

By email

August 6, 2021

Mr. John Smith
Maryland Department of the Environment
Water Management Administration
Source Protection and Appropriation Division
1800 Washington Boulevard
Baltimore, MD 21230

RE: Water Appropriation and Use Permit No. GA1992S009 (09)
Temperature Monitoring at the Sang Run Bridge on the Youghiogheny River
July 2021

Dear Mr. Smith:

Temperature in the Youghiogheny River at the Sang Run Bridge temperature monitor exceed 25°C on July 11 and July 22. The Summary of Excursions provides additional details.

TER's were conducted on July 6, 7, 11, 13, 14, 15, 20, 22, 25, 27 and 28. Per the Water Appropriation and Use Permit issued on September 2, 2020, TERs were not conducted on regularly scheduled whitewater release days or when river flows exceeded 180 cfs.

The Temperature Enhancement Protocol Operating Log sheets for July 2021 and the daily temperature monitor readings are attached for your review.

Should any additional information be required, please contact me by phone at 857-265-8298, by e-mail at amy.burnett@brookfieldrenewable.com, or by mail at Brookfield Renewable, 126 Lamberton Lane, Hawley, PA 18428.

Yours truly,



Amy L. Burnett
Compliance Specialist

Attachment: June 2021 Sang Run Temperature Report

cc by email: J. McClung (Brookfield)
K. Moriarty (Brookfield)
K. Lester (Brookfield)



DEEP CREEK STATION
MARYLAND WATER APPROPRIATION
PERMIT
NO. GA1992S009 (09)
TEMPERATURE MONITORING REPORT
JULY 2021

Summary of Temperature Excursions
July 1, 2021 to July 31, 2021

Date	Duration	Max Temp (°C)	Cause	Remarks
July 11, 2021	2 hours and 15 minutes	26.94	Model Uncertainty	The temperature protocol conducted on July 11 called for a one hour release ASAP and no later than 15:30. A release using two units, at full gate opening, was made from 15:19 to 16:19.
July 22, 2021	1 hour 45 minutes	26.26	Model Uncertainty	The temperature protocol conducted on July 22 called for a one hour release ASAP and no later than 15:30. A release using two units, at full gate opening, was made from 15:27 to 16:27.

Temperature Enhancement Protocol Operating Log
Sheets – July 2021

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

50.2 = CFS River Flow at Oakland

July 1, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.63 (23 to 26.4)	Check Again at 0900
0900	23.84 (23 to 25.9)	Check Again at 1100
1100	23.67 (23 to 25.4)	Check Again at 1200
1200	23.44 (23 to 25.3)	Check Again at 1400
1400	23.28 (23 to 25.2)	Check Again at 1500
1500	22.98	Check Again Tomorrow at 0700

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.82	River Temp Sang Run @700		
T9	20.79	River Temp Sang Run @900		
T11	21.22	River Temp Sang Run @1100		
T12	21.46	River Temp Sang Run @1200		
T14	22.35	River Temp Sang Run @1400		
T15	22.37	River Temp Sang Run @1500		
Q	50.20	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

101 = CFS River Flow at Oakland

July 2, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	19.62 (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	21.11	Air Temp, Elkins WV - Degree C	70	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	19.51	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	101.00	River Flow at Oakland		



release sched 11a-2p



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

153 = CFS River Flow at Oakland

July 3, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	<i>wwr 11a-2p</i> Deep Creek Action
0700	--- (23 to 26.4)	Input 0700 SANG RUN Temp
0900	--- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	--- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	--- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	--- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	---	Input 0700 SANG RUN Temp

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	No Data	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	153.00	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

82.5 = CFS River Flow at Oakland

July 4, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.90 (23 to 26.4)	Check Again at 0900
0900	22.77 (23 to 25.9)	Check Again at 1100
1100	24.19 (23 to 25.4)	Check Again at 1200
1200	23.55 (23 to 25.3)	Check Again at 1400
1400	23.98 (23 to 25.2)	Check Again at 1500
1500	23.51	Check Again Tomorrow at 0700

SAAR
W. Miller

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	17.27	River Temp Sang Run @700		
T9	17.30	River Temp Sang Run @900		
T11	18.63	River Temp Sang Run @1100		
T12	19.10	River Temp Sang Run @1200		
T14	21.53	River Temp Sang Run @1400		
T15	22.03	River Temp Sang Run @1500		
Q	82.50	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of


59.9 = CFS River Flow at Oakland

July 5, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	No Data	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	59.90	River Flow at Oakland		

White Water
Release
1100-1400

Loren Scott

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

50.2 = CFS River Flow at Oakland

July 6, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.56 (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	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	18.96	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	50.20	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

43.1 = CFS River Flow at Oakland

July 7, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.16 (23 to 26.4)	Check Again at 0900
0900	24.90 (23 to 25.9)	Check Again at 1100
1100	25.96 (23 to 25.4)	Release at 1130 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.15	River Temp Sang Run @700		
T9	20.15	River Temp Sang Run @900		
T11	21.46	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	43.10	River Flow at Oakland		

John S. ...
Lowen Scott 7/7/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

38.2 = CFS River Flow at Oakland

July 8, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.25 (23 to 26.4)	Check Again at 0900
0900	25.28 (23 to 25.9)	Check Again at 1100
1100	24.41 (23 to 25.4)	Check Again at 1200
1200	24.02 (23 to 25.3)	Check Again at 1400
1400	23.00 (23 to 25.2)	Check Again at 1500
1500	23.12	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.50	River Temp Sang Run @700		
T9	20.46	River Temp Sang Run @900		
T11	20.86	River Temp Sang Run @1100		
T12	21.08	River Temp Sang Run @1200		
T14	21.68	River Temp Sang Run @1400		
T15	22.23	River Temp Sang Run @1500		
Q	38.20	River Flow at Oakland		



LB 07/08/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

54 = CFS River Flow at Oakland

July 9, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	-- (23 to 26.4)	Input 0700 SANG RUN Temp
0900	-- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	--	Input 0700 SANG RUN Temp

wwr

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	No Data	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	54.00	River Flow at Oakland		

UB 07/09/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

59.9 = CFS River Flow at Oakland

July 10, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	<div style="font-size: 2em; text-align: center;">WWR</div> Deep Creek Action
0700	--- (23 to 26.4)	Input 0700 SANG RUN Temp
0900	--- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	--- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	--- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	--- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	---	Input 0700 SANG RUN Temp

7/10/21

Tair °C	16.11	Air Temp, Elkins WV - Degree C	61	Air Temp, Elkins WV - Degree F
CCF	64.00	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	No Data	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	59.90	River Flow at Oakland		

LB 7/10/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

36.6 = CFS River Flow at Oakland

July 11, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.24 (23 to 26.4)	Check Again at 0900
0900	22.59 (23 to 25.9)	Check Again at 1100
1100	22.82 (23 to 25.4)	Check Again at 1200
1200	23.04 (23 to 25.3)	Check Again at 1400
1400	24.31 (23 to 25.2)	Check Again at 1500
1500	25.61	Release ASAP - not later than 1530 for 1 hour

Tair °C	17.78	Air Temp, Elkins WV - Degree C	64	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.34	River Temp Sang Run @700		
T9	19.39	River Temp Sang Run @900		
T11	20.56	River Temp Sang Run @1100		
T12	21.39	River Temp Sang Run @1200		
T14	23.42	River Temp Sang Run @1400		
T15	24.85	River Temp Sang Run @1500		
Q	36.60	River Flow at Oakland		

[Handwritten Signature] 7/11/21
 LB 7/11/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

39.8 = CFS River Flow at Oakland

July 12, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	<i>WWR Na-Zp</i> <i>[Signature]</i> Deep Creek Action
0700	-- (23 to 26.4)	Input 0700 SANG RUN Temp
0900	-- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	--	Input 0700 SANG RUN Temp

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700	<i>[Signature]</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	39.80	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

36.6 = CFS River Flow at Oakland

July 13, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	<i>Temp release 11a-1p</i> Deep Creek Action
0700	26.35 (23 to 26.4)	Check Again at 0900
0900	26.54 (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	--	--


Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.91	River Temp Sang Run @700		
T9	21.06	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	36.60	River Flow at Oakland		

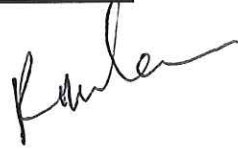
YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

28 = CFS River Flow at Oakland

July 14, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	<p><i>Temp release 11a-1p</i> </p> <p>Deep Creek Action</p>
0700	25.91 (23 to 26.4)	Check Again at 0900
0900	26.05 (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	--	--

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.94	River Temp Sang Run @700		
T9	20.98	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	28.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

29.3 = CFS River Flow at Oakland

July 15, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Temperature 11a-1p <i>AAK</i>
		Deep Creek Action
0700	26.91 (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	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	19.72	River Temp Sang Run @700	<i>funda</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	29.30	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

28 = CFS River Flow at Oakland

July 16, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	-- (23 to 26.4)	Input 0700 SANG RUN Temp <i>WWR SCHEDULED</i>
0900	-- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	--	Input 0700 SANG RUN Temp

*1100 ~ 1400
J. Edr...*

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	No Data	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	28.00	River Flow at Oakland		

WWR

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

Print

25.4 = CFS River Flow at Oakland

July 17, 2021

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	-- (23 to 26.4)	Input 0700 SANG RUN Temp
0900	-- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	--	Input 0700 SANG RUN Temp

WML from 1100 - 1500²

1400
J. Edwards
MAY

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	No Data	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	25.40	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

Print

44.8 = CFS River Flow at Oakland

July 18, 2021

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.13 (23 to 26.4)	Check Again at 0900
0900	22.81 (23 to 25.9)	Check Again at 1100
1100	22.83 (23 to 25.4)	Check Again at 1200
1200	22.55 (23 to 25.3)	Check Again at 1400
1400	22.18 (23 to 25.2)	Check Again at 1500
1500	22.92	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	19.65	River Temp Sang Run @700		
T9	19.46	River Temp Sang Run @900		
T11	19.79	River Temp Sang Run @1100		
T12	19.98	River Temp Sang Run @1200		
T14	20.67	River Temp Sang Run @1400		
T15	21.80	River Temp Sang Run @1500		
Q	44.80	River Flow at Oakland		

J. E. Dahl

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

Print

38.2 = CFS River Flow at Oakland

July 19, 2021

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	-- (23 to 26.4)	Input 0700 SANG RUN Temp
0900	-- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	--	Input 0700 SANG RUN Temp

wwr

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	No Data	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	38.20	River Flow at Oakland		

LB 7/19/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

Print

26.7 = CFS River Flow at Oakland

July 20, 2021

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.85 (23 to 26.4)	Check Again at 0900
0900	25.52 (23 to 25.9)	Check Again at 1100
1100	25.46 (23 to 25.4)	Release at 1130 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	36.00	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.63	River Temp Sang Run @700		
T9	18.53	River Temp Sang Run @900		
T11	19.98	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	26.70	River Flow at Oakland		

SKW 7/20/21

LB 7/20/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

23 = CFS River Flow at Oakland

July 21, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.06 (23 to 26.4)	Check Again at 0900
0900	24.67 (23 to 25.9)	Check Again at 1100
1100	24.17 (23 to 25.4)	Check Again at 1200
1200	23.78 (23 to 25.3)	Check Again at 1400
1400	23.45 (23 to 25.2)	Check Again at 1500
1500	24.71	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.94	River Temp Sang Run @700		
T9	18.68	River Temp Sang Run @900		
T11	19.63	River Temp Sang Run @1100		
T12	20.10	River Temp Sang Run @1200		
T14	21.58	River Temp Sang Run @1400		
T15	23.35	River Temp Sang Run @1500		
Q	23.00	River Flow at Oakland		

BKW

LB 7/21/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

Print

25.4 = CFS River Flow at Oakland

July 22, 2021

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.27 (23 to 26.4)	Check Again at 0900
0900	25.14 (23 to 25.9)	Check Again at 1100
1100	24.71 (23 to 25.4)	Check Again at 1200
1200	24.59 (23 to 25.3)	Check Again at 1400
1400	24.61 (23 to 25.2)	Check Again at 1500
1500	25.26	Release ASAP - not later than 1530 for 1 hour

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	18.06	River Temp Sang Run @700		
T9	18.03	River Temp Sang Run @900		
T11	19.44	River Temp Sang Run @1100		
T12	20.39	River Temp Sang Run @1200		
T14	22.56	River Temp Sang Run @1400		
T15	23.91	River Temp Sang Run @1500		
Q	25.40	River Flow at Oakland		

SKW
Rij

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

Print

UA = CFS River Flow at Oakland

July 23, 2021

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	-- (23 to 26.4)	Need Flow Estimate to Proceed
0900	-- (23 to 25.9)	LWR --
1100	-- (23 to 25.4)	1100-1400 --
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	LJ --
1500	--	--

Tair °C	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	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	UA	River Flow at Oakland		

7/23/21 *RWT*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

17.5 = CFS River Flow at Oakland

July 24, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action	
0700	(23 to 26.4)	<i>LWR</i> <i>1000 - 1600</i> <i>LJ</i>	Input 0700 SANG RUN Temp
0900	(23 to 25.9)		Input 0700 SANG RUN Temp
1100	(23 to 25.4)		Input 0700 SANG RUN Temp
1200	(23 to 25.3)		Input 0700 SANG RUN Temp
1400	(23 to 25.2)		Input 0700 SANG RUN Temp
1500			Input 0700 SANG RUN Temp

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	No Data	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	17.50	River Flow at Oakland		


MJ 7/24/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

16.5 = CFS River Flow at Oakland

July 25, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.64 (23 to 26.4)	Check Again at 0900
0900	25.84 (23 to 25.9)	Check Again at 1100
1100	25.37 (23 to 25.4)	Check Again at 1200
1200	25.48 (23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
1400	-- (23 to 25.2)	
1500	--	--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.03	River Temp Sang Run @700		
T9	18.41	River Temp Sang Run @900		
T11	19.84	River Temp Sang Run @1100		
T12	21.03	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	16.50	River Flow at Oakland		

Ref 7/25/07

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

Print

15.5 = CFS River Flow at Oakland

July 26, 2021

WWR

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	-- (23 to 26.4)	Input 0700 SANG RUN Temp
0900	-- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	--	Input 0700 SANG RUN Temp

Release from 1100-1400
J. L. L.

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	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	15.50	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of


Print

19.6 = CFS River Flow at Oakland

July 27, 2021

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.26 (23 to 26.4)	Check Again at 0900
0900	25.66 (23 to 25.9)	Check Again at 1100
1100	25.73 (23 to 25.4)	Release at 1130 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

J. Adair

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88 PTCLDY	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV		Cloud Cover, Elkins WV
T7	17.75	River Temp Sang Run @700		
T9	17.56	River Temp Sang Run @900		
T11	19.20	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	19.60	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

18.5 = CFS River Flow at Oakland

July 28, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.04 (23 to 26.4)	Check Again at 0900
0900	25.50 (23 to 25.9)	Check Again at 1100
1100	25.41 (23 to 25.4)	Release at 1130 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	36.00	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	18.15	River Temp Sang Run @700		
T9	17.94	River Temp Sang Run @900		
T11	19.39	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	18.50	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

16.5 = CFS River Flow at Oakland

July 29, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.68 (23 to 26.4)	Check Again at 0900
0900	24.21 (23 to 25.9)	Check Again at 1100
1100	23.18 (23 to 25.4)	Check Again at 1200
1200	22.97 (23 to 25.3)	Check Again at 1400
1400	22.59 (23 to 25.2)	Check Again at 1500
1500	21.95	Check Again Tomorrow at 0700

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	18.77	River Temp Sang Run @700		
T9	18.65	River Temp Sang Run @900		
T11	18.87	River Temp Sang Run @1100		
T12	19.25	River Temp Sang Run @1200		
T14	20.36	River Temp Sang Run @1400		
T15	20.58	River Temp Sang Run @1500		
Q	16.50	River Flow at Oakland		

LB 7/29/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

25.4 = CFS River Flow at Oakland

July 30, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.13 (23 to 26.4)	Check Again at 0900
0900	23.73 (23 to 25.9)	Check Again at 1100
1100	23.86 (23 to 25.4)	Check Again at 1200
1200	23.83 (23 to 25.3)	Check Again at 1400
1400	20.71 (23 to 25.2)	Check Again at 1500
1500	18.91	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	19.79	River Temp Sang Run @700		
T9	19.56	River Temp Sang Run @900		
T11	20.39	River Temp Sang Run @1100		
T12	21.01	River Temp Sang Run @1200		
T14	19.96	River Temp Sang Run @1400		
T15	18.51	River Temp Sang Run @1500		
Q	25.40	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

66.3 = CFS River Flow at Oakland

July 31, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.34 (23 to 26.4)	Check Again at 0900
0900	23.09 (23 to 25.9)	Check Again at 1100
1100	23.91 (23 to 25.4)	Check Again at 1200
1200	24.26 (23 to 25.3)	Check Again at 1400
1400	18.94 (23 to 25.2)	Check Again at 1500
1500	18.80	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	18.15	River Temp Sang Run @700		
T9	18.06	River Temp Sang Run @900		
T11	19.08	River Temp Sang Run @1100		
T12	20.29	River Temp Sang Run @1200		
T14	18.34	River Temp Sang Run @1400		
T15	18.22	River Temp Sang Run @1500		
Q	66.30	River Flow at Oakland		

Jan Ellis

LB 7/31/21

Sang Run Temperature Recorder Data - July 2021

Station Name: Sangrun

Date and Time	C°
07/01/21 00:00:00	21.89
07/01/21 00:15:00	21.87
07/01/21 00:30:00	21.84
07/01/21 00:45:00	21.82
07/01/21 01:00:00	21.77
07/01/21 01:15:00	21.72
07/01/21 01:30:00	21.68
07/01/21 01:45:00	21.63
07/01/21 02:00:00	21.58
07/01/21 02:15:00	21.51
07/01/21 02:30:00	21.46
07/01/21 02:45:00	21.41
07/01/21 03:00:00	21.37
07/01/21 03:15:00	21.32
07/01/21 03:30:00	21.27
07/01/21 03:45:00	21.22
07/01/21 04:00:00	21.20
07/01/21 04:15:00	21.15
07/01/21 04:30:00	21.13
07/01/21 04:45:00	21.10
07/01/21 05:00:00	21.06
07/01/21 05:15:00	21.03
07/01/21 05:30:00	20.98
07/01/21 05:45:00	20.94
07/01/21 06:00:00	20.89
07/01/21 06:15:00	20.86
07/01/21 06:30:00	20.84
07/01/21 06:45:00	20.82
07/01/21 07:00:00	20.79
07/01/21 07:15:00	20.77
07/01/21 07:30:00	20.77
07/01/21 07:45:00	20.77
07/01/21 08:00:00	20.77
07/01/21 08:15:00	20.77
07/01/21 08:30:00	20.77
07/01/21 08:45:00	20.79
07/01/21 09:00:00	20.84
07/01/21 09:15:00	20.89
07/01/21 09:30:00	20.94
07/01/21 09:45:00	20.96
07/01/21 10:00:00	21.01
07/01/21 10:15:00	21.06
07/01/21 10:30:00	21.10
07/01/21 10:45:00	21.22
07/01/21 11:00:00	21.29
07/01/21 11:15:00	21.32
07/01/21 11:30:00	21.34
07/01/21 11:45:00	21.46
07/01/21 12:00:00	21.60
07/01/21 12:15:00	21.70

07/01/21 12:30:00	21.94
07/01/21 12:45:00	22.06
07/01/21 13:00:00	22.11
07/01/21 13:15:00	22.20
07/01/21 13:30:00	22.30
07/01/21 13:45:00	22.35
07/01/21 14:00:00	22.37
07/01/21 14:15:00	22.37
07/01/21 14:30:00	22.39
07/01/21 14:45:00	22.37
07/01/21 15:00:00	22.32
07/01/21 15:15:00	22.32
07/01/21 15:30:00	22.35
07/01/21 15:45:00	22.35
07/01/21 16:00:00	22.37
07/01/21 16:15:00	22.42
07/01/21 16:30:00	22.44
07/01/21 16:45:00	22.42
07/01/21 17:00:00	22.39
07/01/21 17:15:00	22.39
07/01/21 17:30:00	22.35
07/01/21 17:45:00	22.30
07/01/21 18:00:00	22.23
07/01/21 18:15:00	22.15
07/01/21 18:30:00	22.08
07/01/21 18:45:00	22.01
07/01/21 19:00:00	21.94
07/01/21 19:15:00	21.84
07/01/21 19:30:00	21.75
07/01/21 19:45:00	21.68
07/01/21 20:00:00	21.60
07/01/21 20:15:00	21.53
07/01/21 20:30:00	21.46
07/01/21 20:45:00	21.41
07/01/21 21:00:00	21.34
07/01/21 21:15:00	21.27
07/01/21 21:30:00	21.20
07/01/21 21:45:00	21.10
07/01/21 22:00:00	21.03
07/01/21 22:15:00	20.96
07/01/21 22:30:00	20.91
07/01/21 22:45:00	20.84
07/01/21 23:00:00	20.79
07/01/21 23:15:00	20.70
07/01/21 23:30:00	20.63
07/01/21 23:45:00	20.58
07/02/21 00:00:00	20.51
07/02/21 00:15:00	20.44
07/02/21 00:30:00	20.41
07/02/21 00:45:00	20.34
07/02/21 01:00:00	20.29
07/02/21 01:15:00	20.25

07/02/21 01:30:00	20.20
07/02/21 01:45:00	20.15
07/02/21 02:00:00	20.13
07/02/21 02:15:00	20.08
07/02/21 02:30:00	20.06
07/02/21 02:45:00	20.03
07/02/21 03:00:00	19.98
07/02/21 03:15:00	19.96
07/02/21 03:30:00	19.91
07/02/21 03:45:00	19.89
07/02/21 04:00:00	19.84
07/02/21 04:15:00	19.79
07/02/21 04:30:00	19.77
07/02/21 04:45:00	19.75
07/02/21 05:00:00	19.70
07/02/21 05:15:00	19.67
07/02/21 05:30:00	19.65
07/02/21 05:45:00	19.63
07/02/21 06:00:00	19.58
07/02/21 06:15:00	19.58
07/02/21 06:30:00	19.56
07/02/21 06:45:00	19.51
07/02/21 07:00:00	19.48
07/02/21 07:15:00	19.46
07/02/21 07:30:00	19.46
07/02/21 07:45:00	19.44
07/02/21 08:00:00	19.44
07/02/21 08:15:00	19.41
07/02/21 08:30:00	19.41
07/02/21 08:45:00	19.41
07/02/21 09:00:00	19.48
07/02/21 09:15:00	19.56
07/02/21 09:30:00	19.67
07/02/21 09:45:00	19.82
07/02/21 10:00:00	19.86
07/02/21 10:15:00	20.01
07/02/21 10:30:00	20.13
07/02/21 10:45:00	20.29
07/02/21 11:00:00	20.41
07/02/21 11:15:00	20.48
07/02/21 11:30:00	20.53
07/02/21 11:45:00	20.60
07/02/21 12:00:00	20.58
07/02/21 12:15:00	20.77
07/02/21 12:30:00	20.98
07/02/21 12:45:00	20.98
07/02/21 13:00:00	21.08
07/02/21 13:15:00	19.84
07/02/21 13:30:00	17.70
07/02/21 13:45:00	17.44
07/02/21 14:00:00	17.18
07/02/21 14:15:00	17.08

07/02/21 14:30:00	17.18
07/02/21 14:45:00	17.06
07/02/21 15:00:00	17.03
07/02/21 15:15:00	17.01
07/02/21 15:30:00	17.03
07/02/21 15:45:00	17.11
07/02/21 16:00:00	17.25
07/02/21 16:15:00	17.37
07/02/21 16:30:00	17.63
07/02/21 16:45:00	17.75
07/02/21 17:00:00	17.80
07/02/21 17:15:00	17.89
07/02/21 17:30:00	17.94
07/02/21 17:45:00	18.10
07/02/21 18:00:00	18.94
07/02/21 18:15:00	19.75
07/02/21 18:30:00	20.36
07/02/21 18:45:00	20.70
07/02/21 19:00:00	20.91
07/02/21 19:15:00	21.03
07/02/21 19:30:00	21.10
07/02/21 19:45:00	21.13
07/02/21 20:00:00	21.13
07/02/21 20:15:00	21.10
07/02/21 20:30:00	21.08
07/02/21 20:45:00	21.06
07/02/21 21:00:00	20.98
07/02/21 21:15:00	20.89
07/02/21 21:30:00	20.82
07/02/21 21:45:00	20.72
07/02/21 22:00:00	20.65
07/02/21 22:15:00	20.58
07/02/21 22:30:00	20.51
07/02/21 22:45:00	20.46
07/02/21 23:00:00	20.39
07/02/21 23:15:00	20.34
07/02/21 23:30:00	20.29
07/02/21 23:45:00	20.22
07/03/21 00:00:00	20.17
07/03/21 00:15:00	20.13
07/03/21 00:30:00	20.08
07/03/21 00:45:00	20.03
07/03/21 01:00:00	19.96
07/03/21 01:15:00	19.89
07/03/21 01:30:00	19.84
07/03/21 01:45:00	19.77
07/03/21 02:00:00	19.70
07/03/21 02:15:00	19.63
07/03/21 02:30:00	19.56
07/03/21 02:45:00	19.48
07/03/21 03:00:00	19.44
07/03/21 03:15:00	19.39

07/03/21 03:30:00	19.34
07/03/21 03:45:00	19.29
07/03/21 04:00:00	19.25
07/03/21 04:15:00	19.20
07/03/21 04:30:00	19.15
07/03/21 04:45:00	19.10
07/03/21 05:00:00	19.06
07/03/21 05:15:00	18.98
07/03/21 05:30:00	18.94
07/03/21 05:45:00	18.89
07/03/21 06:00:00	18.82
07/03/21 06:15:00	18.77
07/03/21 06:30:00	18.70
07/03/21 06:45:00	18.63
07/03/21 07:00:00	18.60
07/03/21 07:15:00	18.56
07/03/21 07:30:00	18.53
07/03/21 07:45:00	18.49
07/03/21 08:00:00	18.49
07/03/21 08:15:00	18.46
07/03/21 08:30:00	18.44
07/03/21 08:45:00	18.46
07/03/21 09:00:00	18.44
07/03/21 09:15:00	18.46
07/03/21 09:30:00	18.51
07/03/21 09:45:00	18.49
07/03/21 10:00:00	18.49
07/03/21 10:15:00	18.51
07/03/21 10:30:00	18.63
07/03/21 10:45:00	18.68
07/03/21 11:00:00	18.79
07/03/21 11:15:00	18.89
07/03/21 11:30:00	19.06
07/03/21 11:45:00	19.22
07/03/21 12:00:00	19.37
07/03/21 12:15:00	19.41
07/03/21 12:30:00	19.44
07/03/21 12:45:00	19.53
07/03/21 13:00:00	19.25
07/03/21 13:15:00	17.68
07/03/21 13:30:00	16.70
07/03/21 13:45:00	16.46
07/03/21 14:00:00	16.39
07/03/21 14:15:00	16.32
07/03/21 14:30:00	16.30
07/03/21 14:45:00	16.32
07/03/21 15:00:00	16.32
07/03/21 15:15:00	16.37
07/03/21 15:30:00	16.37
07/03/21 15:45:00	16.46
07/03/21 16:00:00	16.63
07/03/21 16:15:00	16.72

07/03/21 16:30:00	17.06
07/03/21 16:45:00	17.34
07/03/21 17:00:00	17.61
07/03/21 17:15:00	17.91
07/03/21 17:30:00	18.20
07/03/21 17:45:00	18.46
07/03/21 18:00:00	18.68
07/03/21 18:15:00	18.70
07/03/21 18:30:00	18.96
07/03/21 18:45:00	19.29
07/03/21 19:00:00	19.58
07/03/21 19:15:00	19.72
07/03/21 19:30:00	19.84
07/03/21 19:45:00	19.86
07/03/21 20:00:00	19.86
07/03/21 20:15:00	19.84
07/03/21 20:30:00	19.79
07/03/21 20:45:00	19.72
07/03/21 21:00:00	19.63
07/03/21 21:15:00	19.53
07/03/21 21:30:00	19.41
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07/30/21 09:45:00	19.86
07/30/21 10:00:00	19.98
07/30/21 10:15:00	20.17
07/30/21 10:30:00	20.39
07/30/21 10:45:00	20.58
07/30/21 11:00:00	20.82
07/30/21 11:15:00	20.94
07/30/21 11:30:00	21.01
07/30/21 11:45:00	21.27
07/30/21 12:00:00	21.53
07/30/21 12:15:00	21.80
07/30/21 12:30:00	22.01
07/30/21 12:45:00	22.23
07/30/21 13:00:00	22.15
07/30/21 13:15:00	21.77
07/30/21 13:30:00	19.91
07/30/21 13:45:00	18.75
07/30/21 14:00:00	18.49
07/30/21 14:15:00	18.39
07/30/21 14:30:00	18.51
07/30/21 14:45:00	18.58
07/30/21 15:00:00	18.60
07/30/21 15:15:00	18.63
07/30/21 15:30:00	18.75
07/30/21 15:45:00	18.96
07/30/21 16:00:00	19.20
07/30/21 16:15:00	19.32
07/30/21 16:30:00	19.60
07/30/21 16:45:00	19.82
07/30/21 17:00:00	19.91
07/30/21 17:15:00	20.22
07/30/21 17:30:00	20.41
07/30/21 17:45:00	20.63
07/30/21 18:00:00	20.79
07/30/21 18:15:00	20.82

07/30/21 18:30:00	20.84
07/30/21 18:45:00	20.86
07/30/21 19:00:00	20.86
07/30/21 19:15:00	20.84
07/30/21 19:30:00	20.72
07/30/21 19:45:00	20.63
07/30/21 20:00:00	20.56
07/30/21 20:15:00	20.44
07/30/21 20:30:00	20.32
07/30/21 20:45:00	20.10
07/30/21 21:00:00	19.98
07/30/21 21:15:00	19.86
07/30/21 21:30:00	19.77
07/30/21 21:45:00	19.70
07/30/21 22:00:00	19.65
07/30/21 22:15:00	19.58
07/30/21 22:30:00	19.56
07/30/21 22:45:00	19.53
07/30/21 23:00:00	19.48
07/30/21 23:15:00	19.48
07/30/21 23:30:00	19.46
07/30/21 23:45:00	19.44
07/31/21 00:00:00	19.41
07/31/21 00:15:00	19.34
07/31/21 00:30:00	19.34
07/31/21 00:45:00	19.32
07/31/21 01:00:00	19.25
07/31/21 01:15:00	19.22
07/31/21 01:30:00	19.15
07/31/21 01:45:00	19.10
07/31/21 02:00:00	19.03
07/31/21 02:15:00	18.96
07/31/21 02:30:00	18.91
07/31/21 02:45:00	18.87
07/31/21 03:00:00	18.79
07/31/21 03:15:00	18.75
07/31/21 03:30:00	18.68
07/31/21 03:45:00	18.63
07/31/21 04:00:00	18.56
07/31/21 04:15:00	18.51
07/31/21 04:30:00	18.46
07/31/21 04:45:00	18.44
07/31/21 05:00:00	18.37
07/31/21 05:15:00	18.34
07/31/21 05:30:00	18.30
07/31/21 05:45:00	18.25
07/31/21 06:00:00	18.22
07/31/21 06:15:00	18.18
07/31/21 06:30:00	18.15
07/31/21 06:45:00	18.10
07/31/21 07:00:00	18.08
07/31/21 07:15:00	18.06

07/31/21 07:30:00	18.06
07/31/21 07:45:00	18.01
07/31/21 08:00:00	17.99
07/31/21 08:15:00	17.96
07/31/21 08:30:00	18.06
07/31/21 08:45:00	18.22
07/31/21 09:00:00	18.27
07/31/21 09:15:00	18.32
07/31/21 09:30:00	18.49
07/31/21 09:45:00	18.58
07/31/21 10:00:00	18.68
07/31/21 10:15:00	18.82
07/31/21 10:30:00	19.08
07/31/21 10:45:00	19.37
07/31/21 11:00:00	19.63
07/31/21 11:15:00	19.94
07/31/21 11:30:00	20.29
07/31/21 11:45:00	20.60
07/31/21 12:00:00	20.86
07/31/21 12:15:00	21.22
07/31/21 12:30:00	21.51
07/31/21 12:45:00	21.58
07/31/21 13:00:00	21.72
07/31/21 13:15:00	21.34
07/31/21 13:30:00	18.96
07/31/21 13:45:00	18.56
07/31/21 14:00:00	18.34
07/31/21 14:15:00	18.32
07/31/21 14:30:00	18.22
07/31/21 14:45:00	18.25
07/31/21 15:00:00	18.18
07/31/21 15:15:00	18.20
07/31/21 15:30:00	18.18
07/31/21 15:45:00	18.25
07/31/21 16:00:00	18.30
07/31/21 16:15:00	18.41
07/31/21 16:30:00	18.60
07/31/21 16:45:00	18.75
07/31/21 17:00:00	18.91
07/31/21 17:15:00	19.08
07/31/21 17:30:00	19.27
07/31/21 17:45:00	19.34
07/31/21 18:00:00	19.41
07/31/21 18:15:00	19.46
07/31/21 18:30:00	19.53
07/31/21 18:45:00	19.58
07/31/21 19:00:00	19.56
07/31/21 19:15:00	19.56
07/31/21 19:30:00	19.56
07/31/21 19:45:00	19.56
07/31/21 20:00:00	19.53
07/31/21 20:15:00	19.58

07/31/21 20:30:00	19.63
07/31/21 20:45:00	19.67
07/31/21 21:00:00	19.77
07/31/21 21:15:00	19.84
07/31/21 21:30:00	19.89
07/31/21 21:45:00	19.94
07/31/21 22:00:00	20.01
07/31/21 22:15:00	20.03
07/31/21 22:30:00	20.06
07/31/21 22:45:00	20.06
07/31/21 23:00:00	20.06
07/31/21 23:15:00	20.01
07/31/21 23:30:00	20.06
07/31/21 23:45:00	20.01