Run @700		
T9	18.45	River Temp Sang Run @900		
T11	19.72	River Temp Sang Run @1100		
T12	20.65	River Temp Sang Run @1200		
T14	23.18	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	19.00	River Flow at Oakland		

RELEASE AT 1400 - 1500 19 MW



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

17 = CFS River Flow at Oakland

August 27, 2009

Simulate a Ran

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.89 (23 to 26.4)	Check Again at 0900
0900	27.85 (23 to 25.9)	Check Again at 1100
1100	27.82 (23 to 25.4)	Check Again at 1200
1200	26.10 (23 to 25.3)	Check Again at 1400
1400	25.24 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500		

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.27	River Temp Sang Run @700	<i>WPC</i>	
T9	19.16	River Temp Sang Run @900		
T11	20.76	River Temp Sang Run @1100		
T12	21.70	River Temp Sang Run @1200		
T14	23.48	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	17.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ran

16 = CFS River Flow at Oakland

August 28, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.4 (23 to 26.4)	Check Again at 0900
0900	25.9 (23 to 25.9)	Check Again at 1100
1100	25.4 (23 to 25.4)	Check Again at 1200
1200	25.3 (23 to 25.3)	Check Again at 1400
1400	25.2 (23 to 25.2)	Check Again at 1500
1500	25.0	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.59	River Temp Sang Run @700	<i>wpc</i>	
T9	19.62	River Temp Sang Run @900		
T11	20.25	River Temp Sang Run @1100		
T12	20.61	River Temp Sang Run @1200		
T14	20.28	River Temp Sang Run @1400		
T15	21.20	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

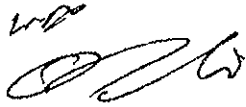
Simulate a Run

15 = CFS River Flow at Oakland

August 29, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.33 (23 to 26.4)	Check Again at 0900
0900	23.25 (23 to 25.9)	Check Again at 1100
1100	22.66 (23 to 25.4)	Check Again at 1200
1200	23.49 (23 to 25.3)	Check Again at 1400
1400	20.38 (23 to 25.2)	Check Again at 1500
1500	22.51	Check Again Tomorrow at 0700

Tair °C	23.33	Air Temp, Elkins WV - Degree C	74	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.09	River Temp Sang Run @700		
T9	20.02	River Temp Sang Run @900		
T11	20.30	River Temp Sang Run @1100		
T12	21.44	River Temp Sang Run @1200		
T14	20.12	River Temp Sang Run @1400		
T15	21.91	River Temp Sang Run @1500		
Q	15.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Rar

19 = CFS River Flow at Oakland

August 30, 2009

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.54 (23 to 26.4)	Check Again at 0900
0900	22.94 (23 to 25.9)	Check Again at 1100
1100	22.47 (23 to 25.4)	Check Again at 1200
1200	22.74 (23 to 25.3)	Check Again at 1400
1400	23.75 (23 to 25.2)	Check Again at 1500
1500	23.57	Check Again Tomorrow at 0700

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	18.15	River Temp Sang Run @700	<i>WPC</i>	
T9	17.65	River Temp Sang Run @900		
T11	18.49	River Temp Sang Run @1100		
T12	19.47	River Temp Sang Run @1200		
T14	21.82	River Temp Sang Run @1400		
T15	22.35	River Temp Sang Run @1500		
Q	19.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18

= CFS River Flow at Oakland

August 31, 2009

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.31 (23 to 26.4)	Check Again at 0900
0900	22.79 (23 to 25.9)	Check Again at 1100
1100	22.86 (23 to 25.4)	Check Again at 1200
1200	22.69 (23 to 25.3)	Check Again at 1400
1400	20.36 (23 to 25.2)	Check Again at 1500
1500	22.92	Check Again Tomorrow at 0700

Tair °C	22.78	Air Temp, Elkins WV - Degree C	73	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	16.96	River Temp Sang Run @700		
T9	16.63	River Temp Sang Run @900		
T11	17.92	River Temp Sang Run @1100		
T12	18.88	River Temp Sang Run @1200		
T14	19.01	River Temp Sang Run @1400		
T15	21.59	River Temp Sang Run @1500		
Q	18.00	River Flow at Oakland		



**APPENDIX C**

**BYPASS FLOW OPERATION DATA TABLE AND  
USGS PROVISIONAL WATER DISCHARGE DATA TABLE**



2009 Youghiogheny River Bypass Flow Provision				
Month	Day	Flow at Oakland Gage	Bypass Flow Required	% Valve Open
July	16	19	2	22
July	17	19	2	22
August	17	17	5	26
August	18	17	5	26
August	21	19	2	22
August	26	19	2	22
August	27	17	5	26
August	28	16	6	27
August	29	15	8	30
August	30	19	2	22
August	31	18	3	23
September	1	14	9	32
September	2	12	12	36
September	3	11	14	39
September	4	10	15	40
September	5	9	17	42
September	6	8.7	18	44
September	7	9	17	42
September	8	9.3	17	42
September	9	11	14	39
September	10	12	12	36
September	11	11	14	39
September	12	8.7	18	44
September	13	8	18	44
September	14	8	18	44
September	15	8.7	18	44
September	16	8	18	44
September	17	7.5	20	47
September	18	7	20	47
September	19	6.5	21	48
September	20	6.5	21	48
September	21	6	21	48
September	22	7.5	20	47
September	23	7.5	20	47
September	24	7.5	20	47
September	25	15	8	30
September	26	14	9	32
October	7	19	2	22
October	8	15	8	30
October	9	19	2	22



**USGS PROVISIONAL WATER DISCHARGE DATA FOR THE OAKLAND GAGE (GAGE NO. 03075500)  
FROM JANUARY 1, 2009 THROUGH DECEMBER 31, 2009 (mean cfs)**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Day of Month												
1	284	180	283	283	339	143	72	248	13	115	243	226
2	220	150	253	252	685	113	121	171	12	50	202	174
3	180	125	223	473	885	110	95	157	10	42	170	449
4	150	105	214	754	2490	226	80	94	9.5	36	146	404
5	120	85	200	498	2240	1150	63	68	9	26	128	312
6	295	70	178	443	1610	840	54	53	8.3	21	112	254
7	1770	219	177	458	1540	423	47	41	8.8	17	97	206
8	1690	1770	164	417	1010	278	40	34	10	15	87	185
9	792	1520	148	465	697	210	34	29	11	25	77	No Data
10	603	1000	139	421	489	183	31	27	11	115	72	2130
11	1940	1600	130	807	377	163	29	31	9.6	99	67	793
12	984	1320	117	729	351	170	27	41	8.1	59	60	476
13	634	793	111	535	273	133	25	37	7.9	60	56	437
14	468	563	109	425	233	105	21	27	8	42	54	626
15	368	438	106	549	213	87	19	22	8.4	48	50	479
16	277	300	105	698	190	74	18	19	7.9	118	48	381
17	240	230	120	522	220	110	24	17	7.3	100	45	292
18	200	190	110	383	175	764	70	19	6.5	95	43	242
19	170	290	103	328	158	370	36	24	6.3	93	46	191
20	140	230	101	386	143	701	27	21	6.1	75	62	230
21	110	180	95	776	130	682	42	66	6.9	61	52	187
22	90	150	93	649	120	385	36	76	7.5	52	45	158
23	80	120	89	772	109	268	28	35	7.4	49	43	143
24	140	90	85	594	132	199	23	25	7.7	1010	51	133
25	120	75	84	453	99	158	20	21	12	663	50	130
26	95	209	233	357	87	131	32	18	18	308	48	158
27	75	311	399	293	145	116	38	17	43	209	48	170
28	160	335	446	245	669	95	24	15	38	468	52	152
29	300		433	262	270	83	21	16	29	364	57	126
30	230		482	308	189	72	44	19	90	259	164	151
31	200		374		180		230	16		213		137

The above data, obtained from the automated U.S. Geological Survey database, have not received Director's approval and as such are provisional and subject to revision. The data are released on the condition that neither the USGS nor the United States Government may be held liable for any damages resulting from its use.



**APPENDIX D**

**DISSOLVED OXYGEN MONITORING LOGS**

DEEP CREEK DISSOLVED OXYGEN LOG

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION		DO MEASUREMENTS			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C					
6/1/2009	10:21	19.7	8.49	10:31	11.9	9.94	0	4 - OPEN	2022.2	xxxxxxx 2028.0
6/1/2009	11:25	19.5	8.53	11:35	13.7	9.20	2	4 - OPEN	2022.2	xxxxxxx
6/1/2009	14:10	21.1	8.40	14:30	14.3	9.60	0	4 - OPEN	2022.2	xxxxxxx
6/6/2009	9:27	20.1	8.43	9:30	12.3	8.81	0	4 - OPEN	2023.6	xxxxxxx
6/6/2009	10:27	19.6	8.50	10:30	15.1	9.22	2	4 - OPEN	2023.6	2028.1
6/7/2009	7:29	19.9	8.45	7:33	12.1	7.93	0	4 - OPEN	2022.9	xxxxxxx
6/7/2009	8:29	18.7	8.66	8:32	13.5	8.70	2	4 - OPEN	2022.9	2025.8
6/7/2009	12:30	24.6	7.72	12:34	14.2	8.30	0	4 - OPEN	2022.9	xxxxxxx
6/8/2009	7:31	22.1	8.10	7:34	12.3	8.61	0	4 - OPEN	2022.6	xxxxxxx
6/8/2009	11:16	26.1	7.49	11:25	14.9	9.50	2	4 - OPEN	2022.6	2028.0
6/9/2009	11:16	25.7	7.52	11:30	12.4	8.07	0	4 - OPEN	2022.4	xxxxxxx
6/9/2009	14:28	24.6	7.64	14:35	13.5	9.50	2	4 - OPEN	2022.4	2026.0
6/11/2009	10:15	24.0	7.79	10:29	12.2	7.78	0	4 - OPEN	2022.4	xxxxxxx
6/11/2009	11:30	22.1	8.08	11:40	13.5	8.45	2	4 - OPEN	2022.4	2026.6
6/15/2009	10:15	28.7	7.08	10:30	12.2	8.00	0	4 - OPEN	2022.0	xxxxxxx
6/15/2009	11:15	23.6	7.82	11:30	14.7	8.92	2	4 - OPEN	2022.0	2028.0
6/15/2009	14:15	24.0	7.79	14:30	15.3	7.90	0	4 - OPEN	2022.0	xxxxxxx
6/16/2009	14:00	24.9	7.69	14:03	14.6	8.95	2	4 - OPEN	2022.0	2026.1
6/18/2009	7:26	22.4	8.00	7:34	14.0	7.70	0	4 - OPEN	2023.5	xxxxxxx
6/18/2009	10:28	23.2	7.94	10:32	16.0	8.74	2	4 - OPEN	2023.5	2028.1
6/19/2009	8:00	22.2	8.06	8:05	14.6	8.47	2	4 - OPEN	xxxxxxx	2026.3
6/20/2009	8:28	24.5	7.59	8:36	14.1	7.45	0	4 - OPEN	2022.7	xxxxxxx
6/20/2009	9:24	25.7	7.17	9:32	14.5	7.11	2	4 - OPEN	2022.7	2025.8





DEEP CREEK DISSOLVED OXYGEN LOG

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION		DO MEASUREMENTS			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C					
7/10/2009	10:28	21.5	8.18	10:30	13.3	5.27	0	4 - OPEN	2021.7	xxxxxxx
7/10/2009	11:46	23.3	7.88	11:53	17.6	6.65	2	4 - OPEN	2021.7	2028.0
7/10/2009	14:30	23.2	7.90	14:35	18.3	6.07	0	4 - OPEN	2021.7	xxxxxxx
7/11/2009	10:35	23.7	7.84	10:40	14.0	5.55	0	4 - OPEN	2021.7	xxxxxxx
7/11/2009	11:52	25.4	7.50	11:55	17.8	7.10	2	4 - OPEN	2021.7	2028.0
7/11/2009	14:20	25.5	7.58	14:25	17.8	5.81	0	4 - OPEN	2021.7	xxxxxxx
7/13/2009	10:22	23.0	7.90	10:31	13.6	5.00	0	4 - OPEN	2021.7	xxxxxxx
7/13/2009	11:27	23.6	7.61	11:35	17.0	6.27	2	4 - OPEN	2021.7	2028.0
7/13/2009	14:27	25.0	7.59	14:36	17.8	5.74	0	4 - OPEN	2021.7	xxxxxxx
7/15/2009	14:34	24.4	7.67	14:40	17.3	6.46	2	4 - OPEN	2021.6	2028.0
7/16/2009	13:01	26.9	7.34	13:11	17.2	6.39	2	4 - OPEN	2021.6	2028.0
7/17/2009	10:30	23.8	7.92	10:35	13.7	4.84	0	4 - OPEN	2021.6	xxxxxxx
7/17/2009	11:42	21.2	8.08	11:48	17.6	6.15	2	4 - OPEN	2021.6	2028.0
7/17/2009	14:30	22.5	8.00	14:35	18.8	6.20	0	4 - OPEN	2021.6	xxxxxxx
7/18/2009	10:30	20.4	8.35	10:35	14.2	4.62	0	4 - OPEN	2021.8	xxxxxxx
7/18/2009	11:40	22.4	8.05	11:45	17.2	6.34	2	4 - OPEN	2021.8	2028.0
7/18/2009	14:25	22.4	8.03	14:30	17.6	4.90	0	4 - OPEN	2021.8	xxxxxxx
7/20/2009	10:30	21.8	8.11	10:35	14.0	4.55	0	4 - OPEN	2021.8	xxxxxxx
7/20/2009	11:38	22.0	8.10	11:45	17.4	6.14	2	4 - OPEN	2021.8	2028.0
7/20/2009	14:25	24.6	7.66	14:30	18.4	5.27	0	4 - OPEN	2021.8	xxxxxxx
7/24/2009	10:30	23.4	7.87	10:37	13.7	4.65	0	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
7/24/2009	11:30	23.2	7.90	11:35	17.1	7.27	2	2 - Closed 2 - Open 6"	2021.7	2028.4
7/24/2009	14:30	23.5	7.83	14:35	17.7	4.80	0	2 - Closed 2 - Open 6"	2021.7	xxxxxxx

DEEP CREEK DISSOLVED OXYGEN LOG

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION			DO MEASUREMENTS			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
7/25/2009	9:30	22.4	8.04	9:35	13.9	4.27	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
7/25/2009	10:35	22.0	8.09	10:40	17.9	7.21	2	10:00 - 16:00	2 - Closed 2 - Open 6"	2021.7	2028.4
7/27/2009	10:30	26.3	7.47	10:35	14.3	4.26	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
7/27/2009	11:32	23.6	7.81	11:37	18.0	6.95	2	11:00 - 15:00	2 - Closed 2 - Open 6"	2021.7	2028.4
7/28/2009	14:15	24.6	7.62	14:23	18.3	7.12	2	12:30 - 14:30	2 - Closed 2 - Open 6"	2021.7	2028.4
7/31/2009	10:40	21.7	8.15	10:45	18.2	4.20	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
7/31/2009	11:25	20.5	8.60	11:30	18.0	6.60	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.7	2028.5
7/31/2009	14:25	21.9	8.10	14:30	18.2	4.50	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
8/1/2009	9:30	23.2	7.91	9:35	14.1	3.16	0	xxxxxxx	2 - Closed 2 - Open 6"	2022.8	xxxxxxx
8/1/2009	10:30	19.6	8.48	10:37	18.2	6.78	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2022.8	2028.5
8/1/2009	13:40	25.2	7.66	13:45	18.7	4.70	0	xxxxxxx	2 - Closed 2 - Open 6"	2022.8	xxxxxxx
8/3/2009	10:28	23.1	7.50	10:40	14.2	3.20	0	xxxxxxx	2 - Closed 2 - Open 6"	2022.3	xxxxxxx
8/3/2009	11:33	23.1	7.59	11:39	18.0	6.47	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2022.3	2028.5
8/3/2009	14:30	24.0	7.73	14:35	18.9	4.13	0	xxxxxxx	2 - Closed 2 - Open 6"	2022.3	xxxxxxx
8/4/2009	8:22	21.4	7.99	8:30	14.4	2.75	0	xxxxxxx	2 - Closed 2 - Open 6"	2022.1	xxxxxxx
8/4/2009	9:27	20.2	8.15	9:34	18.3	6.53	2	09:00 - 21:00	2 - Closed 2 - Open 6"	2022.1	2028.5
8/6/2009	14:30	22.9	7.98	14:35	18.1	7.16	2	14:00 - 16:00	2 - Closed 2 - Open 6"	2021.8	2028.5
8/7/2009	10:25	21.7	8.15	10:30	18.3	7.13	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
8/7/2009	11:45	22.1	8.01	11:48	18.4	7.20	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.8	2028.5
8/7/2009	14:30	24.5	7.83	14:35	18.9	4.27	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
8/8/2009	10:27	21.7	8.10	10:35	14.5	3.40	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
8/8/2009	11:30	23.2	7.92	11:35	18.8	6.93	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.7	2028.5
8/8/2009	14:25	24.6	7.82	14:30	18.0	4.26	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
8/9/2009	11:40	26.3	7.34	11:47	18.2	6.60	2	11:00 - 13:00	2 - Closed 2 - Open 6"	2021.7	2028.5

DEEP CREEK DISSOLVED OXYGEN LOG

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
8/9/2009	13:28	24.9	7.78	13:34	19.4	3.53	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
8/10/2009	10:30	25.8	7.47	10:37	14.8	3.06	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
8/10/2009	11:40	26.4	7.33	11:45	18.2	6.47	2	11:00 - 18:00	2 - Closed 2 - Open 6"	2021.7	2028.5
8/13/2009	11:30	24.4	7.72	11:37	14.7	3.02	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
8/13/2009	12:05	23.8	8.04	12:10	19.2	7.02	2	12:00 - 14:30	2 - Closed 2 - Open 6"	2021.8	2028.5
8/14/2009	10:33	22.9	7.94	10:37	14.2	3.06	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
8/14/2009	11:31	23.3	7.77	11:36	19.1	6.59	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.7	2028.5
8/15/2009	10:20	24.2	7.65	10:26	14.8	3.08	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
8/15/2009	11:24	24.8	7.59	11:30	19.4	6.74	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.7	2028.5
8/15/2009	14:21	26.0	7.35	14:29	19.6	4.21	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
8/16/2009	14:00	28.7	6.99	14:07	19.1	6.70	2	12:30 - 15:00	2 - Closed 2 - Open 6"	2021.6	2028.5
8/17/2009	10:26	22.5	7.72	10:34	14.5	4.99	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.6	xxxxxxx
8/17/2009	12:05	24.1	6.81	12:10	19.0	5.35	2	11:00 - 15:00	2 - Closed 2 - Open 6"	2021.6	2028.5
8/18/2009	12:10	25.3	7.50	12:15	15.2	6.49	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
8/18/2009	13:00	21.9	7.97	13:05	18.9	6.30	2	12:30 - 14:30	2 - Closed 2 - Open 6"	2021.7	2028.5
8/19/2009	12:05	26.4	7.49	12:35	15.4	3.20	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
8/19/2009	13:30	26.5	7.45	13:35	19.0	6.66	2	12:30 - 14:30	2 - Closed 2 - Open 6"	2021.8	2028.5
8/20/2009	14:04	26.8	7.34	14:06	15.4	3.10	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.6	xxxxxxx
8/20/2009	14:40	25.4	7.89	14:45	19.1	6.82	2	14:15 - 16:15	2 - Closed 2 - Open 6"	2021.6	2028.5
8/21/2009	10:27	24.0	7.64	10:34	15.2	3.29	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.6	xxxxxxx
8/21/2009	11:28	22.8	7.87	11:34	19.4	6.07	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.6	2028.5
8/21/2009	14:30	25.2	7.62	14:35	19.5	4.23	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.6	xxxxxxx
8/22/2009	10:30	23.8	7.77	10:37	15.0	2.74	0	xxxxxxx	2 - Closed 2 - Open 6"	2022.1	xxxxxxx
8/22/2009	12:40	24.0	7.46	12:46	19.6	6.34	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2022.1	2028.5



(Instrument Calibrated to 2000 ft. MSL)

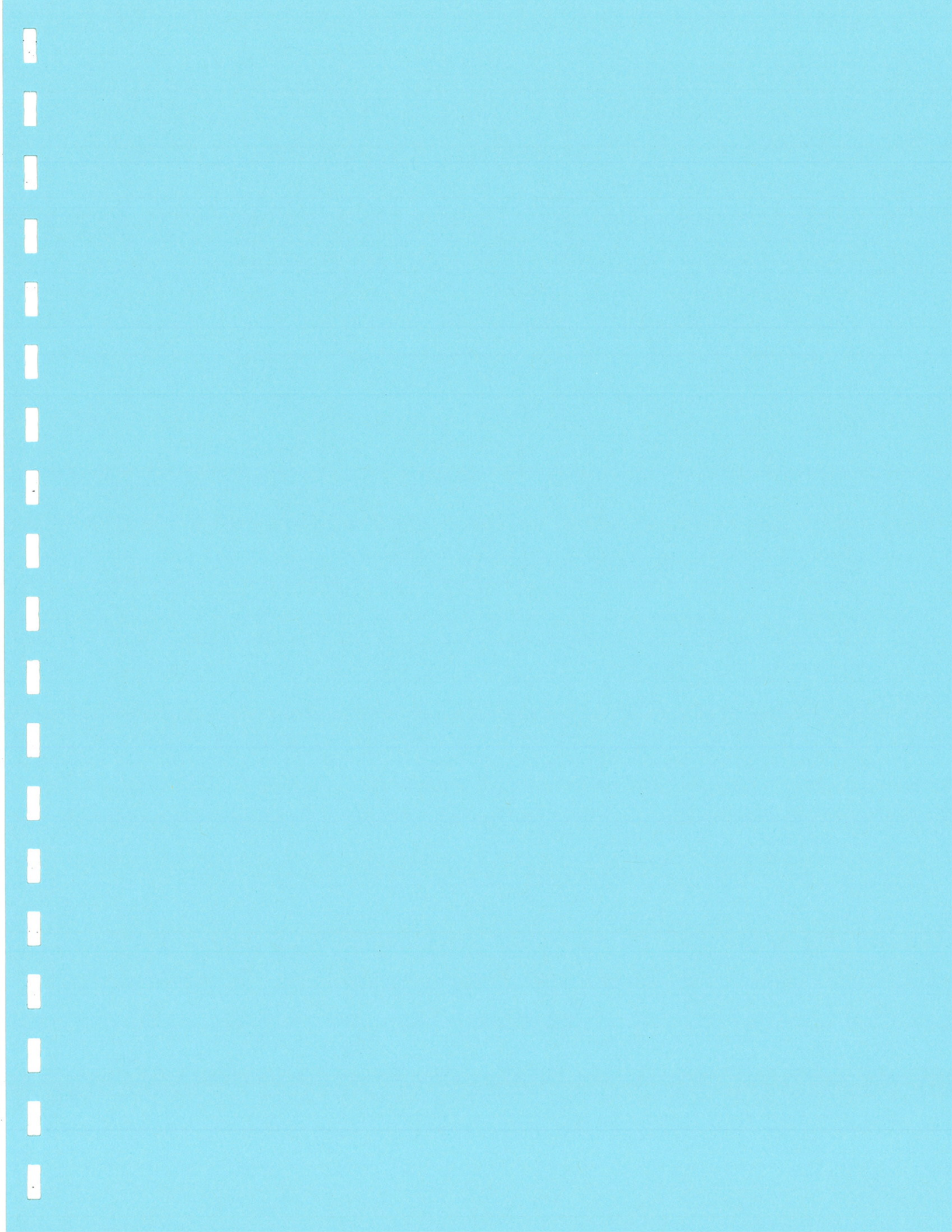
Date	INSTRUMENT CALIBRATION			DO MEASUREMENTS				NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	CAL. READINGS		DOWNSTREAM OF WEIR		DO (mg/l)	TEMP °C	DO (mg/l)					
	TIME	TEMP °C	DO (mg/l)	TIME								
8/22/2009	14:24	23.7	7.74	14:31	19.1	3.64	0	xxxxxxx	2 - Closed 2 - Open 6"	2022.0	xxxxxxx	
8/24/2009	9:36	20.7	7.59	9:42	14.6	3.52	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	
8/24/2009	11:40	21.7	8.20	11:45	19.4	6.50	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.7	2028.5	
8/24/2009	14:30	25.0	7.65	14:34	20.0	3.93	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	
8/26/2009	14:26	27.5	7.12	14:30	19.4	6.95	2	14:00 - 15:00	2 - Closed 2 - Open 6"	2021.7	2028.5	
8/28/2009	10:24	22.9	7.42	10:33	14.7	3.91	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.6	xxxxxxx	
8/28/2009	12:40	23.5	7.47	12:46	20.1	6.01	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.6	2028.5	
8/28/2009	14:28	23.6	7.90	14:31	20.3	4.80	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.6	xxxxxxx	
8/29/2009	10:05	23.0	7.63	10:10	15.1	4.82	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.6	xxxxxxx	
8/29/2009	11:30	23.3	7.69	11:37	20.0	6.41	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.6	2028.5	
8/29/2009	14:23	24.0	7.60	14:35	20.0	4.40	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.6	xxxxxxx	
8/31/2009	10:25	18.8	8.66	10:30	14.6	4.91	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	
8/31/2009	11:40	19.5	8.38	11:45	19.7	6.21	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.7	2028.5	
8/31/2009	14:22	20.2	7.45	14:30	19.9	3.77	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	
9/4/2009	9:40	16.9	8.74	9:47	15.0	5.33	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	
9/4/2009	10:40	18.2	8.80	10:45	19.9	6.83	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2021.7	2028.5	
9/4/2009	13:25	20.4	8.14	13:30	20.2	5.34	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	
9/5/2009	9:30	17.3	8.41	9:35	14.9	5.96	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	
9/5/2009	10:28	18.1	8.75	10:34	19.6	6.68	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2021.7	2028.5	
9/5/2009	13:52	20.3	8.28	14:00	20.3	6.24	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	
9/7/2009	9:30	19.6	8.49	9:35	15.4	6.11	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	
9/7/2009	10:35	21.6	8.15	10:37	20.3	7.21	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2021.7	2028.5	
9/7/2009	13:30	20.9	8.28	13:35	20.5	6.13	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx	

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION			DO MEASUREMENTS			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
9/11/2009	9:30	19.0	8.63	9:35	15.8	5.68	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
9/11/2009	10:40	23.0	8.01	10:42	19.8	7.66	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2021.7	2028.5
9/11/2009	13:30	20.5	8.28	13:35	19.9	6.20	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.7	xxxxxxx
9/12/2009	9:30	18.4	8.71	9:34	15.5	5.75	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/12/2009	10:30	15.6	8.70	10:35	14.7	6.21	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2021.8	2028.5
9/12/2009	13:30	19.5	8.52	13:37	19.6	6.55	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/14/2009	9:24	18.9	8.20	9:30	15.4	5.50	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/14/2009	10:29	18.6	8.20	10:36	19.1	6.52	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2021.8	2028.5
9/14/2009	13:30	22.4	8.02	13:37	19.6	6.60	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/15/2009	9:24	19.9	8.32	9:31	15.7	5.64	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/15/2009	12:51	22.1	7.92	12:57	19.1	7.33	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2021.8	2028.5
9/15/2009	13:50	22.5	7.78	13:55	19.6	6.75	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/16/2009	9:33	19.7	8.35	9:37	15.9	5.87	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/16/2009	10:47	20.0	8.30	10:54	19.3	7.20	2	10:00 - 14:00	2 - Closed 2 - Open 6"	2021.8	2028.5
9/16/2009	14:23	22.3	7.73	14:31	19.5	6.78	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/17/2009	9:25	19.9	8.46	9:30	16.5	6.35	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/17/2009	11:25	19.3	8.56	11:30	19.5	7.63	2	10:00 - 14:00	2 - Closed 2 - Open 6"	2021.8	2028.5
9/17/2009	14:30	20.6	8.33	14:35	19.8	6.65	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/18/2009	9:30	20.5	8.27	9:35	16.7	6.23	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/18/2009	11:00	21.9	8.01	11:05	19.2	7.76	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2021.8	2028.5
9/18/2009	14:30	20.7	8.30	14:35	20.1	7.00	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/21/2009	9:30	20.4	8.35	9:35	16.8	6.39	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx
9/21/2009	10:37	20.1	8.25	10:40	19.5	7.42	2	10:00 - 13:00	2 - Closed 2 - Open 6"	2021.8	2028.5
9/21/2009	13:44	22.7	7.83	13:50	19.9	6.87	0	xxxxxxx	2 - Closed 2 - Open 6"	2021.8	xxxxxxx







**APPENDIX E**

**WATER APPROPRIATION AND USE PERMIT - GA1992S009(07)**



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230  
410-537-3000 • 1-800-633-6101

Martin O'Malley  
Governor

Shari T. Wilson  
Secretary

Anthony G. Brown  
Lieutenant Governor

Robert M. Summers, Ph.D.  
Deputy Secretary

April 12, 2007

CERTIFIED MAIL - 7002 2410 0005 5561  
Return Receipt Requested

BROOKFIELD POWER PINEY & DEEP CREEK LLC  
C/O DAVID W. CULLIGAN, PE  
225 GREENFIELD PARKWAY SUITE 201  
LIVERPOOL, PA 13088

RE: State Water Appropriation  
Permit No. GA1992S009(07)  
Revision 07

Dear Mr. Culligan:

The previously mailed permit signed on March 30, 2007 was noted to have several typographical errors. The enclosed permit replaces the previous version, with the same effective date and sequence number. As before, the Brookfield Power is responsible for complying with all permit conditions.

Semi-annual Water Withdrawal Reports are required by this permit. Forms for making these reports will be mailed to you in June and December of each year.

If you have any questions, please contact this office at (410)537-3590.

Sincerely,

JOHN W. GRACE  
Water Supply Program

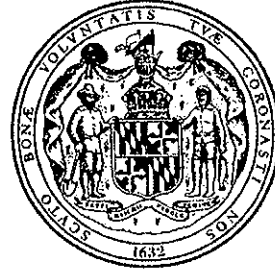
cc: GARRETT COUNTY HEALTH DEPARTMENT  
INTERESTED PARTY LIST

**STATE OF MARYLAND**  
**DEPARTMENT OF THE ENVIRONMENT**  
**WATER MANAGEMENT ADMINISTRATION**

**WATER APPROPRIATION AND USE PERMIT**

PERMIT NUMBER: GA1992S009(07)

EFFECTIVE DATE: APRIL 1, 2007  
EXPIRATION DATE: APRIL 1, 2019  
FIRST APPROPRIATION: JANUARY 1, 1925



BROOKFIELD POWER PINEY & DEEP CREEK LLC

HEREINAFTER REFERRED TO AS THE "PERMITTEE", IS AUTHORIZED BY THE WATER MANAGEMENT ADMINISTRATION, HEREINAFTER REFERRED TO AS THE "ADMINISTRATION" PURSUANT TO THE PROVISIONS OF TITLE 5 OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND (1996 REPLACEMENT VOLUME) AS AMENDED, TO APPROPRIATE AND USE WATERS OF THE STATE SUBJECT TO THE FOLLOWING CONDITIONS:

1. ALLOCATION - THE WATER WITHDRAWAL GRANTED BY THIS PERMIT IS LIMITED TO:  
A DAILY AVERAGE OF 94,000,000 GALLONS ON A YEARLY BASIS AND A MAXIMUM DAILY WITHDRAWAL OF 420,000,000 GALLONS.
2. USE - THE WATER IS TO BE USED FOR HYDROELECTRIC GENERATION, TEMPERATURE ENHANCEMENT, WHITEWATER BOATING ENHANCEMENT, AND MAINTENANCE OF MINIMUM FLOWS IN THE YOUGHIOGHENY RIVER.
3. SOURCE - THE WATER SHALL BE TAKEN FROM DEEP CREEK LAKE.
4. LOCATION - THE POINT(S) OF WITHDRAWAL SHALL BE LOCATED AT THE EXISTING INTAKE STRUCTURE AT THE DEEP CREEK LAKE DAM, THREE MILES WEST OF THAYERVILLE, GARRETT COUNTY, MARYLAND.

CONTINUED ON PAGE 2

5. RIGHT OF ENTRY - THE PERMITTEE SHALL ALLOW AUTHORIZED REPRESENTATIVES OF THE ADMINISTRATION ACCESS TO THE PERMITTEE'S FACILITY TO CONDUCT INSPECTIONS AND EVALUATIONS NECESSARY TO ASSURE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT. THE PERMITTEE SHALL PROVIDE SUCH ASSISTANCE AS MAY BE NECESSARY TO EFFECTIVELY AND SAFELY CONDUCT SUCH INSPECTIONS AND EVALUATIONS.
6. PERMIT REVIEW - THE PERMITTEE WILL BE QUERIED EVERY THREE YEARS (TRIENNIAL REVIEW) REGARDING WATER USE UNDER THE TERMS AND CONDITIONS OF THIS PERMIT. FAILURE TO RETURN THE TRIENNIAL REVIEW QUERY WILL RESULT IN SUSPENSION OR REVOCATION OF THIS PERMIT.
7. PERMIT RENEWAL - THIS PERMIT WILL EXPIRE ON THE DATE INDICATED ON THE FIRST PAGE OF THIS PERMIT. IN ORDER TO RENEW THE PERMIT THE PERMITTEE SHALL FILE A RENEWAL APPLICATION WITH THE ADMINISTRATION NO LATER THAN 45 DAYS PRIOR TO THE EXPIRATION.
8. PERMIT SUSPENSION OR REVOCATION - THIS PERMIT MAY BE SUSPENDED OR REVOKED BY THE ADMINISTRATION UPON VIOLATION OF THE CONDITIONS OF THIS PERMIT, OR UPON VIOLATION OF ANY REGULATION PROMULGATED PURSUANT TO TITLE 5 OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND (1996 REPLACEMENT VOLUME) AS AMENDED.
9. CHANGE OF OPERATIONS - ANY ANTICIPATED CHANGE IN APPROPRIATION WHICH MAY RESULT IN A NEW OR DIFFERENT USE, QUANTITY, SOURCE, OR PLACE OF USE OF WATER SHALL BE REPORTED TO THE ADMINISTRATION BY THE PERMITTEE BY SUBMISSION OF A NEW APPLICATION.
10. ADDITIONAL PERMIT CONDITIONS - THE ADMINISTRATION MAY AT ANYTIME (INCLUDING TRIENNIAL PERMIT REVIEW OR WHEN A CHANGE APPLICATION IS SUBMITTED) REVISE ANY CONDITION OF THIS PERMIT OR ADD ADDITIONAL CONDITIONS CONCERNING THE CHARACTER, AMOUNT, MEANS AND MANNER OF THE APPROPRIATION OR USE, WHICH MAY BE NECESSARY TO PROPERLY PROTECT, CONTROL AND MANAGE THE WATER RESOURCES OF THE STATE. CONDITION REVISIONS AND ADDITIONS WILL BE ACCOMPLISHED BY ISSUANCE OF A REVISED PERMIT.
11. NON-TRANSFERRABLE - THIS PERMIT IS NON-TRANSFERRABLE. A NEW OWNER MAY ACQUIRE AUTHORIZATION TO CONTINUE THIS APPROPRIATION BY FILING A NEW APPLICATION WITH THE ADMINISTRATION. AUTHORIZATION WILL BE ACCOMPLISHED BY ISSUANCE OF A NEW PERMIT.



12. FLOW MEASUREMENT - THE PERMITTEE SHALL MEASURE ALL WATER USED UNDER THIS PERMIT BY A METHOD WHICH SHALL BE APPROVED BY THE ADMINISTRATION. THE PERMITTEE SHALL MAINTAIN A DAILY LOG, SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE ADMINISTRATION.
13. WITHDRAWAL REPORTS - THE PERMITTEE SHALL SUBMIT TO THE ADMINISTRATION, SEMI-ANNUALLY (JULY-DECEMBER, NO LATER THAN JANUARY 31 AND JANUARY-JUNE, NO LATER THAN JULY 31), WATER USE RECORDS. THESE RECORDS SHALL SHOW THE TOTAL QUANTITY OF WATER RELEASED EACH MONTH UNDER THIS PERMIT.
14. RULE BAND AND OPERATION PROTOCOLS - THE PERMITTEE SHALL OPERATE THE DEEP CREEK HYDROELECTRIC PROJECT (PROJECT) ACCORDING TO THE PROJECT OPERATING RULES SPECIFIED THROUGHOUT THIS PERMIT SUCH THAT WATER ELEVATIONS IN DEEP CREEK LAKE ARE MAINTAINED WITHIN THE OPERATING RULE BAND, EXCEPT IN THE EVENT OF UNUSUAL OR EMERGENCY CONDITIONS AS DEFINED BELOW. THE UPPER AND LOWER RULE BANDS ARE THE HIGHEST AND LOWEST DESIRABLE RESERVOIR LEVELS AT THE END OF EACH MONTH. THE UPPER AND LOWER END OF EACH MONTH ARE DEFINED IN THE FOLLOWING TABLE. WHEN LAKE LEVELS ARE ABOVE THE UPPER RULE BAND, THE PERMITTEE MAY RELEASE WATER AS NEEDED TO DRAW DOWN THE LAKE TO A LEVEL WITHIN THE RULE BAND. ELEVATIONS ARE GIVEN IN FEET ABOVE MEAN SEA LEVEL.

PROJECT OPERATING RULE BAND

MONTH	UPPER BAND ELEVATIONS	LOWER BAND ELEVATIONS
JANUARY	2457.9	2455.0
FEBRUARY	2457.9	2456.0
MARCH	2459.5	2458.0
APRIL	2461.0	2459.6
MAY	2461.0	2460.0
JUNE	2461.0	2460.0
JULY	2460.0	2459.0
AUGUST	2459.0	2458.0
SEPTEMBER	2458.5	2457.0
OCTOBER	2457.9	2456.0
NOVEMBER	2457.9	2455.0
DECEMBER	2457.9	2455.0

IN THE EVENT OF UNUSUAL OR EMERGENCY CONDITIONS, THE NORMAL MONTHLY OPERATING RULES MAY BE MODIFIED OR SUSPENDED UNTIL SUCH TIME AS UNUSUAL OR EMERGENCY CONDITIONS NO LONGER EXIST. UNUSUAL OR EMERGENCY CONDITIONS ARE DEFINED AS:

14. CONT'D

- (A) A SYSTEM EMERGENCY, DEFINED AS MAXIMUM EMERGENCY GENERATION UNDER THE PENNSYLVANIA-NEW JERSEY-MARYLAND INTERCONNECTION (PJM) HIERARCHY OF EMERGENCY ORDERS, OR EMERGENCY LOADING OF SPINNING RESERVE CAPACITY, OR EMERGENCY CONTROL OF TRANSMISSION FACILITY LOADING;
- (B) A SITE EMERGENCY SUCH AS FAILURE OR PROBABLE FAILURE OF THE DAM THAT REQUIRES MAXIMUM RELEASE FOR RAPID DRAWDOWN OF THE RESERVOIR;
- (C) A SITE EMERGENCY OR OTHER FORCED (UNSCHEDULED) OUTAGE REQUIRING SHUTDOWN OF THE INTAKE, POWER TUNNEL, PENSTOCKS, OR GENERATING UNITS, RESULTING IN THE INABILITY TO GENERATE OR TO OPERATE THE PROPOSED MINIMUM RELEASE BYPASS;
- (D) MAINTENANCE OF THE DAM OR REPAIR OF LAKE SHORELINE EROSION WHICH REQUIRES LOWERING OF LAKE LEVEL BELOW THE LOWER RULE BAND TO ALLOW ACCESS OR TO CONTROL INFLOW;
- (E) ACTUAL OR FORECAST EXTRAORDINARILY HIGH RUNOFF OR RAINFALL WHICH REQUIRES UNLIMITED GENERATION IN ORDER TO KEEP THE LAKE LEVEL BELOW THE UPPER RULE BAND AND/OR AVOID SPILLING OVER THE TOP OF THE DAM.

THE DURATION AND TIMING OF PLANNED OUTAGES SHALL BE APPROVED IN ADVANCE BY THE ADMINISTRATION. IN PROPOSING PLANNED OUTAGES, THE PERMITTEE SHALL DETAIL REASONS WHY THE OUTAGE IS NECESSARY AS WELL AS HOW THE OUTAGE WILL IMPACT THE FISHERY AND WHITEWATER RECREATION IN THE YOUGHIOGHENY RIVER. TO THE EXTENT POSSIBLE, PLANNED OUTAGES SHALL NOT OCCUR DURING MID-APRIL THROUGH MID-OCTOBER.

- 15. LAKE LEVEL MONITORING AND REPORTING - THE PERMITTEE SHALL MEASURE AND RECORD THE WATER ELEVATIONS IN THE DEEP CREEK LAKE AT APPROXIMATELY THE SAME TIME EACH DAY. THE PERMITTEE SHALL REPORT THE RESULTS OF WATER-LEVEL MONITORING TO THE ADMINISTRATION ON AN ANNUAL BASIS, AND SHALL MAINTAIN A DAILY LOG OF MEASUREMENTS, SUBJECT TO INSPECTION BY THE ADMINISTRATION.
- 16. TEMPERATURE ENHANCEMENT IN THE YOUGHIOGHENY RIVER - THE PERMITTEE SHALL IMPLEMENT A PLAN APPROVED BY THE DEPARTMENT FOR USING PROJECT OPERATION, OR A COMBINATION OF MINIMUM FLOW RELEASES AND PROJECT OPERATION, TO MAINTAIN WATER TEMPERATURES LESS THAN 25 DEGREES C IN THE YOUGHIOGHENY RIVER BETWEEN THE PROJECT TAILRACE AND SANG RUN, DURING THE MONTHS OF JUNE, JULY

16. CONT'D  
AND AUGUST. THE PLAN MUST INCLUDE A TRIGGERING MECHANISM AND REAL-TIME MONITORING OF RIVER TEMPERATURE. THE PLAN MUST INCLUDE A PROTOCOL FOR PREDICTING TEMPERATURE RELEASES ON THE MORNING OF THE RELEASE, AS EARLY AS THREE HOURS IN ADVANCE. THE PERMITTEE SHALL REPORT TO THE DEPARTMENT ALL OCCURRENCES OF WATER TEMPERATURES EQUALING OR EXCEEDING 25 DEGREES C WITHIN 30 DAYS OF THE DATE OF OCCURRENCE, INCLUDING PROPOSED MEASURES OR CHANGES TO THE PLAN TO PRECLUDE FUTURE INCIDENTS WHERE WATER TEMPERATURE EQUALS OR EXCEEDS 25 DEGREES C. THE PERMITTEE SHALL INCLUDE THE RESULTS OF TEMPERATURE MONITORING IN AN ANNUAL REPORT. THE PERMITTEE SHALL, IN CONSULTATION WITH THE DEPARTMENT, CONTINUE TO REFINE OR REVISE THE PLAN WITH THE OBJECTIVE OF MAINTAINING WATER TEMPERATURES IN THE RIVER BETWEEN THE PROJECT TAILRACE AND SANG RUN BELOW 25 DEGREES C AT ALL TIMES DURING THE MONTHS OF JUNE, JULY AND AUGUST.
17. MINIMUM FLOW RELEASES - THE PERMITTEE SHALL MAINTAIN AND OPERATE A BYPASS SYSTEM AT THE PROJECT TO MAINTAIN A MINIMUM FLOW OF 40 CFS IN THE YOUGHIOGHENY RIVER DOWNSTREAM OF THE PROJECT TAILRACE. THE MINIMUM FLOW SHALL BE MAINTAINED AT ALL TIMES BELOW THE TAILRACE. A REDUCTION IN THE MINIMUM FLOW BELOW 40 CFS MAY BE REQUESTED OF THE ADMINISTRATION WHEN RESERVOIR LEVELS ARE ONE FOOT OR MORE BELOW THE LOWER RULE BAND. THE PERMITTEE SHALL ESTIMATE FLOW IN THE YOUGHIOGHENY RIVER IMMEDIATELY BELOW THE TAILRACE AT APPROXIMATELY THE SAME TIME EACH DAY. A REPORT OF FLOW ESTIMATES AND THE OCCURRENCE OF BYPASS RELEASES SHALL BE SUBMITTED TO THE DEPARTMENT IN AN ANNUAL REPORT, AND A DAILY LOG OF SUCH RELEASES SHALL BE MAINTAINED, SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE ADMINISTRATION. THE PERMITTEE SHALL PROVIDE A CONTINUOUS FLOW INTO THE TAILRACE OF APPROXIMATELY 9 CFS DURING THE MONTHS OF JUNE, JULY AND AUGUST, EVEN WHEN THERE IS NO MINIMUM BYPASS FLOW AS REQUIRED BY THIS CONDITION.
18. DISSOLVED OXYGEN MITIGATION - THE PERMITTEE SHALL MAINTAIN AND OPERATE A TAILRACE WEIR DESIGNED TO INCREASE DISSOLVED OXYGEN LEVELS IN ALL PROJECT DISCHARGES ABOVE MARYLAND WATER QUALITY STANDARDS AS OUTLINED IN COMAR 26.08.02 (5 PPM MINIMUM, 6 PPM DAILY AVERAGE). THE PERMITTEE SHALL MONITOR DISSOLVED OXYGEN LEVELS OF PROJECT DISCHARGES BY A METHOD APPROVED BY THE ADMINISTRATION DURING JUNE 1 TO OCTOBER 1. THE RESULTS OF DISSOLVED OXYGEN MONITORING SHALL BE SUBMITTED TO THE DEPARTMENT IN AN ANNUAL REPORT. THE PERMITTEE SHALL MAINTAIN A LOG OF MEASUREMENTS, SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE ADMINISTRATION.

19. RELEASES FOR WHITEWATER RECREATION

A) WHITEWATER RELEASES. THERE ARE TWO TYPES OF SCHEDULED WHITEWATER RELEASES (WWR); STANDARD AND SPECIAL RELEASES. ALL WWR ARE SUBJECT TO THE RULE BAND AND OPERATION REQUIREMENTS IN CONDITION 14, THE TEMPERATURE ENHANCEMENT RELEASE (TER) REQUIREMENTS IN CONDITION 16 AND THE PARAMETERS DEFINED BELOW IN PARAGRAPH B. THE INTENT OF WWR IS TO ENHANCE RECREATIONAL WHITEWATER ENJOYMENT FROM THE PROJECT TAILRACE TO FRIENDSVILLE.

I) STANDARD WWR. WITH THE EXCEPTION OF THE SPECIAL WWR CONDITIONS IN PARAGRAPH II) BELOW, STANDARD WWR WILL OCCUR ON SUNDAYS, MONDAYS, FRIDAYS, AND SATURDAYS BETWEEN APRIL 15TH AND OCTOBER 15TH IN ACCORDANCE WITH THE FOLLOWING TABLE AND MAY BE MODIFIED BY ITEMS II) AND III) BELOW.

<u>MONTH</u>	<u>SUNDAY</u>	<u>MONDAY</u>	<u>FRIDAY</u>	<u>SATURDAY</u>
APRIL	NONE	NONE	ALL FRIDAYS AFTER APRIL 14TH (1000 HR TO 1300 HR)	NONE
MAY	NONE	1ST TWO MONDAYS (1000 HR TO 1300 HR)	1ST THREE FRIDAYS (1000 HR TO 1300 HR)	1ST SATURDAY (1000 HR TO 1300 HR)
MEMORIAL DAY WEEKEND	ODD NUMBERED YEARS (1000 HR TO 1300 HR)	ODD NUMBERED YEARS (1000 HR TO 1300 HR)	EVEN NUMBERED YEARS (1000 HR TO 1300 HR)	EVEN NUMBERED YEARS (1000 HR TO 1300 HR)
JUNE	NONE	EVERY MONDAY (1100 HR TO 1400 HR)	EVERY FRIDAY (1100 HR TO 1400 HR)	LAST TWO SATURDAYS (1100 HR TO 1400 HR)
JULY	NONE	EVERY MONDAY (1100 HR TO 1400 HR)	EVERY FRIDAY (1100 HR TO 1400 HR)	EVERY SATURDAY (1100 HR TO 1400 HR) (see also Special WWR below)
AUGUST	NONE	EVERY MONDAY (1100 HR TO 1400 HR)	EVERY FRIDAY (1100 HR TO 1400 HR)	EVERY SATURDAY (1100 HR TO 1400 HR)
SEPTEMBER	NONE	EVERY MONDAY (1000 HR TO 1300 HR)	EVERY FRIDAY (1000 HR TO 1300 HR)	FIRST TWO SATURDAYS (1000 HR TO 1300 HR)
OCTOBER	NONE	ALL MONDAYS BEFORE OCTOBER 16TH (1000 HR TO 1300 HR)	ALL FRIDAYS BEFORE OCTOBER 16TH (1000 HR TO 1300 HR)	FIRST SATURDAY (1000 HR TO 1300 HR)

II) SPECIAL WWR. SPECIAL WWR MUST BE REQUESTED IN WRITING TO MDE NO LATER THAN 30 CALENDAR DAYS BEFORE THE SPECIAL WWR AND WILL, AT A MINIMUM, INCLUDE:

- + ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE WWR. THE FOURTH SATURDAY WWR IN JULY WILL BE AN EXTENDED SIX (6) HOUR CONTINUOUS RELEASE BETWEEN 1100 HOURS AND 1700 HOURS TO ACCOMMODATE THE ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE. THE ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE WWR IS CONTINGENT ON THE LAKE LEVEL ELEVATION BEING HIGHER THAN THE ONE (1) FOOT BELOW THE LOWER RULE BAND ON THE DAY OF THE WWR.
- + GAULEY WEEK WWR. GAULEY WEEK RELEASES INCLUDE CONTINUOUS THREE (3) HOUR RELEASES FROM 1000 HOURS TO 1300 HOURS ON TUESDAY, WEDNESDAY, AND THURSDAY OF THE WEEK BEFORE THE GAULEY FESTIVAL WEEKEND IN SUMMERSVILLE, WEST VIRGINIA. THE GAULEY FESTIVAL WEEKEND IS TYPICALLY SCHEDULED DURING THE SECOND HALF OF SEPTEMBER. EACH DAY OF THE GAULEY WEEK WWR IS CONTINGENT ON THE LAKE LEVEL ELEVATION BEING HIGHER THAN THE LOWER RULE BAND.

III) SYNCHRONIZATION OF WWR WITH TER. THE EXTENT PRACTICABLE AND AT THE DISCRETION OF THE PERMITTEE, ANY WWR MAY BE SYNCHRONIZED WITH ANY TER THAT MAY BE REQUIRED DURING THE MONTHS OF JUNE, JULY, AND AUGUST. SYNCHRONIZATION MEANS COMMENCING A WWR UP TO ONE (1) HOUR EARLIER TO MORE ACCURATELY COINCIDE WITH A TER. IN THE EVENT THE PERMITTEE EXPECTS TO SYNCHRONIZE A WWR WITH A TER ON A GIVEN DAY, IT SHALL PLACE NOTICE OF THE SAME ON A RECORDED MESSAGE, ACCESSIBLE TO THE PUBLIC BY TELEPHONE AS SOON AS THE DECISION TO SYNCHRONIZE IS MADE.

B) FROM APRIL 15TH THROUGH OCTOBER 15TH, THE FOLLOWING ADDITIONAL OPERATING RULES WILL ALSO BE IN EFFECT:

- I) THE PERMITTEE SHALL NOT OPERATE THE PROJECT FOR HYDROELECTRIC GENERATION BEFORE 1300 HOURS WHEN NATURAL FLOWS AS MEASURED AT FRIENDSVILLE USGS GAGE 03076500 (FRIENDSVILLE) ARE BETWEEN 1300 AND 2500 CFS UNLESS AN UNUSUAL OR EMERGENCY CONDITION EXISTS, OR LAKE EXCEEDS THE UPPER RULE BAND.

- II) WHEN NATURAL FLOWS AS MEASURED AT FRIENDSVILLE ARE GREATER THAN 600, BUT LESS THAN 1300 CFS, AND LAKE ELEVATION IS WITHIN THE RULE BANDS SPECIFIED IN CONDITION 14, POWERHOUSE DISCHARGE SHALL BE NO GREATER THAN THE MAXIMUM DISCHARGE OF ONE TURBINE FOR THE FIRST THREE (3) HOURS OF SCHEDULED GENERATION.
- III) DURING WEEKS THAT CONTAIN A SATURDAY RELEASE, THE PERMITTEE SHALL MAKE RELEASES ON SATURDAYS WHEN THE LAKE LEVEL IS HIGHER THAN ELEVATION THAT IS ONE FOOT BELOW THE LOWER RULE BAND, AND ON SUNDAYS, MONDAYS AND FRIDAYS WHEN THE LAKE LEVEL IS ABOVE THE LOWER RULE BAND.
- IV) DURING WEEKS THAT DO NOT CONTAIN A SATURDAY RELEASE, THE PERMITTEE SHALL MAKE RELEASES ON FRIDAYS WHEN THE LAKE LEVEL IS HIGHER THAN AN ELEVATION THAT IS ONE FOOT BELOW THE LOWER RULE BAND, AND ON SUNDAYS AND MONDAYS WHEN THE LAKE LEVEL IS ABOVE THE LOWER RULE BAND.
- V) THE PERMITTEE MAY VARY POWERHOUSE DISCHARGE DURING ANY WWR IN ACCORDANCE WITH EITHER OF THE FOLLOWING TWO APPROACHES EXCEPT DURING THE ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE WWR AND EXCEPT WHEN A WWR IS SYNCHRONIZED WITH A TER.

(1) 3RD HOUR REGULATION APPROACH

- + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS LESS THAN 600 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 320 CFS AND MAXIMUM DISCHARGE OF TWO TURBINES DURING THE THIRD HOUR OF ANY WWR SO LONG AS POWERHOUSE DISCHARGE DURING THE FIRST TWO HOURS OF THE WWR IS HELD CONSTANT AT MAXIMUM DISCHARGE OF TWO TURBINES.
- + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS GREATER THAN 600 CFS BUT LESS THAN 1300 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 220 CFS AND MAXIMUM DISCHARGE OF ONE TURBINE DURING THE THIRD HOUR OF ANY WWR SO LONG AS POWER HOUSE DISCHARGE DURING THE FIRST TWO HOURS OF THE WWR IS HELD CONSTANT AT MAXIMUM DISCHARGE OF ONE TURBINE.

(2) ALL HOUR REGULATION APPROACH.

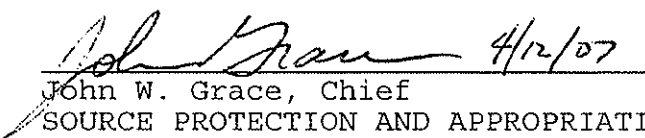
- + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS LESS THAN OR EQUAL TO 200 CFS, POWERHOUSE DISCHARGE WILL BE HELD CONSTANT AT MAXIMUM DISCHARGE OF TWO TURBINES FOR ALL THREE HOURS OF ANY WWR.
  - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS BETWEEN 200 AND 300 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 440 CFS AND MAXIMUM DISCHARGE OF TWO TURBINES DURING ANY PART OF ANY THREE HOUR WWR.
  - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS BETWEEN 300 AND 600 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 320 AND MAXIMUM DISCHARGE OF TWO TURBINES DURING ANY PART OF ANY THREE HOUR WWR.
  - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS GREATER THAN 600 CFS BUT LESS THAN 1300 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 220 CFS AND MAXIMUM DISCHARGE OF ONE TURBINE DURING ANY PART OF ANY THREE HOUR WWR.
20. ANNOUNCEMENT OF EXPECTED RELEASES - ON EACH THURSDAY, THE PERMITTEE SHALL PLACE ON A RECORDED MESSAGE ACCESSIBLE TO THE PUBLIC BY TELEPHONE, A FORECAST OF EXPECTED RELEASES FOR THE FOLLOWING WEEK. EACH MORNING, BETWEEN 0700 AND 0800 HOURS, THE PERMITTEE SHALL PLACE ON THE RECORDED MESSAGE INFORMATION ON THE SCHEDULED RELEASES FOR THE NEXT 48 HOURS.
21. ZEBRA MUSSEL MONITORING - THE PERMITTEE SHALL IMPLEMENT A ZEBRA MUSSEL (*DREISSENA POLYMORPHA*) MONITORING PROGRAM APPROVED BY THE ADMINISTRATION. THE RESULTS OF SUCH MONITORING SHALL BE SUBMITTED IN AN ANNUAL REPORT.
22. NOTICE OF GENERATION RELEASES - AT STRATEGIC LOCATIONS, SELECTED IN CONSULTATION WITH THE ADMINISTRATION AND INCLUDING THE SANG RUN AND HOYES RUN ACCESS AREAS, THE PERMITTEE SHALL PROMINENTLY DISPLAY WARNING NOTICES REGARDING THE HAZARD OF RAPID WATER LEVEL FLUCTUATIONS ASSOCIATED WITH WATER RELEASES FROM DEEP CREEK LAKE.

23. ANNUAL REPORT - THE PERMITTEE SHALL SUBMIT AN ANNUAL REPORT TO THE ADMINISTRATION NO LATER THAN JANUARY 31 OF EACH YEAR. THE REPORT SHALL INCLUDE THE FOLLOWING DATA FOR THE PREVIOUS CALENDAR YEAR:

- A) LAKE LEVEL MONITORING (CONDITION 15);
- B) TEMPERATURE MONITORING (CONDITION 16);
- C) MINIMUM FLOW RELEASE MONITORING (CONDITION 17);
- D) DISSOLVED OXYGEN MONITORING (CONDITION 18);
- E) RELEASES UNSUITABLE FOR WHITEWATER RECREATION (CONDITION 19);
- F) ZEBRA MUSSEL MONITORING (CONDITION 21).

24. PERMIT SUPERSESSION - THIS PERMIT HAS BEEN REVIEWED AND REVISED AND SUPERSEDES THE APPROPRIATION AND USE GRANTED BY THE FOLLOWING PRIOR PERMIT ISSUED TO:  
BRASCAN POWER PINEY AND DEEP CREEK LLC ON APRIL 27, 2005  
(GA1992S009(06))

BY AUTHORITY OF THE DIRECTOR  
WATER MANAGEMENT ADMINISTRATION

 4/12/07  
John W. Grace, Chief  
SOURCE PROTECTION AND APPROPRIATION DIV





**APPENDIX F**  
**ZEBRA MUSSEL MONITORING REPORTS**



Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power  
14 River View Terrace  
Oakland, MD 21550  
Phone: 301-387-6616  
Fax: 301-387-5809



Collector's Name RANDY GARLETT

Year 09 10 11 12 13 14 15

Month 04 05 06 07 08 09 10 11

Date 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18  
19 20 21 22 23 24 25 26 27 28 29 30 31

Hour \_\_\_\_\_ (if before 7am) 07 08 09 10 11 12 13 14 15 16 17 18

Water Temperature ° F 56

How many days was the sampler exposed to the water prior to collecting this data? 31

Are zebra mussels present at the site? (  NO ) ( \_\_\_\_\_ YES ) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? No

Comments NONE



### Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power  
14 River View Terrace  
Oakland, MD 21550  
Phone: 301-387-6616  
Fax: 301-387-5809



Collector's Name SEAN FREDLOCK

Year  09 10 11 12 13 14 15

Month 04 05  06 07 08 09 10 11

Day 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16  17 18  
19 20 21 22 23 24 25 26 27 28 29 30 31

Hour \_\_\_\_\_ (if before 7am) 07 08 09 10  11 12 13 14 15 16 17 18

Water Temperature ° F 70°

How many days was the sampler exposed to the water prior to collecting this data? 62 DAYS

Are zebra mussels present at the site? ( NO) ( YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? N/A

Comments FIRST WATER SAMPLE BOTTLE FILLED



Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power  
14 River View Terrace  
Oakland, MD 21550  
Phone: 301-387-6616  
Fax: 301-387-5809



Collector's Name SEAN FREDLOCK

Year  09 10 11 12 13 14 15

Month 04 05 06  07 08 09 10 11

Day 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18  
19  20 21 22 23 24 25 26 27 28 29 30 31

Hour \_\_\_\_\_ (if before 7am)  07 08 09 10 11 12 13 14 15 16 17 18

Water Temperature ° F 68

How many days was the sampler exposed to the water prior to collecting this data? 95 DAYS

Are zebra mussels present at the site? (  NO ) ( \_\_\_\_\_ YES ) *if yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.*

Other organisms observed on the sampler? NO

Comments NONE



### Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power  
14 River View Terrace  
Oakland, MD 21550  
Phone: 301-387-6616  
Fax: 301-387-5809



Collector's Name SEAN FREDLOCK

Year 09 10 11 12 13 14 15

Month 04 05 06 07 08 09 10 11

Day 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18  
19 20 21 22 23 24 25 26 27 28 29 30 31

Hour 10 AM (if before 7am) 07 08 09 10 11 12 13 14 15 16 17 18

Water Temperature ° F 76

How many days was the sampler exposed to the water prior to collecting this data? 125 Days

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments None



### Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power  
14 River View Terrace  
Oakland, MD 21550  
Phone: 301-387-6616  
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 09 10 11 12 13 14 15

Month 04 05 06 07 08 09 10 11

Day 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18  
19 20 21 22 23 24 25 26 27 28 29 30 31

Hour \_\_\_\_\_ (if before 7am) 07 08 09 10 11 12 13 14 15 16 17 18

Water Temperature ° F 68

How many days was the sampler exposed to the water prior to collecting this data? 154 Days

Are zebra mussels present at the site? (  ) NO ( \_\_\_\_\_ ) YES if yes  
comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? no

Comments none



Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power  
14 River View Terrace  
Oakland, MD 21550  
Phone: 301-387-6616  
Fax: 301-387-5809



Collector's Name SEAN FREDLOCK

Year 09 10 11 12 13 14 15

Month 04 05 06 07 08 09 10 11

Day 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18  
19 20 21 22 23 24 25 26 27 28 29 30 31

Hour \_\_\_\_\_ (if before 7am) 07 08 09 10 11 12 13 14 15 16 17 18

Water Temperature ° F 55

How many days was the sampler exposed to the water prior to collecting this data? 187 Days

Are zebra mussels present at the site? ( NO) ( YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments NONE





Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power  
14 River View Terrace  
Oakland, MD 21550  
Phone: 301-387-6616  
Fax: 301-387-5809



Collector's Name Mike Stemple

Year 09 10 11 12 13 14 15

Month 04 05 06 07 08 09 10 11

Day 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18  
19 20 21 22 23 24 25 26 27 28 29 30 31

Hour \_\_\_\_\_ (if before 7am) 07 08 09 10 11 12 13 14 15 16 17 18

Water Temperature ° F 53

How many days was the sampler exposed to the water prior to collecting this data? 215 Days

Are zebra mussels present at the site? (  ) NO ( \_\_\_\_\_ ) YES If yes comment below and notify the Superintendant and Maryland Department of Natural Resources immediately.

Other oraganisms observed on the sampler? no

Comments Removed sampler for winter

