

**From:** [Hopkins, Scott](#)  
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**Subject:** Chelan River Temperature Monitoring Data - 2017 July Monthly Report  
**Date:** Wednesday, August 30, 2017 3:25:58 PM  
**Attachments:** [2017 Chelan River Daily Average Temperature Data July Report.pdf](#)  
[2017 Chelan River Hourly Temperature Data July Report.pdf](#)

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PUBLIC UTILITY DISTRICT NO. 1 of CHELAN COUNTY

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**To:** Department of Ecology  
Water Quality Program  
Central Regional Office  
Chelan River Fishery Forum:  
Washington Department of Ecology  
Washington Department of Fish and Wildlife  
United States Forest Service  
National Park Service  
United States Fish and Wildlife Service  
National Marine Fisheries Service  
CCT (Colville)  
YN (Yakama)  
CTUIR (Umatilla tribe)  
Lake Chelan Sportsman Association  
United States Geological Survey

Washington State Parks and Recreation Commission  
Washington State Recreation and Conservation Office  
City of Chelan  
Manson Parks and Recreation Department  
Lake Chelan Recreation Association  
American Whitewater

From: Scott Hopkins, Fisheries Biologist II  
Public Utility District No. 1 of Chelan County (Chelan PUD)  
[scott.hopkins@chelanpud.org](mailto:scott.hopkins@chelanpud.org)  
(509)661-4763

Re: Lake Chelan Hydroelectric Project No. 637 (Project)  
Appendix D 401 Water Quality Certification Condition  
V.C.i)  
Water Temperature Data Reports: July 2017

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Dear Ecology Water Quality Program, Chelan River Fishery Forum and  
Other Parties:

Water temperature monitoring data for July 2017 are provided in the  
attached files. This information will be posted to the Lake Chelan  
Implementation web page under resource documents.

Please feel free to call or email any questions or comments.

**Scott Hopkins**  
**Fisheries Biologist**  
**Chelan County PUD**

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2017 Chelan River Daily Average Temperature Data - July Report

Date	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/1/2017	17.7	18.0	18.3	18.2	18.2	NA	18.4	18.3
7/2/2017	20.2	20.4	20.5	20.4	20.5	NA	20.4	20.3
7/3/2017	20.4	20.6	20.7	20.7	20.7	NA	20.6	20.5
7/4/2017	20.2	20.4	20.4	20.4	20.5	NA	20.4	20.2
7/5/2017	19.2	19.3	19.8	19.8	19.8	NA	19.5	19.4
7/6/2017	19.1	19.2	20.1	20.1	20.1	NA	20.1	20.1
7/7/2017	20.2	20.4	21.1	21.0	21.0	NA	21.1	21.0
7/8/2017	21.8	21.9	22.3	22.3	22.3	NA	22.2	22.0
7/9/2017	22.0	22.2	22.2	22.2	22.2	NA	22.1	21.8
7/10/2017	22.0	22.2	22.2	22.1	22.2	NA	22.2	22.0
7/11/2017	21.7	21.8	21.9	21.8	21.9	NA	21.8	21.7
7/12/2017	20.2	20.2	20.7	20.7	20.8	NA	20.9	20.8
7/13/2017	20.6	20.8	20.9	20.8	20.8	NA	21.4	21.3
7/14/2017	21.1	21.2	21.4	21.3	21.4	NA	21.6	21.4
7/15/2017	21.1	21.3	21.3	21.2	21.3	NA	21.6	21.5
7/16/2017	21.4	21.5	21.4	21.2	21.2	NA	21.6	21.4
7/17/2017	21.3	21.4	21.3	21.1	21.2	NA	21.4	21.3
7/18/2017	20.7	20.9	21.5	21.5	21.5	NA	21.2	21.0
7/19/2017	20.8	21.0	21.2	21.2	21.2	NA	21.3	21.3
7/20/2017	21.1	21.3	20.9	20.7	20.8	NA	21.5	21.4
7/21/2017	21.3	21.5	21.2	21.0	21.2	NA	21.4	21.3
7/22/2017	21.1	21.3	21.9	21.9	21.6	NA	21.6	21.4
7/23/2017	21.1	21.4	21.8	22.0	22.0	NA	22.0	21.9
7/24/2017	22.1	22.3	22.0	21.7	22.0	NA	22.4	22.2
7/25/2017	21.7	21.8	22.1	22.1	22.1	NA	22.1	22.0
7/26/2017	20.2	20.3	21.6	22.0	21.5	21.8	21.4	21.3
7/27/2017	22.2	22.4	21.9	21.7	22.5	22.4	22.7	22.7
7/28/2017	22.7	22.8	22.4	22.2	22.7	22.6	22.9	22.8
7/29/2017	22.8	22.9	22.7	22.5	22.9	22.9	23.0	23.0
7/30/2017	22.9	23.0	22.7	22.6	23.0	23.0	23.1	23.0
7/31/2017	22.9	23.0	22.7	22.6	22.9	22.9	23.0	23.0

# 2017 Chelan River Hourly Temperature Data July Report

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/1/2017	1	16.8	16.8	17.0	17.1	17.2	NA	17.7	17.6
7/1/2017	2	16.8	16.7	16.9	17.0	17.1	NA	17.6	17.3
7/1/2017	3	16.6	16.7	16.9	16.9	17.0	NA	17.5	17.3
7/1/2017	4	16.7	16.7	16.8	16.8	16.9	NA	17.4	17.2
7/1/2017	5	16.4	16.5	16.8	16.8	16.9	NA	17.3	17.0
7/1/2017	6	16.5	16.5	16.6	16.7	16.8	NA	17.2	16.9
7/1/2017	7	16.5	16.7	16.7	16.7	16.7	NA	17.1	17.1
7/1/2017	8	16.4	16.7	17.0	16.7	16.8	NA	17.2	17.1
7/1/2017	9	16.5	16.6	17.1	17.0	17.0	NA	17.3	17.1
7/1/2017	10	16.5	16.8	17.3	17.3	17.3	NA	17.4	17.3
7/1/2017	11	16.6	16.8	17.7	17.4	17.5	NA	17.6	17.6
7/1/2017	12	17.3	17.8	18.2	17.8	17.8	NA	18.0	18.0
7/1/2017	13	17.5	17.5	18.9	18.4	18.3	NA	18.4	18.5
7/1/2017	14	17.4	17.5	18.9	19.1	19.0	NA	18.7	18.6
7/1/2017	15	17.8	18.3	18.9	19.0	19.1	NA	18.9	18.7
7/1/2017	16	17.7	18.2	19.2	18.9	19.1	NA	19.1	18.8
7/1/2017	17	18.2	18.7	19.0	18.9	19.2	NA	19.3	19.1
7/1/2017	18	18.8	19.2	19.3	18.8	18.9	NA	19.5	19.4
7/1/2017	19	18.9	19.1	19.7	19.4	19.4	NA	19.6	19.7
7/1/2017	20	19.3	19.8	19.7	19.6	19.7	NA	19.6	19.8
7/1/2017	21	19.7	20.2	19.9	19.8	19.8	NA	19.7	19.9
7/1/2017	22	20.0	20.3	20.0	19.9	20.0	NA	19.8	20.0
7/1/2017	23	20.1	20.3	20.0	20.0	20.0	NA	19.9	20.0
7/1/2017	24	20.1	20.2	20.0	20.0	20.0	NA	19.9	19.9
7/2/2017	1	20.0	20.2	19.9	19.9	19.9	NA	20.0	20.0
7/2/2017	2	20.0	20.2	19.8	19.8	19.9	NA	20.0	19.9
7/2/2017	3	19.9	20.1	19.8	19.8	19.8	NA	20.0	19.9
7/2/2017	4	19.9	20.0	19.8	19.8	19.8	NA	20.0	20.0
7/2/2017	5	19.8	20.0	19.8	19.8	19.8	NA	20.0	19.9
7/2/2017	6	19.8	20.0	19.8	19.8	19.8	NA	20.0	19.9
7/2/2017	7	19.8	20.0	19.9	19.8	19.8	NA	20.0	19.9
7/2/2017	8	19.8	20.0	20.0	19.9	19.9	NA	20.0	19.9
7/2/2017	9	19.8	20.0	20.2	20.1	20.1	NA	20.0	19.9
7/2/2017	10	19.9	20.1	20.3	20.2	20.3	NA	20.1	20.0
7/2/2017	11	19.9	20.2	20.5	20.5	20.5	NA	20.2	20.1
7/2/2017	12	20.1	20.3	20.7	20.7	20.7	NA	20.3	20.2
7/2/2017	13	20.2	20.4	20.9	20.8	20.9	NA	20.4	20.3
7/2/2017	14	20.3	20.6	21.0	21.0	21.0	NA	20.5	20.4
7/2/2017	15	20.4	20.7	21.1	21.1	21.2	NA	20.7	20.5
7/2/2017	16	20.5	20.7	21.1	21.1	21.2	NA	20.8	20.6
7/2/2017	17	20.5	20.8	21.1	21.1	21.2	NA	20.8	20.7
7/2/2017	18	20.6	20.9	21.0	21.0	21.1	NA	20.9	20.7
7/2/2017	19	20.7	20.9	20.9	20.9	21.0	NA	20.9	20.7
7/2/2017	20	20.6	20.8	20.8	20.8	20.9	NA	20.8	20.7
7/2/2017	21	20.6	20.8	20.7	20.7	20.8	NA	20.8	20.7
7/2/2017	22	20.6	20.7	20.7	20.7	20.7	NA	20.7	20.6
7/2/2017	23	20.5	20.7	20.7	20.6	20.7	NA	20.6	20.6

7/2/2017	24	20.4	20.6	20.6	20.6	20.7	NA	20.6	20.4
7/3/2017	1	20.3	20.5	20.5	20.5	20.5	NA	20.5	20.4
7/3/2017	2	20.3	20.4	20.4	20.4	20.4	NA	20.4	20.3
7/3/2017	3	20.2	20.4	20.3	20.3	20.4	NA	20.4	20.3
7/3/2017	4	20.2	20.3	20.3	20.2	20.3	NA	20.4	20.2
7/3/2017	5	20.2	20.3	20.2	20.2	20.3	NA	20.4	20.2
7/3/2017	6	20.1	20.3	20.2	20.2	20.2	NA	20.4	20.2
7/3/2017	7	20.1	20.3	20.2	20.2	20.2	NA	20.3	20.2
7/3/2017	8	20.1	20.3	20.3	20.2	20.3	NA	20.3	20.2
7/3/2017	9	20.1	20.3	20.4	20.3	20.4	NA	20.3	20.2
7/3/2017	10	20.1	20.3	20.5	20.5	20.5	NA	20.3	20.2
7/3/2017	11	20.2	20.4	20.7	20.6	20.7	NA	20.3	20.3
7/3/2017	12	20.3	20.5	20.8	20.7	20.8	NA	20.4	20.4
7/3/2017	13	20.4	20.6	20.9	20.9	20.9	NA	20.5	20.5
7/3/2017	14	20.5	20.7	21.0	21.0	21.1	NA	20.6	20.6
7/3/2017	15	20.6	20.8	21.1	21.1	21.2	NA	20.7	20.7
7/3/2017	16	20.6	20.9	21.2	21.2	21.2	NA	20.8	20.8
7/3/2017	17	20.7	20.9	21.2	21.2	21.2	NA	20.9	20.8
7/3/2017	18	20.8	21.0	21.1	21.1	21.2	NA	21.0	20.9
7/3/2017	19	20.8	21.0	21.1	21.1	21.1	NA	21.0	20.9
7/3/2017	20	20.8	21.0	21.0	21.0	21.1	NA	20.9	20.9
7/3/2017	21	20.7	20.9	20.9	20.9	21.0	NA	20.9	20.8
7/3/2017	22	20.7	20.8	20.8	20.8	20.9	NA	20.8	20.7
7/3/2017	23	20.6	20.7	20.7	20.7	20.7	NA	20.8	20.6
7/3/2017	24	20.5	20.7	20.6	20.6	20.7	NA	20.7	20.6
7/4/2017	1	20.5	20.6	20.6	20.5	20.6	NA	20.6	20.5
7/4/2017	2	20.4	20.5	20.5	20.5	20.5	NA	20.6	20.5
7/4/2017	3	20.3	20.4	20.4	20.4	20.5	NA	20.5	20.3
7/4/2017	4	20.2	20.3	20.3	20.3	20.3	NA	20.5	20.2
7/4/2017	5	20.1	20.2	20.2	20.2	20.2	NA	20.4	20.2
7/4/2017	6	20.1	20.2	20.2	20.1	20.2	NA	20.4	20.1
7/4/2017	7	20.0	20.2	20.1	20.1	20.1	NA	20.3	20.1
7/4/2017	8	20.0	20.2	20.2	20.1	20.2	NA	20.3	20.1
7/4/2017	9	20.0	20.2	20.3	20.2	20.3	NA	20.2	20.1
7/4/2017	10	20.0	20.2	20.4	20.3	20.4	NA	20.2	20.1
7/4/2017	11	20.1	20.2	20.5	20.5	20.5	NA	20.2	20.2
7/4/2017	12	20.1	20.4	20.7	20.6	20.7	NA	20.3	20.2
7/4/2017	13	20.3	20.5	20.7	20.7	20.7	NA	20.4	20.3
7/4/2017	14	20.3	20.5	20.8	20.7	20.8	NA	20.4	20.4
7/4/2017	15	20.3	20.5	20.8	20.9	20.9	NA	20.5	20.4
7/4/2017	16	20.4	20.6	20.8	20.8	20.9	NA	20.6	20.5
7/4/2017	17	20.4	20.7	20.9	20.8	20.9	NA	20.6	20.5
7/4/2017	18	20.5	20.6	20.8	20.8	20.9	NA	20.7	20.5
7/4/2017	19	20.5	20.7	20.6	20.7	20.7	NA	20.5	20.4
7/4/2017	20	20.5	20.6	20.5	20.5	20.6	NA	20.4	20.4
7/4/2017	21	20.4	20.5	20.4	20.4	20.5	NA	20.2	20.3
7/4/2017	22	20.3	20.4	20.2	20.2	20.3	NA	20.1	20.1
7/4/2017	23	20.1	20.2	20.0	20.0	20.1	NA	20.0	19.8
7/4/2017	24	20.0	20.1	19.8	19.8	19.9	NA	19.8	19.6
7/5/2017	1	19.8	19.9	19.7	19.7	19.8	NA	19.7	19.3
7/5/2017	2	19.8	19.8	19.6	19.6	19.7	NA	19.6	19.3
7/5/2017	3	19.7	19.8	19.6	19.6	19.6	NA	19.5	19.3
7/5/2017	4	19.8	19.9	19.6	19.6	19.6	NA	19.4	19.4
7/5/2017	5	19.8	20.0	19.6	19.6	19.6	NA	19.4	19.5

7/5/2017	6	19.8	20.0	19.6	19.6	19.6	NA	19.4	19.6
7/5/2017	7	19.8	19.9	19.7	19.6	19.7	NA	19.4	19.6
7/5/2017	8	19.7	19.8	19.6	19.6	19.6	NA	19.4	19.4
7/5/2017	9	19.6	19.6	19.6	19.6	19.6	NA	19.4	19.1
7/5/2017	10	19.4	19.4	19.7	19.6	19.7	NA	19.3	18.9
7/5/2017	11	19.3	19.2	19.8	19.7	19.8	NA	19.2	18.9
7/5/2017	12	19.0	19.2	19.9	19.8	19.9	NA	19.0	18.9
7/5/2017	13	18.9	19.0	20.0	20.0	20.0	NA	19.0	18.9
7/5/2017	14	18.7	18.8	20.1	20.1	20.2	NA	19.2	19.0
7/5/2017	15	18.7	18.9	20.1	20.1	20.1	NA	19.4	19.1
7/5/2017	16	18.6	18.7	20.2	20.2	20.2	NA	19.6	19.4
7/5/2017	17	18.8	19.1	20.1	20.1	20.1	NA	19.7	19.7
7/5/2017	18	19.2	19.5	20.0	20.0	20.1	NA	19.8	19.9
7/5/2017	19	19.2	19.4	20.1	20.0	20.1	NA	19.8	20.0
7/5/2017	20	19.3	19.2	19.9	20.0	20.0	NA	19.9	19.9
7/5/2017	21	19.1	19.0	19.8	19.9	20.0	NA	20.0	20.0
7/5/2017	22	18.8	18.7	19.6	19.7	19.8	NA	19.9	19.7
7/5/2017	23	18.6	18.5	19.4	19.5	19.6	NA	19.8	19.6
7/5/2017	24	18.5	18.6	19.3	19.4	19.5	NA	19.7	19.5
7/6/2017	1	18.4	18.4	19.2	19.2	19.2	NA	19.6	19.4
7/6/2017	2	18.2	18.3	19.1	19.1	19.2	NA	19.5	19.3
7/6/2017	3	18.5	18.4	19.2	19.1	19.2	NA	19.5	19.6
7/6/2017	4	18.6	19.0	19.4	19.1	19.2	NA	19.5	19.6
7/6/2017	5	19.1	19.4	19.4	19.3	19.3	NA	19.6	19.7
7/6/2017	6	19.1	19.4	19.6	19.4	19.5	NA	19.6	19.8
7/6/2017	7	19.0	19.1	19.7	19.6	19.6	NA	19.7	19.9
7/6/2017	8	19.0	19.0	19.8	19.7	19.7	NA	19.7	19.8
7/6/2017	9	18.9	19.0	19.9	19.8	19.9	NA	19.8	19.8
7/6/2017	10	18.8	18.7	20.1	20.0	20.1	NA	19.8	19.7
7/6/2017	11	18.9	18.8	20.2	20.2	20.2	NA	20.0	19.7
7/6/2017	12	19.2	19.4	20.3	20.3	20.3	NA	20.1	20.0
7/6/2017	13	19.4	19.7	20.6	20.6	20.6	NA	20.3	20.2
7/6/2017	14	19.7	19.8	20.9	20.8	20.8	NA	20.5	20.5
7/6/2017	15	19.8	20.1	21.0	21.1	21.1	NA	20.6	20.7
7/6/2017	16	19.9	20.3	21.2	21.2	21.2	NA	20.7	20.6
7/6/2017	17	19.8	19.8	21.1	21.1	21.2	NA	20.7	20.7
7/6/2017	18	19.6	19.3	20.8	20.8	21.0	NA	20.8	20.8
7/6/2017	19	19.8	19.5	20.7	20.8	20.9	NA	20.7	20.7
7/6/2017	20	19.6	19.5	20.4	20.6	20.8	NA	20.6	20.6
7/6/2017	21	19.1	19.2	20.2	20.4	20.5	NA	20.6	20.2
7/6/2017	22	19.0	19.7	19.9	20.0	20.2	NA	20.4	20.1
7/6/2017	23	18.9	18.7	19.9	19.7	19.9	NA	20.2	20.1
7/6/2017	24	18.8	18.3	19.7	19.7	19.8	NA	19.9	20.1
7/7/2017	1	18.9	18.7	19.8	19.6	19.7	NA	20.1	20.0
7/7/2017	2	19.0	19.8	19.8	19.6	19.8	NA	20.1	19.8
7/7/2017	3	19.1	19.7	19.9	19.7	19.7	NA	20.1	20.0
7/7/2017	4	19.1	18.6	19.8	19.7	19.8	NA	20.2	20.4
7/7/2017	5	19.1	19.4	19.8	19.7	19.8	NA	20.2	20.2
7/7/2017	6	19.3	19.6	19.9	19.7	19.8	NA	20.3	20.3
7/7/2017	7	19.2	19.9	19.9	19.9	19.9	NA	20.5	20.2
7/7/2017	8	19.6	20.0	20.3	20.1	20.1	NA	20.5	20.3
7/7/2017	9	19.4	19.7	20.4	20.3	20.2	NA	20.6	20.3
7/7/2017	10	19.4	20.0	20.6	20.5	20.5	NA	20.7	20.4
7/7/2017	11	20.0	20.0	20.7	20.5	20.5	NA	20.8	21.0

7/7/2017	12	20.4	20.5	21.4	21.2	21.1	NA	21.1	21.3
7/7/2017	13	20.7	20.9	21.8	21.7	21.7	NA	21.4	21.6
7/7/2017	14	21.0	21.3	22.1	22.1	22.1	NA	21.6	21.7
7/7/2017	15	21.0	21.1	22.2	22.2	22.3	NA	21.8	21.7
7/7/2017	16	20.9	21.0	22.3	22.3	22.3	NA	21.8	21.6
7/7/2017	17	20.6	20.8	22.1	22.2	22.3	NA	21.8	21.6
7/7/2017	18	20.6	20.7	22.0	21.9	22.0	NA	21.8	21.6
7/7/2017	19	20.4	20.6	21.7	21.7	21.8	NA	21.7	21.3
7/7/2017	20	20.5	20.8	21.5	21.5	21.7	NA	21.7	21.6
7/7/2017	21	20.9	21.1	21.6	21.5	21.5	NA	21.8	21.6
7/7/2017	22	21.2	21.6	21.7	21.6	21.7	NA	21.8	21.8
7/7/2017	23	21.6	22.1	21.9	21.8	21.8	NA	21.9	21.9
7/7/2017	24	22.2	22.5	22.1	21.9	22.0	NA	22.0	22.1
7/8/2017	1	22.4	22.6	22.2	22.1	22.1	NA	22.1	22.3
7/8/2017	2	22.4	22.5	22.2	22.1	22.2	NA	22.2	22.3
7/8/2017	3	22.3	22.5	22.3	22.2	22.2	NA	22.3	22.4
7/8/2017	4	22.3	22.5	22.3	22.2	22.3	NA	22.4	22.3
7/8/2017	5	22.3	22.4	22.3	22.2	22.2	NA	22.5	22.3
7/8/2017	6	22.2	22.4	22.2	22.2	22.2	NA	22.5	22.3
7/8/2017	7	22.2	22.4	22.2	22.2	22.2	NA	22.5	22.3
7/8/2017	8	22.2	22.4	22.3	22.2	22.3	NA	22.5	22.2
7/8/2017	9	22.2	22.3	22.4	22.3	22.4	NA	22.5	22.2
7/8/2017	10	22.2	22.3	22.5	22.5	22.5	NA	22.5	22.2
7/8/2017	11	22.2	22.4	22.7	22.6	22.7	NA	22.5	22.3
7/8/2017	12	22.3	22.6	22.8	22.8	22.8	NA	22.5	22.4
7/8/2017	13	22.4	22.7	22.9	22.9	22.9	NA	22.5	22.5
7/8/2017	14	22.5	22.7	23.0	23.0	23.1	NA	22.5	22.5
7/8/2017	15	22.5	22.7	23.0	23.0	23.1	NA	22.5	22.5
7/8/2017	16	22.5	22.7	22.9	23.0	23.1	NA	22.5	22.4
7/8/2017	17	22.3	22.1	22.8	22.8	22.9	NA	22.5	22.0
7/8/2017	18	21.6	21.5	22.5	22.5	22.7	NA	22.2	21.7
7/8/2017	19	21.1	20.9	22.2	22.3	22.4	NA	21.9	21.5
7/8/2017	20	20.7	20.5	21.8	21.9	22.1	NA	21.7	21.5
7/8/2017	21	20.2	20.3	21.5	21.5	21.7	NA	21.5	21.1
7/8/2017	22	20.3	20.5	21.3	21.3	21.4	NA	21.4	21.2
7/8/2017	23	20.3	20.4	21.4	21.3	21.3	NA	21.4	21.2
7/8/2017	24	20.5	20.7	21.3	21.3	21.4	NA	21.4	21.2
7/9/2017	1	20.8	21.1	21.4	21.4	21.4	NA	21.5	21.1
7/9/2017	2	21.2	21.6	21.4	21.4	21.5	NA	21.5	21.2
7/9/2017	3	21.3	21.5	21.6	21.5	21.5	NA	21.6	21.4
7/9/2017	4	21.3	21.5	21.6	21.5	21.6	NA	21.6	21.5
7/9/2017	5	21.5	21.7	21.7	21.6	21.6	NA	21.7	21.5
7/9/2017	6	21.6	21.8	21.7	21.6	21.6	NA	21.7	21.6
7/9/2017	7	21.7	21.9	21.8	21.7	21.7	NA	21.8	21.6
7/9/2017	8	21.7	22.0	21.9	21.8	21.8	NA	21.9	21.6
7/9/2017	9	21.9	22.1	22.1	22.0	22.0	NA	22.0	21.7
7/9/2017	10	22.0	22.2	22.3	22.2	22.2	NA	22.1	21.8
7/9/2017	11	22.0	22.2	22.4	22.3	22.4	NA	22.2	21.9
7/9/2017	12	22.1	22.3	22.5	22.5	22.5	NA	22.2	22.0
7/9/2017	13	22.2	22.4	22.6	22.6	22.6	NA	22.3	22.1
7/9/2017	14	22.3	22.5	22.7	22.6	22.7	NA	22.4	22.1
7/9/2017	15	22.3	22.6	22.8	22.7	22.7	NA	22.5	22.2
7/9/2017	16	22.4	22.7	22.8	22.8	22.9	NA	22.5	22.3
7/9/2017	17	22.5	22.7	22.8	22.8	22.9	NA	22.5	22.4



7/9/2017	18	22.4	22.6	22.7	22.7	22.8	NA	22.5	22.3
7/9/2017	19	22.3	22.4	22.6	22.6	22.7	NA	22.4	22.1
7/9/2017	20	22.3	22.5	22.5	22.5	22.6	NA	22.4	21.9
7/9/2017	21	22.3	22.4	22.4	22.4	22.5	NA	22.4	22.0
7/9/2017	22	22.3	22.5	22.3	22.3	22.3	NA	22.4	21.8
7/9/2017	23	22.3	22.5	22.2	22.2	22.3	NA	22.4	21.9
7/9/2017	24	22.3	22.4	22.2	22.1	22.2	NA	22.4	21.9
7/10/2017	1	22.3	22.3	22.2	22.1	22.2	NA	22.3	22.2
7/10/2017	2	22.2	22.3	22.1	22.0	22.1	NA	22.3	21.9
7/10/2017	3	22.1	22.3	22.0	21.9	22.0	NA	22.2	21.9
7/10/2017	4	22.1	22.2	21.9	21.9	21.9	NA	22.2	21.9
7/10/2017	5	22.0	22.2	21.9	21.8	21.9	NA	22.1	21.9
7/10/2017	6	22.0	22.1	21.8	21.8	21.8	NA	22.1	21.9
7/10/2017	7	21.9	22.0	21.8	21.7	21.8	NA	22.1	21.9
7/10/2017	8	21.8	21.9	21.8	21.7	21.8	NA	22.1	21.8
7/10/2017	9	21.7	21.8	22.0	21.8	21.8	NA	22.1	21.7
7/10/2017	10	21.6	21.8	22.1	22.0	22.0	NA	22.1	21.7
7/10/2017	11	21.6	21.8	22.3	22.2	22.2	NA	22.1	21.7
7/10/2017	12	21.7	21.9	22.4	22.4	22.4	NA	22.1	21.7
7/10/2017	13	21.7	21.9	22.3	22.4	22.5	NA	22.1	21.8
7/10/2017	14	21.8	22.1	22.6	22.4	22.5	NA	22.1	21.9
7/10/2017	15	22.0	22.2	22.8	22.7	22.7	NA	22.1	22.0
7/10/2017	16	22.1	22.3	22.7	22.7	22.8	NA	22.1	22.1
7/10/2017	17	22.2	22.4	22.6	22.6	22.7	NA	22.2	22.2
7/10/2017	18	22.2	22.4	22.4	22.4	22.5	NA	22.2	22.3
7/10/2017	19	22.3	22.4	22.4	22.3	22.3	NA	22.2	22.3
7/10/2017	20	22.3	22.4	22.2	22.1	22.3	NA	22.3	22.3
7/10/2017	21	22.2	22.3	22.1	22.0	22.1	NA	22.3	22.3
7/10/2017	22	22.2	22.3	22.0	22.0	22.0	NA	22.3	22.2
7/10/2017	23	22.1	22.2	21.9	21.8	21.9	NA	22.3	22.1
7/10/2017	24	22.0	22.1	21.8	21.7	21.8	NA	22.2	22.0
7/11/2017	1	22.0	22.1	21.7	21.6	21.7	NA	22.1	22.0
7/11/2017	2	21.9	22.0	21.6	21.5	21.6	NA	22.0	21.9
7/11/2017	3	21.8	21.9	21.5	21.4	21.5	NA	21.9	21.8
7/11/2017	4	21.7	21.8	21.4	21.3	21.4	NA	21.8	21.7
7/11/2017	5	21.6	21.7	21.3	21.2	21.2	NA	21.7	21.6
7/11/2017	6	21.5	21.6	21.2	21.1	21.2	NA	21.6	21.5
7/11/2017	7	21.5	21.6	21.2	21.1	21.2	NA	21.6	21.4
7/11/2017	8	21.4	21.5	21.3	21.1	21.2	NA	21.6	21.4
7/11/2017	9	21.4	21.5	21.5	21.3	21.3	NA	21.5	21.4
7/11/2017	10	21.4	21.5	21.7	21.5	21.5	NA	21.5	21.4
7/11/2017	11	21.4	21.5	21.9	21.8	21.8	NA	21.5	21.4
7/11/2017	12	21.4	21.6	22.2	22.1	22.0	NA	21.6	21.5
7/11/2017	13	21.5	21.7	22.4	22.3	22.3	NA	21.7	21.6
7/11/2017	14	21.6	21.8	22.5	22.5	22.5	NA	21.8	21.7
7/11/2017	15	21.7	21.9	22.6	22.5	22.6	NA	21.9	21.7
7/11/2017	16	21.8	22.1	22.6	22.6	22.6	NA	22.0	21.8
7/11/2017	17	22.0	22.2	22.6	22.5	22.6	NA	22.1	21.9
7/11/2017	18	22.0	22.2	22.5	22.4	22.5	NA	22.1	22.0
7/11/2017	19	22.0	22.2	22.3	22.3	22.4	NA	22.1	22.0
7/11/2017	20	22.1	22.2	22.1	22.1	22.3	NA	22.0	22.0
7/11/2017	21	22.0	22.1	21.9	21.9	22.0	NA	21.9	22.0
7/11/2017	22	21.9	22.0	21.8	21.7	21.8	NA	21.9	21.9
7/11/2017	23	21.8	21.9	21.7	21.7	21.8	NA	21.8	21.8

7/11/2017	24	21.7	21.8	21.6	21.6	21.7	NA	21.7	21.7
7/12/2017	1	21.6	21.7	21.5	21.4	21.5	NA	21.6	21.6
7/12/2017	2	21.5	21.6	21.4	21.3	21.4	NA	21.6	21.4
7/12/2017	3	21.4	21.4	21.3	21.2	21.3	NA	21.4	21.3
7/12/2017	4	21.2	21.2	21.1	21.1	21.2	NA	21.3	21.2
7/12/2017	5	20.8	20.7	21.0	20.9	21.1	NA	21.1	21.0
7/12/2017	6	20.2	20.1	20.6	20.7	20.9	NA	21.0	20.7
7/12/2017	7	19.9	20.1	20.2	20.3	20.5	NA	20.8	20.6
7/12/2017	8	19.8	19.6	20.1	20.1	20.2	NA	20.7	20.6
7/12/2017	9	19.7	19.7	20.2	20.2	20.2	NA	20.5	20.2
7/12/2017	10	19.5	19.2	20.6	20.2	20.3	NA	20.4	20.4
7/12/2017	11	19.5	19.6	20.4	20.7	20.6	NA	20.5	20.3
7/12/2017	12	19.7	20.0	20.8	20.6	20.7	NA	20.6	20.6
7/12/2017	13	19.9	20.0	21.2	20.9	20.9	NA	20.8	20.9
7/12/2017	14	20.4	20.7	21.2	21.5	21.4	NA	21.0	21.0
7/12/2017	15	20.4	21.0	21.8	21.4	21.4	NA	21.1	21.0
7/12/2017	16	20.2	20.2	21.7	21.7	21.8	NA	21.1	21.2
7/12/2017	17	20.5	20.3	21.1	21.6	21.7	NA	21.1	21.1
7/12/2017	18	19.9	19.7	21.1	21.2	21.3	NA	21.0	21.0
7/12/2017	19	19.9	20.4	20.6	20.7	21.0	NA	21.0	20.7
7/12/2017	20	19.7	19.5	20.2	20.2	20.5	NA	20.9	20.8
7/12/2017	21	19.9	19.2	19.7	20.2	20.3	NA	20.7	20.7
7/12/2017	22	19.8	19.5	19.7	19.9	19.9	NA	20.6	20.6
7/12/2017	23	19.3	19.5	19.9	19.5	19.7	NA	20.4	20.2
7/12/2017	24	19.6	20.2	19.4	19.5	19.7	NA	20.4	20.3
7/13/2017	1	19.3	19.6	19.5	19.4	19.5	NA	20.6	20.5
7/13/2017	2	20.0	19.9	19.2	19.5	19.5	NA	20.9	20.9
7/13/2017	3	20.5	21.0	19.8	19.5	19.4	NA	21.0	21.0
7/13/2017	4	20.9	20.8	20.4	19.8	19.7	NA	21.1	21.4
7/13/2017	5	20.7	20.8	20.5	20.4	20.2	NA	21.2	21.2
7/13/2017	6	20.6	20.7	20.5	20.3	20.4	NA	21.2	21.2
7/13/2017	7	20.5	20.6	20.5	20.3	20.4	NA	21.2	21.1
7/13/2017	8	20.5	20.7	20.6	20.5	20.4	NA	21.2	20.9
7/13/2017	9	20.1	20.2	20.8	20.6	20.6	NA	21.1	20.9
7/13/2017	10	20.0	20.2	20.8	20.8	20.8	NA	21.1	20.8
7/13/2017	11	19.9	20.3	21.2	20.8	20.9	NA	21.0	20.7
7/13/2017	12	19.8	19.7	21.3	21.2	21.2	NA	21.0	21.0
7/13/2017	13	20.0	20.8	21.7	21.4	21.3	NA	21.2	21.0
7/13/2017	14	20.2	20.5	21.6	21.8	21.7	NA	21.5	21.3
7/13/2017	15	20.4	19.9	22.0	21.8	21.9	NA	21.6	21.6
7/13/2017	16	20.3	20.7	21.9	22.0	22.0	NA	21.7	21.6
7/13/2017	17	20.6	20.8	21.4	21.8	21.9	NA	21.7	21.8
7/13/2017	18	20.8	21.3	21.3	21.3	21.6	NA	21.8	21.8
7/13/2017	19	21.2	21.5	21.0	21.1	21.3	NA	21.8	21.9
7/13/2017	20	21.5	21.7	21.0	20.8	21.0	NA	21.9	21.9
7/13/2017	21	21.7	21.9	20.9	20.7	20.8	NA	22.0	21.9
7/13/2017	22	21.8	21.9	21.0	20.6	20.7	NA	22.0	21.8
7/13/2017	23	21.8	21.9	21.1	20.7	20.8	NA	21.9	21.8
7/13/2017	24	21.8	21.9	21.1	20.8	20.8	NA	21.9	21.8
7/14/2017	1	21.8	21.9	21.0	20.7	20.8	NA	21.8	21.7
7/14/2017	2	21.7	21.8	21.0	20.7	20.8	NA	21.8	21.7
7/14/2017	3	21.6	21.7	21.0	20.7	20.8	NA	21.7	21.6
7/14/2017	4	21.6	21.7	20.9	20.7	20.7	NA	21.7	21.6
7/14/2017	5	21.5	21.6	20.8	20.6	20.7	NA	21.6	21.5

7/14/2017	6	21.5	21.5	20.7	20.5	20.6	NA	21.5	21.5
7/14/2017	7	21.4	21.5	20.8	20.4	20.5	NA	21.5	21.4
7/14/2017	8	21.2	21.2	21.0	20.5	20.5	NA	21.4	21.2
7/14/2017	9	20.9	21.1	21.3	20.7	20.7	NA	21.4	21.1
7/14/2017	10	20.8	20.8	21.6	21.1	21.0	NA	21.3	21.1
7/14/2017	11	20.7	20.8	22.0	21.6	21.5	NA	21.3	21.1
7/14/2017	12	20.7	20.8	22.3	22.1	22.0	NA	21.3	21.2
7/14/2017	13	20.7	21.0	22.4	22.4	22.4	NA	21.3	21.2
7/14/2017	14	20.9	21.0	22.5	22.7	22.6	NA	21.4	21.4
7/14/2017	15	20.8	20.9	22.6	22.7	22.8	NA	21.4	21.4
7/14/2017	16	20.7	20.9	22.5	22.8	22.8	NA	21.5	21.4
7/14/2017	17	20.7	21.1	22.2	22.6	22.8	NA	21.6	21.4
7/14/2017	18	20.8	20.7	21.8	22.2	22.5	NA	21.6	21.5
7/14/2017	19	20.9	21.1	21.6	21.8	22.0	NA	21.7	21.6
7/14/2017	20	20.9	21.1	21.1	21.5	21.7	NA	21.8	21.6
7/14/2017	21	20.9	21.0	20.9	21.1	21.3	NA	21.7	21.6
7/14/2017	22	21.0	21.3	20.7	20.8	21.0	NA	21.7	21.7
7/14/2017	23	20.9	21.0	20.6	20.6	20.7	NA	21.6	21.7
7/14/2017	24	21.1	21.4	20.7	20.5	20.6	NA	21.6	21.4
7/15/2017	1	20.9	20.9	20.5	20.5	20.6	NA	21.5	21.5
7/15/2017	2	20.9	21.0	20.7	20.4	20.5	NA	21.5	21.4
7/15/2017	3	20.9	21.0	20.5	20.5	20.5	NA	21.4	21.3
7/15/2017	4	20.8	20.8	20.5	20.3	20.4	NA	21.4	21.3
7/15/2017	5	20.8	20.8	20.5	20.3	20.4	NA	21.3	21.2
7/15/2017	6	20.7	20.8	20.4	20.3	20.4	NA	21.3	21.1
7/15/2017	7	20.6	20.7	20.4	20.2	20.3	NA	21.3	21.1
7/15/2017	8	20.6	20.7	20.6	20.2	20.3	NA	21.3	21.0
7/15/2017	9	20.6	20.8	20.9	20.4	20.4	NA	21.2	21.0
7/15/2017	10	20.5	20.7	21.4	20.8	20.7	NA	21.2	21.0
7/15/2017	11	20.6	20.7	21.8	21.4	21.2	NA	21.2	21.1
7/15/2017	12	20.7	20.8	22.2	22.0	21.8	NA	21.3	21.3
7/15/2017	13	20.8	21.2	22.5	22.3	22.3	NA	21.4	21.4
7/15/2017	14	20.9	21.1	22.5	22.6	22.6	NA	21.5	21.6
7/15/2017	15	21.0	21.3	22.6	22.7	22.7	NA	21.7	21.6
7/15/2017	16	21.1	21.5	22.4	22.7	22.8	NA	21.8	21.9
7/15/2017	17	21.6	21.9	22.3	22.4	22.6	NA	21.9	22.0
7/15/2017	18	21.9	22.1	22.1	22.1	22.3	NA	22.1	22.0
7/15/2017	19	22.0	22.2	21.8	21.8	22.0	NA	22.2	22.1
7/15/2017	20	22.1	22.2	21.5	21.6	21.7	NA	22.2	22.1
7/15/2017	21	22.0	22.1	21.2	21.2	21.4	NA	22.1	22.0
7/15/2017	22	22.0	22.0	21.1	20.8	21.0	NA	22.0	21.9
7/15/2017	23	21.8	21.9	21.1	20.7	20.8	NA	21.9	21.8
7/15/2017	24	21.7	21.7	21.1	20.7	20.8	NA	21.9	21.7
7/16/2017	1	21.6	21.7	21.0	20.7	20.8	NA	21.8	21.6
7/16/2017	2	21.6	21.7	20.9	20.6	20.7	NA	21.7	21.5
7/16/2017	3	21.5	21.6	20.7	20.5	20.6	NA	21.6	21.5
7/16/2017	4	21.5	21.5	20.7	20.4	20.5	NA	21.6	21.4
7/16/2017	5	21.4	21.5	20.7	20.4	20.5	NA	21.6	21.4
7/16/2017	6	21.4	21.4	20.6	20.4	20.4	NA	21.5	21.3
7/16/2017	7	21.3	21.4	20.7	20.3	20.4	NA	21.5	21.2
7/16/2017	8	21.3	21.4	20.8	20.3	20.4	NA	21.5	21.2
7/16/2017	9	21.2	21.4	21.1	20.4	20.4	NA	21.5	21.2
7/16/2017	10	21.2	21.4	21.5	20.8	20.7	NA	21.5	21.2
7/16/2017	11	21.2	21.4	21.9	21.4	21.2	NA	21.5	21.2

7/16/2017	12	21.2	21.4	22.3	21.9	21.7	NA	21.5	21.3
7/16/2017	13	21.3	21.4	22.5	22.3	22.2	NA	21.5	21.3
7/16/2017	14	21.3	21.5	22.7	22.6	22.5	NA	21.5	21.4
7/16/2017	15	21.3	21.5	22.7	22.7	22.7	NA	21.6	21.4
7/16/2017	16	21.4	21.6	22.6	22.6	22.7	NA	21.6	21.5
7/16/2017	17	21.4	21.6	22.3	22.4	22.6	NA	21.6	21.5
7/16/2017	18	21.5	21.6	21.9	22.1	22.3	NA	21.6	21.5
7/16/2017	19	21.5	21.6	21.5	21.7	21.9	NA	21.7	21.5
7/16/2017	20	21.5	21.7	21.2	21.3	21.6	NA	21.6	21.5
7/16/2017	21	21.5	21.6	20.9	21.0	21.2	NA	21.6	21.5
7/16/2017	22	21.5	21.6	20.7	20.7	20.9	NA	21.6	21.5
7/16/2017	23	21.5	21.5	20.6	20.4	20.6	NA	21.5	21.4
7/16/2017	24	21.4	21.5	20.5	20.3	20.4	NA	21.5	21.4
7/17/2017	1	21.4	21.5	20.4	20.2	20.3	NA	21.5	21.4
7/17/2017	2	21.3	21.4	20.4	20.1	20.2	NA	21.4	21.3
7/17/2017	3	21.3	21.4	20.3	20.1	20.1	NA	21.4	21.3
7/17/2017	4	21.3	21.3	20.3	20.0	20.1	NA	21.4	21.2
7/17/2017	5	21.2	21.3	20.3	20.0	20.1	NA	21.3	21.2
7/17/2017	6	21.2	21.2	20.3	20.0	20.0	NA	21.3	21.2
7/17/2017	7	21.1	21.2	20.4	20.0	20.0	NA	21.3	21.1
7/17/2017	8	21.1	21.2	20.6	20.1	20.1	NA	21.2	21.1
7/17/2017	9	21.0	21.2	20.9	20.3	20.2	NA	21.2	21.0
7/17/2017	10	21.0	21.1	21.4	20.7	20.6	NA	21.2	21.0
7/17/2017	11	21.0	21.1	21.9	21.3	21.1	NA	21.2	21.0
7/17/2017	12	21.0	21.2	22.3	22.0	21.7	NA	21.2	21.1
7/17/2017	13	21.1	21.4	22.4	22.3	22.2	NA	21.3	21.2
7/17/2017	14	21.2	21.5	22.6	22.4	22.4	NA	21.4	21.3
7/17/2017	15	21.4	21.6	22.7	22.6	22.6	NA	21.4	21.4
7/17/2017	16	21.5	21.7	22.5	22.6	22.7	NA	21.5	21.5
7/17/2017	17	21.6	21.7	22.4	22.6	22.7	NA	21.6	21.5
7/17/2017	18	21.6	21.7	22.2	22.3	22.5	NA	21.7	21.6
7/17/2017	19	21.5	21.7	22.0	22.1	22.2	NA	21.7	21.6
7/17/2017	20	21.6	21.7	21.6	21.8	22.0	NA	21.7	21.6
7/17/2017	21	21.6	21.7	21.2	21.6	21.7	NA	21.7	21.7
7/17/2017	22	21.6	21.7	20.9	21.2	21.4	NA	21.7	21.7
7/17/2017	23	21.6	21.7	20.7	20.8	21.0	NA	21.6	21.6
7/17/2017	24	21.6	21.6	20.6	20.5	20.7	NA	21.6	21.5
7/18/2017	1	21.6	21.6	20.5	20.3	20.5	NA	21.6	21.6
7/18/2017	2	21.5	21.5	20.4	20.2	20.3	NA	21.5	21.5
7/18/2017	3	21.4	21.4	20.3	20.1	20.2	NA	21.5	21.4
7/18/2017	4	21.3	21.2	20.2	20.0	20.1	NA	21.4	21.3
7/18/2017	5	21.2	21.2	20.1	19.9	20.0	NA	21.4	21.2
7/18/2017	6	21.1	21.1	20.0	19.7	19.9	NA	21.3	21.1
7/18/2017	7	21.0	21.1	20.0	19.7	19.8	NA	21.2	21.0
7/18/2017	8	21.0	21.0	20.3	19.7	19.7	NA	21.2	20.9
7/18/2017	9	20.9	21.0	20.7	19.8	19.8	NA	21.1	20.8
7/18/2017	10	20.9	21.1	21.2	20.2	20.1	NA	21.0	20.8
7/18/2017	11	20.8	21.0	21.9	20.8	20.6	NA	21.0	20.9
7/18/2017	12	20.8	21.0	22.6	21.5	21.2	NA	21.0	20.9
7/18/2017	13	20.8	21.2	23.1	22.2	21.9	NA	21.0	21.0
7/18/2017	14	20.8	21.2	23.5	22.8	22.6	NA	21.1	21.0
7/18/2017	15	20.7	21.0	23.7	23.3	23.0	NA	21.1	21.1
7/18/2017	16	20.5	20.8	23.7	23.5	23.4	NA	21.1	21.1
7/18/2017	17	20.5	20.7	23.6	23.6	23.6	NA	21.2	21.1

7/18/2017	18	20.6	20.9	23.3	23.7	23.7	NA	21.2	21.1
7/18/2017	19	20.5	20.6	22.6	23.5	23.6	NA	21.2	21.1
7/18/2017	20	20.4	20.4	21.9	23.1	23.3	NA	21.2	21.0
7/18/2017	21	20.3	20.5	21.2	22.8	23.0	NA	21.2	20.9
7/18/2017	22	20.0	20.1	20.7	22.3	22.7	NA	21.1	21.0
7/18/2017	23	19.7	20.0	20.2	21.7	22.2	NA	21.1	20.8
7/18/2017	24	19.8	20.1	19.9	21.1	21.6	NA	21.0	20.8
7/19/2017	1	19.6	19.9	19.7	20.7	21.0	NA	21.0	20.8
7/19/2017	2	19.5	19.7	19.4	20.2	20.6	NA	20.9	20.8
7/19/2017	3	19.5	19.6	19.1	19.9	20.2	NA	20.9	20.7
7/19/2017	4	19.7	20.2	18.9	19.5	19.9	NA	20.9	20.8
7/19/2017	5	19.9	20.2	18.7	19.2	19.5	NA	20.9	20.9
7/19/2017	6	20.1	20.3	18.6	18.9	19.2	NA	20.9	20.9
7/19/2017	7	20.3	20.7	18.6	18.7	19.0	NA	21.0	20.9
7/19/2017	8	20.7	20.9	19.0	18.7	18.9	NA	21.0	20.8
7/19/2017	9	20.8	21.1	19.6	18.7	18.8	NA	21.1	21.0
7/19/2017	10	20.8	21.2	20.5	18.9	19.0	NA	21.1	21.0
7/19/2017	11	21.0	21.2	21.4	19.4	19.3	NA	21.2	21.1
7/19/2017	12	21.0	21.3	22.4	20.2	19.9	NA	21.3	21.2
7/19/2017	13	21.1	21.6	23.3	21.2	20.7	NA	21.4	21.2
7/19/2017	14	21.2	21.6	24.0	22.1	21.6	NA	21.5	21.4
7/19/2017	15	21.3	21.7	24.3	23.0	22.4	NA	21.6	21.6
7/19/2017	16	21.3	21.7	24.4	23.6	23.2	NA	21.7	21.7
7/19/2017	17	21.3	21.6	24.2	24.0	23.8	NA	21.7	21.7
7/19/2017	18	21.3	21.6	23.8	24.2	24.1	NA	21.7	21.7
7/19/2017	19	21.4	21.6	23.2	24.0	24.0	NA	21.7	21.8
7/19/2017	20	21.4	21.5	22.4	23.6	23.7	NA	21.7	21.8
7/19/2017	21	21.4	21.5	21.7	23.2	23.4	NA	21.7	21.7
7/19/2017	22	21.4	21.5	21.1	22.6	22.9	NA	21.7	21.7
7/19/2017	23	21.2	21.3	20.7	22.1	22.4	NA	21.7	21.6
7/19/2017	24	21.0	21.0	20.4	21.5	21.9	NA	21.7	21.5
7/20/2017	1	20.9	20.8	20.2	21.0	21.3	NA	21.6	21.3
7/20/2017	2	20.7	20.8	20.0	20.5	20.8	NA	21.6	21.3
7/20/2017	3	20.5	20.5	19.8	20.2	20.5	NA	21.5	21.2
7/20/2017	4	20.3	20.4	19.6	20.0	20.2	NA	21.5	21.2
7/20/2017	5	20.3	20.4	19.4	19.7	20.0	NA	21.4	21.2
7/20/2017	6	20.3	20.4	19.3	19.5	19.7	NA	21.4	21.1
7/20/2017	7	20.8	21.1	19.2	19.3	19.5	NA	21.4	21.3
7/20/2017	8	21.2	21.4	19.5	19.3	19.5	NA	21.4	21.3
7/20/2017	9	21.1	21.4	20.0	19.3	19.4	NA	21.4	21.2
7/20/2017	10	21.1	21.4	20.6	19.4	19.5	NA	21.4	21.2
7/20/2017	11	21.1	21.4	21.5	19.7	19.6	NA	21.5	21.2
7/20/2017	12	21.2	21.5	22.2	20.2	20.1	NA	21.5	21.3
7/20/2017	13	21.3	21.6	22.6	20.8	20.6	NA	21.6	21.3
7/20/2017	14	21.4	21.7	22.6	21.3	21.3	NA	21.6	21.4
7/20/2017	15	21.4	21.8	23.0	21.9	21.6	NA	21.7	21.5
7/20/2017	16	21.5	21.8	23.1	22.2	21.8	NA	21.7	21.6
7/20/2017	17	21.6	21.8	23.0	22.4	21.8	NA	21.6	21.6
7/20/2017	18	21.6	21.8	22.7	22.5	21.8	NA	21.6	21.6
7/20/2017	19	21.5	21.7	22.0	22.3	21.8	NA	21.6	21.6
7/20/2017	20	21.5	21.6	21.3	22.0	21.7	NA	21.6	21.5
7/20/2017	21	21.5	21.5	20.8	21.7	21.6	NA	21.6	21.5
7/20/2017	22	21.4	21.5	20.3	21.2	21.5	NA	21.5	21.5
7/20/2017	23	21.4	21.4	20.0	20.8	21.4	NA	21.5	21.5

7/20/2017	24	21.4	21.4	19.8	20.4	21.2	NA	21.5	21.4
7/21/2017	1	21.3	21.4	19.7	20.0	21.1	NA	21.4	21.4
7/21/2017	2	21.3	21.3	19.6	19.7	21.0	NA	21.4	21.3
7/21/2017	3	21.3	21.3	19.5	19.4	20.9	NA	21.3	21.2
7/21/2017	4	21.2	21.2	19.5	19.3	20.8	NA	21.3	21.2
7/21/2017	5	21.2	21.2	19.3	19.1	20.7	NA	21.2	21.2
7/21/2017	6	21.1	21.1	19.2	19.0	20.7	NA	21.2	21.1
7/21/2017	7	21.0	21.1	19.2	18.9	20.6	NA	21.1	21.0
7/21/2017	8	21.0	21.2	19.6	19.0	20.6	NA	21.1	21.0
7/21/2017	9	20.9	21.2	20.1	19.1	20.6	NA	21.2	21.0
7/21/2017	10	20.9	21.2	20.8	19.2	20.7	NA	21.2	21.0
7/21/2017	11	20.9	21.2	21.6	19.6	20.1	NA	21.3	21.1
7/21/2017	12	21.0	21.3	22.7	20.4	20.3	NA	21.4	21.1
7/21/2017	13	21.1	21.5	23.2	21.3	21.0	NA	21.4	21.2
7/21/2017	14	21.3	21.5	23.7	22.1	21.6	NA	21.5	21.3
7/21/2017	15	21.4	21.7	24.0	22.9	21.8	NA	21.5	21.4
7/21/2017	16	21.5	21.8	23.7	23.3	21.9	NA	21.6	21.5
7/21/2017	17	21.6	21.8	23.6	23.6	22.1	NA	21.6	21.6
7/21/2017	18	21.6	21.7	23.0	23.6	22.1	NA	21.6	21.6
7/21/2017	19	21.6	21.7	22.5	23.4	22.1	NA	21.7	21.6
7/21/2017	20	21.6	21.7	21.8	23.0	22.0	NA	21.7	21.6
7/21/2017	21	21.6	21.7	21.2	22.6	21.9	NA	21.7	21.7
7/21/2017	22	21.6	21.7	20.8	22.1	21.8	NA	21.7	21.7
7/21/2017	23	21.6	21.7	20.5	21.5	21.7	NA	21.7	21.6
7/21/2017	24	21.6	21.6	20.4	21.0	21.6	NA	21.6	21.6
7/22/2017	1	21.5	21.6	20.3	20.7	21.4	NA	21.6	21.5
7/22/2017	2	21.5	21.5	20.2	20.4	21.3	NA	21.5	21.4
7/22/2017	3	21.4	21.5	20.1	20.2	21.2	NA	21.5	21.4
7/22/2017	4	21.4	21.4	20.0	20.0	21.1	NA	21.5	21.3
7/22/2017	5	21.3	21.4	19.9	19.8	21.0	NA	21.4	21.3
7/22/2017	6	21.3	21.3	19.9	19.7	21.0	NA	21.4	21.2
7/22/2017	7	21.2	21.3	19.9	19.7	20.9	NA	21.4	21.2
7/22/2017	8	21.1	21.4	20.3	19.7	20.9	NA	21.4	21.2
7/22/2017	9	21.0	21.3	20.8	19.9	20.9	NA	21.4	21.1
7/22/2017	10	20.8	21.1	21.4	20.1	20.9	NA	21.4	21.1
7/22/2017	11	20.8	21.1	22.3	20.5	21.0	NA	21.4	21.1
7/22/2017	12	20.7	21.1	23.2	21.2	21.2	NA	21.4	21.2
7/22/2017	13	20.7	21.1	24.0	22.1	21.5	NA	21.4	21.2
7/22/2017	14	20.7	21.2	24.5	23.0	21.7	NA	21.4	21.2
7/22/2017	15	20.9	21.4	24.9	23.8	22.0	NA	21.5	21.3
7/22/2017	16	20.9	21.2	24.9	24.4	22.2	NA	21.6	21.6
7/22/2017	17	20.8	21.2	24.6	24.7	22.3	NA	21.7	21.5
7/22/2017	18	20.8	21.2	24.2	24.9	22.4	NA	21.8	21.6
7/22/2017	19	21.0	21.3	23.5	24.7	22.4	NA	21.9	21.8
7/22/2017	20	21.1	21.4	22.7	24.2	22.4	NA	21.9	21.8
7/22/2017	21	21.2	21.5	21.9	23.8	22.4	NA	21.9	21.9
7/22/2017	22	21.4	21.6	21.3	23.2	22.3	NA	21.9	21.9
7/22/2017	23	21.3	21.5	21.0	22.6	22.2	NA	21.8	21.8
7/22/2017	24	21.0	21.2	20.7	22.0	22.0	NA	21.8	21.8
7/23/2017	1	20.8	21.0	20.6	21.4	21.9	NA	21.8	21.7
7/23/2017	2	20.8	21.0	20.6	21.0	21.7	NA	21.8	21.7
7/23/2017	3	20.9	21.1	20.4	20.8	21.6	NA	21.8	21.7
7/23/2017	4	21.0	21.0	20.2	20.6	21.5	NA	21.8	21.7
7/23/2017	5	20.7	20.9	20.1	20.4	21.4	NA	21.7	21.5

7/23/2017	6	20.6	20.7	20.0	20.3	21.2	NA	21.7	21.5
7/23/2017	7	20.5	20.7	20.0	20.2	21.2	NA	21.7	21.4
7/23/2017	8	20.5	20.9	20.4	20.2	21.1	NA	21.6	21.3
7/23/2017	9	20.6	21.2	20.8	20.2	21.2	NA	21.6	21.3
7/23/2017	10	20.5	20.9	21.5	20.4	21.3	NA	21.6	21.4
7/23/2017	11	20.5	21.0	22.3	20.8	21.4	NA	21.6	21.5
7/23/2017	12	20.7	21.1	23.2	21.5	21.6	NA	21.7	21.6
7/23/2017	13	20.6	21.1	24.0	22.3	21.9	NA	21.8	21.7
7/23/2017	14	20.7	21.2	24.5	23.1	22.1	NA	22.0	21.8
7/23/2017	15	21.0	21.5	24.7	23.8	22.3	NA	22.1	21.9
7/23/2017	16	21.4	21.8	24.7	24.3	22.6	NA	22.2	22.2
7/23/2017	17	21.1	21.5	24.3	24.5	22.8	NA	22.4	22.3
7/23/2017	18	21.3	21.7	23.8	24.5	22.8	NA	22.5	22.3
7/23/2017	19	21.7	22.0	23.1	24.2	22.8	NA	22.5	22.4
7/23/2017	20	21.9	22.0	22.2	23.8	22.8	NA	22.4	22.5
7/23/2017	21	22.0	22.1	21.3	23.3	22.8	NA	22.4	22.4
7/23/2017	22	22.2	22.3	20.7	22.7	22.6	NA	22.4	22.4
7/23/2017	23	22.2	22.3	20.4	22.0	22.4	NA	22.4	22.4
7/23/2017	24	22.3	22.4	20.2	21.2	22.3	NA	22.4	22.4
7/24/2017	1	22.2	22.3	20.2	20.6	22.0	NA	22.4	22.3
7/24/2017	2	22.2	22.2	20.2	20.2	21.8	NA	22.4	22.3
7/24/2017	3	22.1	22.2	20.1	20.0	21.7	NA	22.3	22.2
7/24/2017	4	22.1	22.2	20.1	19.8	21.6	NA	22.3	22.1
7/24/2017	5	22.1	22.1	20.0	19.7	21.5	NA	22.3	22.1
7/24/2017	6	22.0	22.1	19.9	19.6	21.4	NA	22.2	22.0
7/24/2017	7	22.0	22.1	19.9	19.5	21.4	NA	22.2	22.0
7/24/2017	8	22.0	22.2	20.3	19.6	21.4	NA	22.2	22.0
7/24/2017	9	22.0	22.2	20.8	19.7	21.4	NA	22.1	22.0
7/24/2017	10	22.0	22.3	21.5	19.9	20.9	NA	22.1	22.0
7/24/2017	11	22.0	22.3	22.3	20.3	20.5	NA	22.2	22.1
7/24/2017	12	22.0	22.3	23.2	21.0	20.9	NA	22.3	22.1
7/24/2017	13	22.0	22.4	23.9	21.9	22.1	NA	22.3	22.2
7/24/2017	14	22.1	22.4	24.5	22.8	22.4	NA	22.4	22.3
7/24/2017	15	22.1	22.5	24.8	23.4	22.6	NA	22.5	22.3
7/24/2017	16	22.2	22.5	24.9	24.0	22.8	NA	22.5	22.4
7/24/2017	17	22.3	22.5	24.8	24.4	22.9	NA	22.5	22.5
7/24/2017	18	22.3	22.5	24.3	24.5	23.0	NA	22.5	22.5
7/24/2017	19	22.3	22.5	23.5	24.4	22.9	NA	22.5	22.5
7/24/2017	20	22.3	22.4	22.8	24.0	22.9	NA	22.5	22.5
7/24/2017	21	22.3	22.4	22.1	23.6	22.8	NA	22.5	22.4
7/24/2017	22	22.3	22.4	21.6	23.0	22.7	NA	22.5	22.4
7/24/2017	23	22.3	22.3	21.2	22.5	22.5	NA	22.5	22.3
7/24/2017	24	22.2	22.3	20.9	21.9	22.3	NA	22.4	22.3
7/25/2017	1	22.2	22.2	20.7	21.4	22.1	NA	22.3	22.2
7/25/2017	2	22.1	22.2	20.6	21.0	21.9	NA	22.3	22.2
7/25/2017	3	22.1	22.1	20.5	20.7	21.8	NA	22.2	22.1
7/25/2017	4	22.0	22.1	20.4	20.5	21.7	NA	22.1	22.0
7/25/2017	5	22.0	22.0	20.3	20.2	21.6	NA	22.0	22.0
7/25/2017	6	21.9	21.9	20.2	20.1	21.5	NA	22.0	21.9
7/25/2017	7	21.8	21.9	20.1	20.0	21.4	NA	21.9	21.8
7/25/2017	8	21.8	21.9	20.4	20.0	21.4	NA	21.9	21.7
7/25/2017	9	21.7	21.8	20.9	20.1	21.4	NA	21.9	21.7
7/25/2017	10	21.6	21.8	21.6	20.2	21.4	NA	21.9	21.7
7/25/2017	11	21.6	21.9	22.4	20.5	21.5	NA	21.9	21.7

7/25/2017	12	21.6	21.8	23.3	21.2	21.7	NA	21.9	21.7
7/25/2017	13	21.6	21.8	24.0	22.1	21.8	NA	21.9	21.7
7/25/2017	14	21.4	21.7	24.5	22.9	22.2	NA	21.9	21.8
7/25/2017	15	21.5	21.7	24.8	23.7	NA	NA	22.0	21.9
7/25/2017	16	21.4	21.7	25.0	24.3	22.6	23.2	22.0	22.1
7/25/2017	17	21.5	21.7	24.8	24.6	22.8	23.5	22.1	22.1
7/25/2017	18	21.6	21.8	24.3	24.8	22.9	23.5	22.1	22.3
7/25/2017	19	21.7	21.8	23.6	24.7	22.9	23.4	22.2	22.3
7/25/2017	20	21.7	21.9	22.8	24.3	22.8	23.2	22.3	22.3
7/25/2017	21	21.6	21.7	22.1	24.0	22.8	23.1	22.3	22.2
7/25/2017	22	21.6	21.6	21.5	23.4	22.6	22.8	22.2	22.2
7/25/2017	23	21.5	21.4	21.2	22.8	22.4	22.5	22.0	22.1
7/25/2017	24	21.4	21.4	20.9	22.2	22.2	22.2	21.9	21.9
7/26/2017	1	21.3	21.4	20.8	21.7	21.9	21.9	21.8	21.8
7/26/2017	2	21.2	21.2	20.6	21.3	21.7	21.6	21.6	21.7
7/26/2017	3	21.1	21.1	20.5	21.0	21.6	21.4	21.5	21.6
7/26/2017	4	20.9	20.8	20.3	20.8	21.4	21.2	21.3	21.3
7/26/2017	5	20.5	20.4	20.2	20.6	21.1	21.0	21.2	21.1
7/26/2017	6	20.2	20.1	20.0	20.4	20.9	20.8	21.1	21.0
7/26/2017	7	20.1	20.2	19.9	20.2	20.8	20.6	21.0	20.9
7/26/2017	8	19.9	20.1	20.1	20.2	20.7	20.6	20.9	20.7
7/26/2017	9	19.8	19.9	20.4	20.2	20.7	20.6	20.8	20.6
7/26/2017	10	19.8	19.8	21.0	20.3	20.5	20.9	20.7	20.7
7/26/2017	11	19.8	19.9	21.8	20.6	20.8	21.3	20.7	20.7
7/26/2017	12	19.7	19.9	22.6	21.2	21.0	21.2	20.8	20.7
7/26/2017	13	19.8	20.0	23.3	22.0	21.2	21.6	21.0	20.8
7/26/2017	14	19.8	19.9	23.8	23.0	21.6	22.2	21.1	21.1
7/26/2017	15	19.8	20.0	24.2	23.6	21.7	22.5	21.2	21.2
7/26/2017	16	19.9	20.1	24.3	24.1	22.0	22.7	21.4	21.4
7/26/2017	17	19.9	20.1	24.0	24.3	22.0	22.9	21.5	21.3
7/26/2017	18	20.0	20.1	23.4	24.5	22.1	22.9	21.7	21.7
7/26/2017	19	20.0	20.1	22.7	24.3	22.2	22.9	21.8	21.7
7/26/2017	20	20.0	20.1	21.9	23.9	22.2	22.7	21.8	21.6
7/26/2017	21	20.0	20.2	21.2	23.4	22.1	22.5	21.9	22.0
7/26/2017	22	20.0	20.3	20.7	22.8	22.3	22.5	22.0	21.9
7/26/2017	23	20.3	20.8	20.2	22.2	22.1	22.2	22.0	22.0
7/26/2017	24	20.5	20.9	19.9	21.5	22.1	22.0	22.0	22.3
7/27/2017	1	20.5	20.5	19.7	21.0	22.0	21.8	22.1	22.1
7/27/2017	2	20.3	20.3	19.5	20.5	21.8	21.5	22.1	22.1
7/27/2017	3	20.1	20.2	19.5	20.1	21.7	21.3	22.1	22.1
7/27/2017	4	20.1	20.2	19.5	19.9	21.6	21.2	22.1	22.0
7/27/2017	5	20.2	20.2	19.4	19.7	21.4	21.0	21.9	21.9
7/27/2017	6	21.1	21.6	19.3	19.6	21.4	20.9	21.9	22.3
7/27/2017	7	22.2	22.3	19.3	19.5	21.6	21.1	22.2	22.5
7/27/2017	8	22.4	22.5	19.7	19.5	21.7	21.2	22.5	22.5
7/27/2017	9	22.5	22.6	20.2	19.6	21.8	21.4	22.6	22.5
7/27/2017	10	22.5	22.8	21.2	19.7	21.9	21.6	22.6	22.7
7/27/2017	11	22.5	22.8	22.4	20.1	22.1	21.9	22.7	22.7
7/27/2017	12	22.6	22.9	23.3	20.7	22.2	22.0	22.8	22.8
7/27/2017	13	22.7	23.0	24.3	21.8	22.6	22.6	22.9	22.9
7/27/2017	14	22.8	23.1	24.9	22.8	22.9	23.1	22.9	23.0
7/27/2017	15	23.0	23.3	25.2	23.6	23.2	23.5	23.0	23.2
7/27/2017	16	23.0	23.2	25.2	24.3	23.5	23.8	23.1	23.2
7/27/2017	17	23.0	23.3	25.0	24.7	23.7	24.0	23.1	23.3



7/27/2017	18	23.2	23.3	24.4	24.8	23.7	24.0	23.2	23.4
7/27/2017	19	23.2	23.3	23.7	24.5	23.7	23.9	23.3	23.3
7/27/2017	20	23.1	23.2	22.8	24.1	23.5	23.6	23.3	23.2
7/27/2017	21	23.1	23.1	22.3	23.7	23.4	23.4	23.3	23.1
7/27/2017	22	23.0	23.1	21.8	23.2	23.2	23.1	23.2	23.1
7/27/2017	23	23.0	23.0	21.5	22.6	23.0	22.9	23.1	23.0
7/27/2017	24	22.9	22.9	21.2	22.1	22.8	22.6	23.0	22.9
7/28/2017	1	22.9	22.8	21.0	21.6	22.7	22.4	23.0	22.9
7/28/2017	2	22.8	22.8	20.7	21.2	22.5	22.2	22.9	22.8
7/28/2017	3	22.7	22.8	20.5	20.9	22.4	22.0	22.8	22.8
7/28/2017	4	22.7	22.7	20.4	20.7	22.3	21.8	22.8	22.7
7/28/2017	5	22.6	22.6	20.3	20.4	22.2	21.7	22.7	22.7
7/28/2017	6	22.6	22.6	20.3	20.2	22.0	21.6	22.7	22.6
7/28/2017	7	22.6	22.6	20.4	20.1	22.0	21.5	22.7	22.6
7/28/2017	8	22.5	22.6	20.7	20.0	22.0	21.5	22.6	22.6
7/28/2017	9	22.5	22.6	21.2	20.2	22.0	21.6	22.6	22.6
7/28/2017	10	22.5	22.6	21.8	20.4	20.9	21.0	22.6	22.6
7/28/2017	11	22.5	22.6	22.8	20.8	22.2	22.1	22.7	22.6
7/28/2017	12	22.5	22.7	23.6	21.5	22.4	22.3	22.7	22.7
7/28/2017	13	22.5	22.8	24.4	22.3	22.6	22.8	22.8	22.7
7/28/2017	14	22.6	22.8	25.0	23.3	22.9	23.2	22.9	22.8
7/28/2017	15	22.6	22.8	25.4	24.0	23.2	23.6	22.9	22.8
7/28/2017	16	22.6	22.8	25.4	24.6	23.4	23.8	23.0	22.9
7/28/2017	17	22.6	22.8	25.2	24.9	23.5	24.0	23.1	23.0
7/28/2017	18	22.7	22.8	24.7	25.1	23.5	24.0	23.1	23.1
7/28/2017	19	22.8	22.9	23.9	24.9	23.5	23.9	23.1	23.1
7/28/2017	20	22.8	22.8	23.0	24.4	23.4	23.7	23.1	23.1
7/28/2017	21	22.8	22.9	22.2	23.9	23.3	23.4	23.1	23.1
7/28/2017	22	22.9	23.0	21.7	23.4	23.3	23.3	23.1	23.1
7/28/2017	23	23.0	23.0	21.3	22.8	23.1	23.1	23.1	23.1
7/28/2017	24	23.0	23.0	21.1	22.2	23.0	22.8	23.1	23.1
7/29/2017	1	23.0	23.0	20.9	21.7	22.8	22.5	23.1	23.0
7/29/2017	2	23.0	23.0	20.8	21.2	22.6	22.3	23.0	22.9
7/29/2017	3	22.9	22.9	20.8	20.9	22.5	22.1	23.0	22.9
7/29/2017	4	22.9	22.8	20.7	20.7	22.4	21.9	22.9	22.9
7/29/2017	5	22.8	22.8	20.7	20.6	22.3	21.8	22.9	22.8
7/29/2017	6	22.7	22.7	20.7	20.4	22.2	21.7	22.8	22.7
7/29/2017	7	22.6	22.6	20.7	20.4	22.2	21.7	22.8	22.7
7/29/2017	8	22.6	22.6	21.0	20.4	22.1	21.7	22.7	22.6
7/29/2017	9	22.5	22.6	21.5	20.6	22.2	21.8	22.7	22.6
7/29/2017	10	22.5	22.7	22.1	20.7	22.2	22.0	22.6	22.6
7/29/2017	11	22.5	22.7	23.0	21.1	22.3	22.2	22.7	22.7
7/29/2017	12	22.6	22.8	23.9	21.8	22.5	22.5	22.8	22.8
7/29/2017	13	22.6	22.9	24.6	22.7	22.8	22.9	22.9	22.8
7/29/2017	14	22.7	23.0	25.2	23.6	23.1	23.4	23.0	22.9
7/29/2017	15	22.8	23.0	25.6	24.3	23.4	23.8	23.1	23.0
7/29/2017	16	22.8	23.0	25.7	24.9	23.5	24.1	23.2	23.1
7/29/2017	17	22.9	23.1	25.4	25.2	23.7	24.2	23.3	23.2
7/29/2017	18	22.9	23.1	24.8	25.3	23.7	24.2	23.3	23.3
7/29/2017	19	23.0	23.1	24.1	25.1	23.7	24.1	23.3	23.3
7/29/2017	20	23.0	23.1	23.3	24.7	23.6	24.0	23.3	23.3
7/29/2017	21	23.0	23.1	22.7	24.3	23.6	23.7	23.3	23.3
7/29/2017	22	23.1	23.2	22.2	23.8	23.5	23.5	23.3	23.3
7/29/2017	23	23.1	23.2	21.9	23.2	23.4	23.4	23.3	23.3

7/29/2017	24	23.1	23.2	21.6	22.6	23.2	23.1	23.2	23.2
7/30/2017	1	23.1	23.2	21.3	22.2	23.0	22.8	23.2	23.2
7/30/2017	2	23.1	23.1	21.1	21.7	22.9	22.6	23.2	23.1
7/30/2017	3	23.0	23.0	20.9	21.4	22.8	22.4	23.1	23.1
7/30/2017	4	23.0	22.9	20.8	21.1	22.6	22.2	23.1	23.0
7/30/2017	5	22.9	22.9	20.8	20.9	22.5	22.1	23.0	22.9
7/30/2017	6	22.9	22.8	20.7	20.7	22.4	21.9	23.0	22.8
7/30/2017	7	22.8	22.8	20.7	20.6	22.3	21.8	22.9	22.8
7/30/2017	8	22.7	22.8	21.1	20.6	22.3	21.9	22.8	22.8
7/30/2017	9	22.7	22.8	21.6	20.7	22.3	22.0	22.8	22.7
7/30/2017	10	22.6	22.8	22.3	20.9	22.4	22.2	22.8	22.8
7/30/2017	11	22.6	22.8	23.2	21.3	22.5	22.4	22.8	22.8
7/30/2017	12	22.6	22.8	24.2	22.0	22.7	22.7	22.9	22.8
7/30/2017	13	22.6	22.8	25.0	22.9	22.9	23.1	23.0	22.9
7/30/2017	14	22.6	22.8	25.5	23.7	23.2	23.4	23.1	23.0
7/30/2017	15	22.6	22.9	25.6	24.4	23.4	23.8	23.2	23.0
7/30/2017	16	22.7	22.9	25.5	24.9	23.6	24.0	23.2	23.1
7/30/2017	17	22.8	23.0	25.1	25.1	23.7	24.2	23.3	23.2
7/30/2017	18	22.8	23.0	24.6	25.2	23.8	24.2	23.4	23.3
7/30/2017	19	23.0	23.2	23.8	24.9	23.7	24.0	23.4	23.3
7/30/2017	20	23.1	23.1	23.0	24.5	23.6	23.8	23.3	23.3
7/30/2017	21	23.2	23.2	22.4	24.1	23.5	23.6	23.3	23.3
7/30/2017	22	23.2	23.3	22.0	23.5	23.4	23.4	23.3	23.3
7/30/2017	23	23.2	23.2	21.7	22.9	23.3	23.2	23.2	23.3
7/30/2017	24	23.2	23.2	21.4	22.4	23.1	22.9	23.2	23.2
7/31/2017	1	23.1	23.1	21.2	21.9	22.9	22.7	23.2	23.1
7/31/2017	2	23.1	23.0	21.0	21.5	22.8	22.5	23.2	23.0
7/31/2017	3	23.0	22.9	20.7	21.2	22.6	22.2	23.1	23.0
7/31/2017	4	22.9	22.9	20.5	20.8	22.4	22.0	23.0	22.9
7/31/2017	5	22.8	22.8	20.4	20.6	22.3	21.9	22.9	22.8
7/31/2017	6	22.7	22.7	20.5	20.4	22.2	21.7	22.9	22.7
7/31/2017	7	22.7	22.6	20.6	20.2	22.1	21.6	22.8	22.7
7/31/2017	8	22.6	22.6	20.9	20.2	22.0	21.6	22.7	22.6
7/31/2017	9	22.5	22.6	21.4	20.3	22.0	21.7	22.6	22.6
7/31/2017	10	22.5	22.7	22.1	20.6	21.5	21.7	22.6	22.6
7/31/2017	11	22.5	22.7	23.0	21.0	22.3	22.2	22.7	22.7
7/31/2017	12	22.6	22.8	24.0	21.7	22.5	22.5	22.8	22.8
7/31/2017	13	22.7	22.9	24.8	22.6	22.8	22.9	22.9	22.8
7/31/2017	14	22.8	23.1	25.3	23.6	23.1	23.4	23.0	22.9
7/31/2017	15	23.0	23.2	25.6	24.3	23.4	23.8	23.1	23.0
7/31/2017	16	23.0	23.2	25.8	25.0	23.6	24.1	23.2	23.1
7/31/2017	17	23.1	23.2	25.6	25.3	23.7	24.3	23.2	23.2
7/31/2017	18	23.1	23.2	25.1	25.5	23.8	24.4	23.2	23.3
7/31/2017	19	23.1	23.2	24.4	25.4	23.8	24.3	23.2	23.4
7/31/2017	20	23.2	23.2	23.6	25.0	23.8	24.1	23.3	23.4
7/31/2017	21	23.1	23.2	22.9	24.7	23.7	24.0	23.3	23.4
7/31/2017	22	23.2	23.2	22.4	24.1	23.6	23.7	23.3	23.4
7/31/2017	23	23.2	23.2	22.0	23.5	23.4	23.5	23.3	23.3
7/31/2017	24	23.1	23.1	21.8	22.8	23.3	23.2	23.3	23.3