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Subject: Chelan River Temperature Monitoring Data - 2015 July Data Report
Date: Friday, August 21, 2015 3:56:37 PM
Attachments: [2015 Chelan River Hourly Temperature Data July Report.pdf](#)
[2015 Chelan River Daily Average Temperature Data July Report.pdf](#)

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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: Steven Hays, Fish & Wildlife Senior Advisor
Public Utility District No. 1 of Chelan County (Chelan PUD)
steve.hays@chelanpud.org
(509)661-4181

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

Water Temperature Data Reports: 2015 July

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

Water temperature monitoring data for July 2015 are provided in the attached files. Due to the recent fires and closure of road access to the sites of the temperature loggers I was not able to swap out loggers that contain data from the end of July. I expect to be able to access these sites in early September and will provide the complete data set for July when I send out the August water temperature data report.

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.

Steven Hays
Fish and Wildlife Senior Advisor
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2015 Chelan River Daily Average Temperature Data - July

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)
7/1/2015	22.1	22.3	23.5	23.8	23.7	23.8	23.3	23.0
7/2/2015	21.3	21.6	22.9	23.3	22.5	23.0	22.8	22.5
7/3/2015	22.5	22.9	23.2	23.4	23.7	23.6	24.3	24.0
7/4/2015	24.7	25.0	24.4	24.4	24.7	24.6	25.3	25.0
7/5/2015	22.2	22.4	23.0	23.2	24.0	23.7	24.8	24.5
7/6/2015	21.9	22.1	22.4	22.6	22.9	22.8	23.4	23.1
7/7/2015	22.7	23.1	23.5	23.3	23.6	23.5	24.0	23.8
7/8/2015	24.5	24.7	24.7	24.8	24.7	24.8	24.9	24.6
7/9/2015	23.1	23.2	24.3	24.6	24.3	24.5	24.4	24.0
7/10/2015	23.7	23.9	23.4	23.5	24.1	23.8	24.6	24.4
7/11/2015	23.3	23.3	23.2	23.5	23.6	23.6	23.9	23.7
7/12/2015	23.3	23.4	22.8	22.7	22.9	22.8	23.5	23.4
7/13/2015	23.5	23.6	23.0	23.0	23.3	23.1	23.7	23.5
7/14/2015	23.6	23.7	23.2	23.1	23.4	23.3	23.9	23.7
7/15/2015	23.8	23.8	23.0	22.9	23.4	23.2	24.1	23.8
7/16/2015	23.6	23.6	22.8	22.5	23.2	22.9	23.8	23.6
7/17/2015	23.5	23.6	23.1	22.9	23.2	23.1	23.8	23.6
7/18/2015	23.3	23.4	23.4	23.3	23.3	23.4	23.7	23.5
7/19/2015	22.8	22.9	23.5	23.7	23.5	23.7	23.9	23.9
7/20/2015	23.5	23.7	23.5	23.6	23.9	23.8	24.3	24.0
7/21/2015	23.9	24.0	23.1	22.8	23.5	23.2	24.2	23.9
7/22/2015	23.4	23.4	22.8	22.6	23.0	22.8	23.6	23.3
7/23/2015	23.3	23.3	22.8	22.6	23.0	22.8	23.5	23.3
7/24/2015	23.2	23.2	22.4	22.3	22.8	22.6	23.4	23.1
7/25/2015	22.8	22.7	21.4	21.2	22.1	21.7	22.9	22.7
7/26/2015	22.2	22.2	21.5	21.3	21.6	21.4	22.1	22.0
7/27/2015	22.2						22.3	
7/28/2015	22.2						22.4	
7/29/2015	22.5						22.8	
7/30/2015	22.9						23.2	
7/31/2015	22.7						23.4	

2015 Chelan River Hourly Temperature Data-July

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)
7/1/2015	1	22.6	22.8	23.4	23.4	23.3	23.3	24.0	23.7
7/1/2015	2	23.0	23.4	23.3	23.4	23.3	23.3	24.0	23.9
7/1/2015	3	23.2	23.9	23.3	23.4	23.3	23.3	24.0	23.9
7/1/2015	4	23.4	23.6	23.4	23.4	23.3	23.3	23.9	23.9
7/1/2015	5	23.5	23.8	23.3	23.4	23.3	23.3	23.9	23.8
7/1/2015	6	23.5	23.7	23.3	23.4	23.3	23.3	23.9	23.7
7/1/2015	7	23.1	22.9	23.3	23.4	23.3	23.3	23.8	23.5
7/1/2015	8	22.6	22.6	23.4	23.4	23.3	23.3	23.7	23.2
7/1/2015	9	22.3	22.3	23.6	23.5	23.4	23.5	23.5	23.1
7/1/2015	10	22.1	22.2	23.8	23.8	23.6	23.7	23.3	23.0
7/1/2015	11	21.8	22.4	24.1	24.1	23.9	24.0	23.3	22.9
7/1/2015	12	21.9	22.1	24.4	24.4	24.2	24.4	23.3	23.2
7/1/2015	13	22.1	22.7	24.6	24.7	24.6	24.7	23.3	23.2
7/1/2015	14	21.9	22.2	24.8	24.9	24.8	25.0	23.3	23.3
7/1/2015	15	21.8	22.1	24.8	25.2	25.0	25.2	23.4	23.3
7/1/2015	16	21.8	22.0	24.8	25.2	25.1	25.2	23.4	22.9
7/1/2015	17	21.7	21.9	24.5	25.0	25.0	25.1	23.3	22.9
7/1/2015	18	21.7	21.8	24.1	24.6	24.6	24.8	23.1	22.8
7/1/2015	19	21.6	21.7	23.5	24.2	24.2	24.3	22.9	22.7
7/1/2015	20	21.4	21.5	23.0	23.8	23.7	23.8	22.7	22.5
7/1/2015	21	21.2	21.3	22.5	23.2	23.2	23.3	22.5	22.2
7/1/2015	22	21.1	21.1	22.1	22.7	22.7	22.8	22.3	21.9
7/1/2015	23	21.0	21.1	21.7	22.3	22.3	22.3	22.1	21.7
7/1/2015	24	20.9	20.9	21.6	21.9	21.9	21.9	21.9	21.5
7/2/2015	1	20.9	21.0	21.4	21.7	21.6	21.6	21.8	21.5
7/2/2015	2	20.9	20.9	21.3	21.5	21.4	21.5	21.8	21.6
7/2/2015	3	20.8	20.8	21.2	21.4	21.3	21.3	21.9	21.6
7/2/2015	4	20.8	21.0	21.2	21.3	21.2	21.2	21.9	21.5
7/2/2015	5	21.0	21.2	21.2	21.2	21.1	21.1	21.9	21.7
7/2/2015	6	20.9	20.9	21.2	21.2	21.1	21.1	22.0	22.0
7/2/2015	7	21.0	21.1	21.3	21.2	21.1	21.2	22.1	21.9
7/2/2015	8	21.1	21.2	21.7	21.4	21.2	21.3	22.2	22.1
7/2/2015	9	21.1	21.3	22.1	21.7	21.6	21.6	22.4	22.1
7/2/2015	10	21.1	21.6	22.8	22.2	22.0	22.1	22.5	22.1
7/2/2015	11	21.1	21.7	23.5	22.9	22.7	22.8	22.6	22.4
7/2/2015	12	21.1	21.7	24.1	23.6	23.0	23.4	22.8	22.4
7/2/2015	13	21.4	21.8	24.6	24.3	23.1	24.0	22.9	22.7
7/2/2015	14	21.5	22.2	25.1	24.9	23.4	24.5	23.1	22.7
7/2/2015	15	21.5	22.0	25.3	25.4	23.6	24.8	23.3	22.9
7/2/2015	16	21.7	22.5	25.5	25.7	23.5	25.0	23.5	23.4
7/2/2015	17	21.7	22.1	25.4	25.6	23.8	25.1	23.5	23.3
7/2/2015	18	21.7	22.0	24.9	25.6	23.5	24.9	23.5	23.3
7/2/2015	19	21.8	22.1	24.3	25.5	23.4	24.7	23.5	23.3
7/2/2015	20	21.7	22.0	23.6	25.2	23.3	24.4	23.5	23.1

7/2/2015	21	21.6	21.7	22.8	24.8	23.2	24.2	23.5	23.1
7/2/2015	22	21.4	21.6	22.2	24.3	23.1	23.9	23.4	22.9
7/2/2015	23	21.3	21.5	21.8	23.7	23.1	23.5	23.4	23.2
7/2/2015	24	21.3	21.4	21.5	23.1	22.9	23.1	23.4	22.9
7/3/2015	1	21.3	21.4	21.2	22.6	22.7	22.7	23.3	22.9
7/3/2015	2	21.3	21.6	21.0	22.1	22.7	22.4	23.2	23.0
7/3/2015	3	21.3	21.7	20.8	21.8	22.7	22.3	23.3	23.0
7/3/2015	4	21.3	21.7	20.7	21.5	22.6	22.1	23.3	23.0
7/3/2015	5	21.4	21.5	20.6	21.2	22.6	21.9	23.4	23.4
7/3/2015	6	21.3	21.7	20.5	21.0	22.5	21.8	23.5	23.2
7/3/2015	7	21.4	21.7	20.6	20.9	22.6	21.7	23.6	23.3
7/3/2015	8	21.3	21.8	21.1	20.9	22.6	21.9	23.6	23.3
7/3/2015	9	21.7	22.3	21.7	21.0	22.6	22.0	23.7	23.5
7/3/2015	10	21.9	22.8	22.5	21.3	22.8	22.3	23.8	23.6
7/3/2015	11	21.9	22.7	23.4	21.8	23.2	22.7	24.0	23.7
7/3/2015	12	22.3	22.9	24.3	22.7	23.6	23.3	24.2	23.9
7/3/2015	13	22.8	23.8	25.3	23.6	24.0	24.0	24.3	24.2
7/3/2015	14	22.8	23.6	25.9	24.5	24.5	24.6	24.5	24.3
7/3/2015	15	23.4	24.1	26.3	25.2	24.6	25.0	24.7	24.4
7/3/2015	16	23.5	23.8	26.5	25.8	24.9	25.4	24.8	24.8
7/3/2015	17	23.6	24.2	26.3	26.1	25.0	25.7	25.0	24.7
7/3/2015	18	23.8	24.6	25.8	26.3	24.9	25.7	25.1	24.9
7/3/2015	19	23.4	24.0	25.2	26.1	25.1	25.6	25.2	24.9
7/3/2015	20	23.5	23.8	24.6	25.8	24.8	25.3	25.2	24.8
7/3/2015	21	23.6	23.6	23.9	25.4	24.8	25.1	25.2	24.8
7/3/2015	22	23.5	24.0	23.4	25.0	24.7	24.9	25.2	24.7
7/3/2015	23	23.4	23.6	22.9	24.5	24.7	24.6	25.1	24.7
7/3/2015	24	23.7	23.7	22.5	24.0	24.5	24.3	25.1	24.8
7/4/2015	1	24.0	24.2	22.3	23.4	24.3	24.0	25.0	24.7
7/4/2015	2	24.2	24.2	22.1	23.0	24.2	23.7	25.0	24.8
7/4/2015	3	24.3	24.4	22.0	22.6	24.1	23.4	24.9	24.7
7/4/2015	4	24.4	24.5	21.9	22.3	23.9	23.2	24.9	24.7
7/4/2015	5	24.5	24.6	22.0	22.2	23.9	23.1	25.0	24.7
7/4/2015	6	24.4	24.5	22.1	22.0	23.8	23.0	25.0	24.7
7/4/2015	7	24.4	24.7	22.3	21.9	23.8	22.9	25.0	24.7
7/4/2015	8	24.5	24.8	22.8	22.0	23.8	23.0	25.0	24.7
7/4/2015	9	24.5	24.8	23.4	22.3	23.9	23.3	25.1	24.7
7/4/2015	10	24.5	24.9	24.2	22.6	24.1	23.6	25.1	24.8
7/4/2015	11	24.5	25.0	25.0	23.2	24.3	24.0	25.1	24.8
7/4/2015	12	24.6	25.1	25.9	24.0	24.8	24.4	25.2	24.9
7/4/2015	13	24.7	25.3	26.7	25.0	25.1	25.1	25.3	25.0
7/4/2015	14	24.8	25.3	27.3	25.8	25.4	25.6	25.4	25.1
7/4/2015	15	24.9	25.4	27.6	26.5	25.6	26.1	25.4	25.2
7/4/2015	16	24.9	25.4	27.6	27.0	25.7	26.4	25.5	25.4
7/4/2015	17	25.0	25.4	27.4	27.2	25.7	26.6	25.6	25.4
7/4/2015	18	25.0	25.4	27.0	27.3	25.7	26.6	25.7	25.5
7/4/2015	19	25.1	25.4	26.2	27.1	25.6	26.5	25.8	25.5
7/4/2015	20	25.1	25.4	25.3	26.7	25.5	26.1	25.8	25.5
7/4/2015	21	25.1	25.2	24.3	26.3	25.4	25.8	25.7	25.4
7/4/2015	22	25.1	25.2	23.5	25.5	25.2	25.4	25.6	25.2
7/4/2015	23	25.1	25.1	22.9	24.7	25.1	24.9	25.5	25.2

7/4/2015	24	24.9	24.9	22.6	23.8	24.8	24.3	25.4	25.1
7/5/2015	1	24.7	24.8	22.4	23.1	24.4	23.9	25.3	24.9
7/5/2015	2	24.6	24.6	22.3	22.6	24.2	23.4	25.2	24.7
7/5/2015	3	24.4	24.4	22.3	22.3	24.0	23.1	25.1	24.7
7/5/2015	4	23.7	23.5	22.3	22.1	23.8	23.0	25.0	24.6
7/5/2015	5	22.9	22.8	22.2	21.9	23.7	22.8	25.0	24.4
7/5/2015	6	22.4	22.4	22.1	21.8	23.7	22.7	24.9	24.3
7/5/2015	7	22.2	22.1	22.0	21.8	23.6	22.6	24.8	24.3
7/5/2015	8	21.9	21.9	22.0	21.9	23.5	22.7	24.8	24.0
7/5/2015	9	21.7	21.8	22.2	22.0	23.6	22.8	24.7	24.0
7/5/2015	10	21.6	21.8	22.6	22.1	23.5	22.9	24.7	24.1
7/5/2015	11	21.6	21.9	23.2	22.3	23.6	23.1	24.6	24.0
7/5/2015	12	21.7	22.0	23.9	22.7	23.7	23.4	24.6	24.1
7/5/2015	13	21.7	22.0	24.4	23.4	24.0	23.7	24.6	24.2
7/5/2015	14	21.7	22.1	24.9	24.0	24.2	24.1	24.7	24.3
7/5/2015	15	21.8	22.1	25.1	24.6	24.4	24.5	24.7	24.6
7/5/2015	16	21.8	22.1	25.2	25.0	24.5	24.8	24.7	24.7
7/5/2015	17	21.7	21.9	24.9	25.1	24.5	25.0	24.7	24.8
7/5/2015	18	21.7	21.9	24.5	25.3	24.5	25.0	24.7	25.0
7/5/2015	19	21.7	21.9	23.9	25.1	24.4	24.8	24.8	24.9
7/5/2015	20	21.7	21.8	23.2	24.7	24.3	24.6	24.7	24.8
7/5/2015	21	21.7	21.7	22.4	24.3	24.3	24.3	24.6	24.8
7/5/2015	22	21.7	21.7	21.8	23.8	24.2	24.1	24.6	24.7
7/5/2015	23	21.6	21.6	21.4	23.2	24.0	23.7	24.5	24.4
7/5/2015	24	21.6	21.6	21.1	22.6	23.8	23.3	24.5	24.2
7/6/2015	1	21.6	21.6	20.9	22.0	23.5	22.9	24.4	24.0
7/6/2015	2	21.6	21.6	20.7	21.6	23.2	22.5	24.3	23.9
7/6/2015	3	21.6	21.6	20.6	21.2	23.1	22.3	24.3	23.9
7/6/2015	4	21.6	21.5	20.5	21.0	22.9	22.1	24.1	23.7
7/6/2015	5	21.6	21.5	20.3	20.8	22.7	21.9	23.9	23.6
7/6/2015	6	21.5	21.5	20.3	20.6	22.5	21.7	23.7	23.7
7/6/2015	7	21.6	21.6	20.3	20.5	21.6	21.2	22.6	22.0
7/6/2015	8	21.6	21.7	20.7	20.5	21.6	21.1	22.4	22.0
7/6/2015	9	21.6	21.7	21.2	20.6	21.7	21.2	22.4	22.1
7/6/2015	10	21.6	21.8	21.9	20.8	21.9	21.5	22.4	22.1
7/6/2015	11	21.6	21.8	22.8	21.3	22.0	21.8	22.4	22.2
7/6/2015	12	21.6	21.9	23.7	22.0	22.2	22.1	22.5	22.3
7/6/2015	13	21.7	22.1	24.4	22.8	22.6	22.8	22.7	22.4
7/6/2015	14	21.8	22.2	24.8	23.6	22.9	23.3	22.9	22.7
7/6/2015	15	22.1	22.5	25.1	24.4	23.1	23.8	23.0	22.8
7/6/2015	16	22.1	22.4	25.1	24.9	23.4	24.3	23.2	23.1
7/6/2015	17	22.2	22.8	24.9	25.1	23.6	24.5	23.4	23.4
7/6/2015	18	22.2	22.7	24.6	25.2	23.7	24.6	23.6	23.5
7/6/2015	19	22.2	22.7	24.1	25.0	23.8	24.4	23.8	23.5
7/6/2015	20	22.3	22.6	23.4	24.7	23.7	24.2	23.9	23.5
7/6/2015	21	22.7	22.9	22.7	24.3	23.6	23.9	23.9	23.8
7/6/2015	22	22.6	23.0	22.2	23.8	23.7	23.7	23.9	23.8
7/6/2015	23	23.0	22.9	21.8	23.3	23.6	23.5	23.8	23.6
7/6/2015	24	22.6	22.7	21.5	22.7	23.4	23.1	23.8	23.6
7/7/2015	1	22.3	22.3	21.4	22.3	23.3	22.8	23.8	23.6
7/7/2015	2	22.3	22.4	21.4	21.9	23.1	22.5	23.8	23.5

7/7/2015	3	22.3	22.4	21.4	21.6	23.0	22.3	23.7	23.4
7/7/2015	4	22.3	22.4	21.2	21.4	22.8	22.2	23.7	23.4
7/7/2015	5	22.3	22.5	21.1	21.3	22.8	22.0	23.7	23.3
7/7/2015	6	22.4	22.5	21.0	21.2	22.6	21.9	23.7	23.4
7/7/2015	7	23.0	23.4	21.1	21.2	22.8	22.0	23.8	23.7
7/7/2015	8	23.6	23.8	21.4	21.2	22.9	22.2	23.8	23.8
7/7/2015	9	23.6	23.9	21.9	21.2	23.0	22.3	23.9	23.8
7/7/2015	10	23.6	24.0	22.8	21.5	23.1	22.5	23.9	23.9
7/7/2015	11	23.6	23.9	23.9	21.9	23.4	22.9	24.0	23.9
7/7/2015	12	23.0	23.3	25.0	22.7	23.6	23.3	24.0	23.8
7/7/2015	13	22.5	23.0	25.8	23.6	24.0	23.8	24.1	23.8
7/7/2015	14	22.4	23.0	26.4	24.6	24.1	24.4	24.2	23.9
7/7/2015	15	22.3	22.9	26.6	25.5	24.2	24.9	24.2	23.8
7/7/2015	16	22.2	22.7	26.5	26.1	24.2	25.3	24.2	24.0
7/7/2015	17	22.2	22.6	26.1	26.4	24.3	25.6	24.2	23.9
7/7/2015	18	22.1	22.3	25.1	26.5	24.0	25.4	24.2	23.8
7/7/2015	19	22.1	22.9	24.1	26.2	23.9	25.2	24.3	23.7
7/7/2015	20	22.2	23.1	23.8	24.5	24.8	25.1	24.3	24.0
7/7/2015	21	22.6	23.5	24.1	24.1	24.0	24.0	24.3	24.1
7/7/2015	22	22.8	23.8	24.0	24.2	24.1	24.1	24.3	24.1
7/7/2015	23	23.7	24.2	24.0	24.2	24.1	24.1	24.4	24.2
7/7/2015	24	24.0	24.3	24.0	24.1	24.0	24.0	24.4	24.3
7/8/2015	1	24.1	24.3	24.1	24.1	24.0	24.0	24.4	24.3
7/8/2015	2	24.1	24.3	24.1	24.1	24.1	24.1	24.5	24.3
7/8/2015	3	24.2	24.4	24.0	24.1	24.0	24.0	24.5	24.4
7/8/2015	4	24.3	24.4	24.0	24.1	24.0	24.0	24.6	24.4
7/8/2015	5	24.3	24.4	24.0	24.1	24.0	24.0	24.6	24.4
7/8/2015	6	24.3	24.4	24.0	24.1	24.0	24.0	24.6	24.4
7/8/2015	7	24.2	24.4	24.1	24.1	24.0	24.0	24.7	24.4
7/8/2015	8	24.2	24.4	24.3	24.2	24.1	24.1	24.7	24.4
7/8/2015	9	24.3	24.5	24.5	24.5	24.3	24.4	24.8	24.5
7/8/2015	10	24.3	24.5	24.8	24.7	24.6	24.6	24.8	24.5
7/8/2015	11	24.3	24.6	25.0	25.0	24.9	25.0	24.8	24.5
7/8/2015	12	24.4	24.6	25.2	25.3	25.2	25.3	24.9	24.6
7/8/2015	13	24.5	24.8	25.4	25.5	25.4	25.5	24.9	24.7
7/8/2015	14	24.5	24.8	25.6	25.7	25.6	25.7	25.0	24.7
7/8/2015	15	24.7	25.0	25.6	25.7	25.6	25.8	25.0	24.8
7/8/2015	16	24.8	25.0	25.6	25.8	25.7	25.8	25.1	24.9
7/8/2015	17	24.7	25.0	25.5	25.7	25.7	25.7	25.1	24.9
7/8/2015	18	24.7	24.9	25.3	25.5	25.4	25.5	25.1	25.0
7/8/2015	19	24.8	25.0	25.0	25.4	25.3	25.4	25.2	25.0
7/8/2015	20	24.8	24.9	24.8	25.0	25.0	25.1	25.2	25.0
7/8/2015	21	24.7	24.9	24.7	24.9	24.8	24.8	25.3	24.9
7/8/2015	22	24.7	24.9	24.5	24.8	24.7	24.7	25.2	24.9
7/8/2015	23	24.7	24.8	24.4	24.6	24.5	24.5	25.1	24.8
7/8/2015	24	24.7	24.8	24.3	24.5	24.4	24.4	25.1	24.8
7/9/2015	1	24.6	24.7	24.2	24.4	24.3	24.3	25.0	24.7
7/9/2015	2	24.5	24.6	24.1	24.3	24.2	24.2	25.0	24.7
7/9/2015	3	24.4	24.6	24.1	24.2	24.1	24.1	24.9	24.6
7/9/2015	4	24.4	24.5	24.1	24.1	24.0	24.1	24.8	24.6
7/9/2015	5	24.4	24.5	24.0	24.1	24.0	24.0	24.8	24.5

7/9/2015	6	24.3	24.3	23.9	24.0	23.9	23.9	24.6	24.5
7/9/2015	7	24.1	24.0	24.0	24.0	23.9	23.9	24.5	24.3
7/9/2015	8	23.6	23.4	24.1	24.0	23.9	24.0	24.4	24.0
7/9/2015	9	23.3	23.5	24.2	24.2	24.1	24.1	24.3	23.9
7/9/2015	10	22.9	23.0	24.6	24.4	24.2	24.3	24.1	23.7
7/9/2015	11	22.7	22.7	24.8	24.8	24.7	24.8	24.0	23.7
7/9/2015	12	22.6	22.6	25.1	25.1	25.0	25.1	24.0	23.8
7/9/2015	13	22.6	22.6	25.4	25.5	25.3	25.5	24.1	23.9
7/9/2015	14	22.4	22.5	25.6	25.7	25.6	25.8	NA	23.7
7/9/2015	15	22.3	22.4	25.5	25.9	26.0	26.0	24.1	23.7
7/9/2015	16	22.4	22.4	25.3	26.0	24.8	25.7	24.1	23.9
7/9/2015	17	22.3	22.6	24.7	25.7	24.4	25.4	24.1	23.7
7/9/2015	18	22.4	22.9	24.5	25.3	24.1	25.1	24.2	23.8
7/9/2015	19	22.4	22.6	24.3	24.9	24.2	24.7	24.2	23.8
7/9/2015	20	22.3	22.3	24.0	24.6	24.0	24.4	24.2	23.9
7/9/2015	21	22.3	22.6	23.6	24.4	23.9	24.2	24.3	23.8
7/9/2015	22	22.3	22.3	23.2	24.1	24.0	24.0	24.3	24.0
7/9/2015	23	22.3	22.3	22.8	23.8	23.8	23.8	24.2	23.8
7/9/2015	24	22.4	22.6	22.5	23.5	23.5	23.6	24.1	23.8
7/10/2015	1	22.4	22.4	22.2	23.2	23.7	23.4	24.0	23.9
7/10/2015	2	22.4	22.4	21.9	22.9	23.5	23.2	24.1	23.7
7/10/2015	3	22.5	22.6	21.8	22.5	23.3	22.9	24.1	23.9
7/10/2015	4	22.5	22.9	21.6	22.2	23.3	22.8	24.1	23.7
7/10/2015	5	22.5	22.4	21.4	22.0	23.3	22.6	24.1	23.8
7/10/2015	6	22.4	22.4	21.5	21.8	23.1	22.4	24.1	23.8
7/10/2015	7	22.9	22.9	21.7	21.6	23.1	22.4	24.1	24.1
7/10/2015	8	22.7	23.2	22.0	21.6	23.1	22.5	24.2	24.0
7/10/2015	9	23.3	23.6	22.4	21.8	23.3	22.7	24.3	24.2
7/10/2015	10	23.8	24.0	23.0	22.0	23.5	23.0	24.4	24.3
7/10/2015	11	23.9	24.2	23.8	22.5	23.8	23.3	24.5	24.4
7/10/2015	12	24.1	24.3	23.9	22.8	24.0	23.4	24.6	24.4
7/10/2015	13	24.2	24.2	24.1	23.3	24.2	23.7	24.7	24.5
7/10/2015	14	24.2	24.4	24.5	23.9	24.4	24.1	24.8	24.6
7/10/2015	15	24.3	24.7	25.2	24.4	24.6	24.7	24.9	24.6
7/10/2015	16	24.3	24.6	25.7	24.7	24.8	24.8	24.9	24.7
7/10/2015	17	24.4	24.7	25.9	25.0	24.8	25.0	25.0	24.8
7/10/2015	18	24.5	24.8	25.8	25.4	24.9	25.1	25.1	24.8
7/10/2015	19	24.6	24.8	25.3	25.5	24.9	25.2	25.2	24.9
7/10/2015	20	24.6	24.7	24.6	25.4	24.9	25.0	25.2	24.9
7/10/2015	21	24.7	24.8	24.0	25.3	24.9	25.0	25.2	24.9
7/10/2015	22	24.7	24.8	23.6	24.9	24.8	24.9	25.2	24.9
7/10/2015	23	24.7	24.8	23.4	24.5	24.8	24.6	25.1	24.9
7/10/2015	24	24.7	24.8	23.2	24.0	24.6	24.4	25.1	24.8
7/11/2015	1	24.7	24.7	23.1	23.6	24.5	24.1	25.0	24.8
7/11/2015	2	24.6	24.7	23.0	23.4	24.3	23.9	25.0	24.8
7/11/2015	3	24.6	24.7	22.9	23.1	24.3	23.7	24.9	24.8
7/11/2015	4	24.6	24.6	22.8	22.9	24.1	23.6	24.9	24.7
7/11/2015	5	24.5	24.5	22.7	22.8	24.1	23.4	24.9	24.6
7/11/2015	6	24.3	24.2	22.7	22.7	24.0	23.3	24.7	24.3
7/11/2015	7	23.5	23.4	22.7	22.6	23.7	23.2	24.4	23.9
7/11/2015	8	23.2	23.1	22.8	22.6	23.5	23.0	24.2	23.6

7/11/2015	9	22.8	22.9	23.1	22.7	23.4	23.0	24.0	23.5
7/11/2015	10	22.8	22.9	23.4	22.9	23.5	23.2	23.8	23.5
7/11/2015	11	22.8	23.1	23.9	23.1	23.5	23.4	23.7	23.6
7/11/2015	12	22.7	22.8	24.2	23.4	23.6	23.5	23.6	23.6
7/11/2015	13	22.8	22.9	24.8	24.0	23.7	23.9	23.5	23.5
7/11/2015	14	22.7	22.9	24.8	24.2	23.4	23.9	23.4	23.3
7/11/2015	15	22.5	22.7	24.8	24.6	23.4	24.1	23.4	23.2
7/11/2015	16	22.4	22.5	24.7	24.8	23.3	24.2	23.3	23.1
7/11/2015	17	22.4	22.5	24.4	24.9	23.4	24.3	23.3	23.0
7/11/2015	18	22.3	22.4	24.1	24.8	23.2	24.1	23.4	23.0
7/11/2015	19	22.4	22.4	23.5	24.5	23.0	23.8	23.4	23.0
7/11/2015	20	22.5	22.6	23.0	24.2	23.0	23.7	23.4	23.0
7/11/2015	21	22.9	22.8	22.3	23.9	23.1	23.4	23.5	23.3
7/11/2015	22	23.3	23.3	21.8	23.4	23.2	23.2	23.5	23.5
7/11/2015	23	23.5	23.4	21.4	22.8	23.2	23.0	23.5	23.5
7/11/2015	24	23.5	23.4	21.2	22.3	23.1	22.7	23.5	23.5
7/12/2015	1	23.4	23.3	21.0	21.8	22.9	22.4	23.5	23.2
7/12/2015	2	23.3	23.2	21.1	21.4	22.7	22.1	23.5	23.3
7/12/2015	3	23.3	23.2	21.1	21.1	22.6	21.9	23.4	23.1
7/12/2015	4	23.3	23.2	21.1	20.9	22.5	21.7	23.4	23.1
7/12/2015	5	23.2	23.1	21.1	20.8	22.5	21.6	23.4	23.0
7/12/2015	6	23.2	23.1	21.1	20.8	22.2	21.5	23.4	23.0
7/12/2015	7	23.2	23.2	21.2	20.8	22.2	21.5	23.4	22.9
7/12/2015	8	23.2	23.2	21.6	20.9	22.2	21.6	23.4	23.0
7/12/2015	9	23.2	23.4	22.4	21.2	22.4	21.9	23.4	23.1
7/12/2015	10	23.2	23.3	22.8	21.3	22.4	22.0	23.4	23.2
7/12/2015	11	23.2	23.3	23.4	21.8	22.6	22.3	23.5	23.3
7/12/2015	12	23.2	23.4	23.7	22.4	22.8	22.5	23.5	23.3
7/12/2015	13	23.2	23.5	24.3	23.2	23.2	23.2	23.4	23.4
7/12/2015	14	23.3	23.6	25.0	23.9	23.3	23.7	23.4	23.3
7/12/2015	15	23.3	23.5	25.3	24.2	23.4	23.8	23.6	23.8
7/12/2015	16	23.3	23.6	25.3	24.7	23.6	24.1	23.7	23.7
7/12/2015	17	23.4	23.6	25.3	24.9	23.7	24.4	23.7	23.9
7/12/2015	18	23.4	23.5	24.6	25.1	23.6	24.4	23.7	24.0
7/12/2015	19	23.4	23.5	24.0	25.0	23.6	24.3	23.7	23.9
7/12/2015	20	23.4	23.4	23.4	24.7	23.6	24.1	23.7	23.7
7/12/2015	21	23.4	23.4	22.8	24.3	23.5	23.9	23.7	23.5
7/12/2015	22	23.4	23.4	22.3	23.7	23.4	23.5	23.6	23.4
7/12/2015	23	23.4	23.4	22.0	23.1	23.2	23.2	23.5	23.3
7/12/2015	24	23.5	23.4	21.8	22.7	23.0	22.8	23.5	23.2
7/13/2015	1	23.5	23.4	21.7	22.2	22.9	22.5	23.4	23.2
7/13/2015	2	23.5	23.4	21.6	21.9	22.8	22.3	23.3	23.2
7/13/2015	3	23.5	23.4	21.5	21.6	22.7	22.1	23.2	22.9
7/13/2015	4	23.5	23.4	21.4	21.5	22.5	22.0	23.1	22.9
7/13/2015	5	23.5	23.4	21.3	21.3	22.5	21.8	23.1	22.9
7/13/2015	6	23.5	23.4	21.3	21.2	22.3	21.7	23.1	22.9
7/13/2015	7	23.4	23.4	21.4	21.2	22.6	21.8	23.3	23.5
7/13/2015	8	23.4	23.4	21.7	21.2	22.8	22.1	23.6	23.4
7/13/2015	9	23.4	23.6	22.3	21.5	22.8	22.3	23.7	23.4
7/13/2015	10	23.4	23.6	23.0	21.7	22.9	22.5	23.7	23.4
7/13/2015	11	23.4	23.6	23.9	22.1	23.1	22.8	23.8	23.5

7/13/2015	12	23.4	23.6	24.8	22.8	23.4	23.2	23.8	23.5
7/13/2015	13	23.4	23.7	25.3	23.7	23.7	23.7	23.9	23.6
7/13/2015	14	23.4	23.7	25.2	24.4	23.8	24.1	23.9	23.7
7/13/2015	15	23.5	23.7	24.9	25.1	24.1	24.6	24.0	23.7
7/13/2015	16	23.5	23.7	24.8	25.3	24.0	24.7	24.0	23.8
7/13/2015	17	23.6	23.8	24.7	25.2	24.1	24.8	24.0	23.8
7/13/2015	18	23.6	23.8	24.6	24.9	24.0	24.5	24.0	23.9
7/13/2015	19	23.7	23.8	24.1	24.5	23.9	24.2	24.0	23.8
7/13/2015	20	23.7	23.8	23.5	24.2	23.8	23.9	24.0	23.8
7/13/2015	21	23.7	23.7	22.9	24.0	23.7	23.8	24.0	23.8
7/13/2015	22	23.8	23.7	22.5	23.7	23.7	23.6	24.0	23.8
7/13/2015	23	23.7	23.7	22.1	23.2	23.6	23.4	24.0	23.7
7/13/2015	24	23.7	23.7	21.9	22.8	23.5	23.1	23.9	23.6
7/14/2015	1	23.7	23.7	21.7	22.3	23.2	22.8	23.9	23.6
7/14/2015	2	23.7	23.6	21.5	21.9	23.1	22.5	23.8	23.5
7/14/2015	3	23.6	23.6	21.4	21.6	23.0	22.3	23.8	23.5
7/14/2015	4	23.6	23.5	21.2	21.4	22.8	22.1	23.7	23.4
7/14/2015	5	23.6	23.5	21.1	21.2	22.8	22.0	23.7	23.3
7/14/2015	6	23.5	23.4	21.1	21.1	22.5	21.8	23.6	23.2
7/14/2015	7	23.5	23.5	21.2	21.0	22.4	21.8	23.6	23.1
7/14/2015	8	23.5	23.5	21.5	21.0	22.6	21.9	23.6	23.5
7/14/2015	9	23.5	23.6	22.1	21.1	22.6	22.1	23.6	23.5
7/14/2015	10	23.5	23.7	22.8	21.3	22.9	22.3	23.7	23.6
7/14/2015	11	23.5	23.7	23.8	21.7	23.0	22.6	23.8	23.6
7/14/2015	12	23.4	23.7	24.7	22.5	23.4	23.0	23.8	23.6
7/14/2015	13	23.4	23.7	25.5	23.4	23.7	23.6	23.9	23.6
7/14/2015	14	23.4	23.6	25.9	24.3	23.9	24.1	23.9	23.7
7/14/2015	15	23.5	23.7	25.9	25.1	24.1	24.6	24.0	23.8
7/14/2015	16	23.5	23.7	25.9	25.6	24.1	24.9	24.0	23.9
7/14/2015	17	23.6	23.8	25.6	25.7	24.2	25.1	24.1	23.9
7/14/2015	18	23.6	23.8	25.2	25.7	24.2	25.0	24.1	23.9
7/14/2015	19	23.6	23.8	24.6	25.4	24.0	24.7	24.1	23.9
7/14/2015	20	23.7	23.7	23.8	24.9	24.0	24.4	24.1	24.0
7/14/2015	21	23.7	23.8	23.2	24.5	24.0	24.2	24.2	24.1
7/14/2015	22	23.8	23.8	22.6	24.1	24.0	24.0	24.2	24.1
7/14/2015	23	23.8	23.8	22.2	23.6	23.8	23.7	24.2	23.9
7/14/2015	24	23.8	23.8	21.9	23.0	23.7	23.4	24.2	23.9
7/15/2015	1	23.9	23.9	21.7	22.5	23.4	23.0	24.1	23.9
7/15/2015	2	23.9	23.9	21.5	22.1	23.3	22.7	24.1	23.7
7/15/2015	3	23.9	23.8	21.3	21.7	23.1	22.4	24.1	23.7
7/15/2015	4	23.9	23.8	21.2	21.4	22.8	22.2	24.0	23.6
7/15/2015	5	23.8	23.8	21.1	21.2	22.7	22.0	24.0	23.5
7/15/2015	6	23.8	23.7	21.0	21.0	22.6	21.8	23.9	23.4
7/15/2015	7	23.8	23.7	21.1	20.9	22.7	21.9	23.9	23.8
7/15/2015	8	23.7	23.8	21.4	20.9	22.6	22.0	23.9	23.7
7/15/2015	9	23.7	23.8	22.0	21.0	22.6	22.1	23.9	23.7
7/15/2015	10	23.7	23.9	22.7	21.2	22.8	22.3	24.0	23.7
7/15/2015	11	23.6	23.8	23.6	21.6	23.1	22.6	24.0	23.8
7/15/2015	12	23.6	23.8	24.6	22.4	23.4	23.0	24.0	23.7
7/15/2015	13	23.6	23.8	25.2	23.1	23.6	23.4	24.0	23.8
7/15/2015	14	23.6	23.9	25.7	24.1	24.0	24.0	24.0	23.8

7/15/2015	15	23.6	23.8	26.0	24.7	24.1	24.4	24.1	23.9
7/15/2015	16	23.6	23.8	25.7	25.2	24.1	24.5	24.1	23.9
7/15/2015	17	23.7	23.9	25.5	25.4	24.2	24.8	24.1	24.0
7/15/2015	18	23.7	23.8	24.9	25.4	24.2	24.8	24.2	24.0
7/15/2015	19	23.8	23.8	24.2	25.1	24.1	24.5	24.2	24.0
7/15/2015	20	23.8	23.8	23.5	24.6	24.0	24.2	24.3	24.0
7/15/2015	21	23.9	23.9	22.8	24.2	23.9	24.0	24.2	24.0
7/15/2015	22	23.9	23.9	22.0	23.7	23.7	23.6	24.2	24.0
7/15/2015	23	23.9	23.8	21.7	23.0	23.5	23.3	24.1	23.8
7/15/2015	24	23.8	23.8	21.6	22.4	23.2	22.8	24.0	23.7
7/16/2015	1	23.8	23.7	21.4	21.8	23.1	22.5	23.9	23.7
7/16/2015	2	23.8	23.7	21.3	21.5	23.0	22.3	23.8	23.6
7/16/2015	3	23.7	23.6	21.3	21.2	22.8	22.0	23.8	23.4
7/16/2015	4	23.7	23.6	21.3	21.1	22.6	21.9	23.7	23.4
7/16/2015	5	23.6	23.5	21.3	21.0	22.5	21.8	23.6	23.3
7/16/2015	6	23.6	23.5	21.2	20.9	22.4	21.7	23.6	23.4
7/16/2015	7	23.6	23.5	21.4	20.9	22.6	21.9	23.8	23.7
7/16/2015	8	23.6	23.5	21.6	21.0	22.7	21.9	23.8	23.6
7/16/2015	9	23.5	23.5	22.1	21.1	22.7	22.0	23.8	23.5
7/16/2015	10	23.4	23.4	22.4	21.3	22.7	22.2	23.8	23.5
7/16/2015	11	23.4	23.4	22.7	21.5	22.9	22.3	23.8	23.4
7/16/2015	12	23.3	23.5	23.4	22.1	23.1	22.7	23.8	23.4
7/16/2015	13	23.3	23.6	24.3	22.7	23.4	23.2	23.8	23.5
7/16/2015	14	23.4	23.6	25.0	23.3	23.5	23.4	23.8	23.5
7/16/2015	15	23.5	23.7	25.2	23.8	23.6	23.6	23.8	23.6
7/16/2015	16	23.5	23.8	25.4	24.3	23.8	24.0	23.8	23.6
7/16/2015	17	23.7	23.9	25.4	24.6	24.0	24.2	23.8	23.8
7/16/2015	18	23.8	23.9	25.0	24.7	23.9	24.3	23.8	23.8
7/16/2015	19	23.8	23.8	24.3	24.6	23.8	24.1	23.8	23.8
7/16/2015	20	23.8	23.7	23.4	24.4	23.7	23.9	23.8	23.8
7/16/2015	21	23.7	23.6	22.6	24.0	23.7	23.8	23.9	23.7
7/16/2015	22	23.6	23.5	22.1	23.6	23.6	23.5	23.9	23.7
7/16/2015	23	23.6	23.5	21.7	23.0	23.4	23.2	23.9	23.5
7/16/2015	24	23.6	23.4	21.5	22.4	23.2	22.8	23.8	23.5
7/17/2015	1	23.5	23.4	21.3	21.8	23.0	22.4	23.8	23.5
7/17/2015	2	23.5	23.4	21.1	21.4	22.8	22.2	23.7	23.4
7/17/2015	3	23.5	23.4	21.0	21.2	22.6	22.0	23.7	23.4
7/17/2015	4	23.4	23.3	21.0	21.0	22.6	21.8	23.6	23.3
7/17/2015	5	23.4	23.3	21.0	20.8	22.4	21.6	23.6	23.1
7/17/2015	6	23.4	23.3	21.0	20.7	22.3	21.5	23.6	23.4
7/17/2015	7	23.3	23.3	21.1	20.7	22.4	21.6	23.5	23.4
7/17/2015	8	23.3	23.4	21.4	20.7	22.4	21.7	23.6	23.4
7/17/2015	9	23.3	23.4	22.0	20.9	22.5	21.9	23.6	23.3
7/17/2015	10	23.2	23.4	22.7	21.1	22.6	22.1	23.6	23.3
7/17/2015	11	23.2	23.4	23.6	21.6	22.8	22.4	23.7	23.3
7/17/2015	12	23.2	23.5	24.6	22.4	23.1	22.8	23.7	23.4
7/17/2015	13	23.3	23.6	25.3	23.3	23.5	23.4	23.7	23.4
7/17/2015	14	23.4	23.7	25.8	24.2	23.8	24.0	23.8	23.6
7/17/2015	15	23.5	23.9	26.1	25.0	24.0	24.5	23.8	23.7
7/17/2015	16	23.7	24.0	26.1	25.5	24.0	24.8	23.8	23.8
7/17/2015	17	23.8	23.9	25.9	25.7	24.1	25.1	23.9	23.9

7/17/2015	18	23.8	23.9	25.4	25.8	24.1	25.0	23.9	23.9
7/17/2015	19	23.8	23.9	24.7	25.6	24.0	24.9	24.0	24.0
7/17/2015	20	23.9	23.9	23.8	25.2	24.0	24.6	24.0	24.0
7/17/2015	21	23.9	23.9	23.0	24.7	23.9	24.3	24.1	24.0
7/17/2015	22	23.9	23.8	22.4	24.1	23.8	24.0	24.1	23.9
7/17/2015	23	23.8	23.7	22.1	23.4	23.7	23.6	24.1	23.8
7/17/2015	24	23.7	23.7	22.0	22.8	23.5	23.3	24.0	23.8
7/18/2015	1	23.7	23.6	21.8	22.3	23.3	22.9	24.0	23.7
7/18/2015	2	23.7	23.6	21.7	21.9	23.2	22.6	23.9	23.7
7/18/2015	3	23.7	23.6	21.6	21.7	23.0	22.4	23.8	23.6
7/18/2015	4	23.6	23.5	21.4	21.5	22.8	22.2	23.7	23.5
7/18/2015	5	23.6	23.5	21.3	21.3	22.8	22.1	23.7	23.4
7/18/2015	6	23.6	23.5	21.2	21.2	22.6	21.9	23.6	23.5
7/18/2015	7	23.6	23.5	21.2	21.0	22.8	22.0	23.7	23.6
7/18/2015	8	23.5	23.5	21.6	21.1	22.8	22.0	23.8	23.5
7/18/2015	9	23.4	23.5	22.2	21.2	22.8	22.2	23.7	23.4
7/18/2015	10	23.2	23.4	22.9	21.4	22.8	22.3	23.7	23.3
7/18/2015	11	23.2	23.4	23.8	21.8	22.9	22.6	23.7	23.3
7/18/2015	12	23.2	23.5	24.8	22.6	23.3	23.0	23.7	23.3
7/18/2015	13	23.2	23.4	25.5	23.6	23.5	23.5	23.7	23.4
7/18/2015	14	23.2	23.4	26.0	24.5	23.7	24.1	23.7	23.4
7/18/2015	15	23.3	23.5	26.3	25.3	23.8	24.6	23.7	23.5
7/18/2015	16	23.2	23.4	26.4	25.8	23.9	25.0	23.7	23.6
7/18/2015	17	23.2	23.4	26.1	26.1	23.9	25.2	23.7	23.6
7/18/2015	18	23.2	23.4	25.7	26.2	23.8	25.3	23.7	23.6
7/18/2015	19	23.3	23.4	25.0	26.1	23.7	25.1	23.7	23.5
7/18/2015	20	23.3	23.3	24.3	25.7	23.7	24.8	23.7	23.6
7/18/2015	21	23.2	23.2	23.5	25.3	23.6	24.6	23.7	23.5
7/18/2015	22	23.1	23.1	23.0	24.8	23.5	24.3	23.7	23.5
7/18/2015	23	23.0	23.0	22.6	24.3	23.5	24.0	23.7	23.5
7/18/2015	24	23.1	23.0	22.3	23.7	23.4	23.6	23.7	23.4
7/19/2015	1	23.0	22.9	22.1	23.1	23.3	23.3	23.7	23.4
7/19/2015	2	22.9	22.9	21.9	22.7	23.2	23.0	23.6	23.4
7/19/2015	3	22.9	22.8	21.7	22.3	23.1	22.7	23.6	23.4
7/19/2015	4	22.8	22.8	21.6	22.1	23.0	22.5	23.5	23.4
7/19/2015	5	22.8	22.7	21.5	21.8	22.8	22.4	23.5	23.4
7/19/2015	6	22.8	22.7	21.4	21.7	22.8	22.2	23.5	23.2
7/19/2015	7	22.7	22.8	21.3	21.5	22.7	22.2	23.5	23.2
7/19/2015	8	22.7	22.8	21.7	21.6	22.7	22.2	23.5	23.2
7/19/2015	9	22.7	22.8	22.3	21.7	22.7	22.3	23.6	23.2
7/19/2015	10	22.6	22.8	23.0	21.8	22.8	22.5	23.6	23.5
7/19/2015	11	22.6	22.8	23.9	22.3	23.0	22.8	23.7	23.8
7/19/2015	12	22.6	22.9	24.8	23.0	23.4	23.3	23.8	23.8
7/19/2015	13	22.6	23.0	25.6	24.0	23.8	23.9	23.9	24.0
7/19/2015	14	22.7	22.9	26.3	24.9	24.0	24.5	24.0	24.3
7/19/2015	15	22.7	23.0	26.5	25.7	24.1	25.0	24.1	24.3
7/19/2015	16	22.7	23.0	26.4	26.2	24.3	25.4	24.2	24.4
7/19/2015	17	22.8	23.0	26.2	26.5	24.3	25.6	24.4	24.8
7/19/2015	18	22.8	23.0	25.6	26.6	24.3	25.6	24.4	24.8
7/19/2015	19	22.8	23.0	24.8	26.3	24.4	25.4	24.4	25.1
7/19/2015	20	22.8	22.9	24.1	25.9	24.3	25.2	24.4	24.7

7/19/2015	21	22.8	22.8	23.4	25.4	24.3	24.9	24.3	24.6
7/19/2015	22	22.8	22.8	22.9	24.8	23.9	24.6	23.9	23.3
7/19/2015	23	22.8	22.8	22.6	24.2	23.6	23.9	23.8	23.9
7/19/2015	24	22.8	22.8	22.3	23.6	23.7	23.7	24.1	23.8
7/20/2015	1	22.8	22.8	22.2	23.2	23.6	23.4	24.1	23.7
7/20/2015	2	22.8	22.9	22.0	22.8	23.4	23.1	24.0	23.6
7/20/2015	3	22.9	23.0	22.0	22.5	23.2	22.9	23.9	23.5
7/20/2015	4	22.9	22.9	21.9	22.3	23.2	22.7	23.9	23.5
7/20/2015	5	22.8	22.8	21.8	22.1	23.1	22.6	23.8	23.4
7/20/2015	6	22.8	22.8	21.8	22.0	23.0	22.5	23.7	23.4
7/20/2015	7	23.1	23.4	21.8	21.9	23.3	22.5	23.9	24.1
7/20/2015	8	23.7	23.9	22.1	22.0	23.5	22.8	24.4	24.1
7/20/2015	9	23.6	23.8	22.5	22.1	23.6	23.0	24.4	24.1
7/20/2015	10	23.5	23.8	23.2	22.3	23.5	23.1	24.4	24.0
7/20/2015	11	23.5	23.8	24.2	22.6	23.6	23.3	24.4	24.0
7/20/2015	12	23.5	23.8	25.3	23.2	23.8	23.6	24.4	24.0
7/20/2015	13	23.6	23.7	26.0	24.1	24.1	24.1	24.5	24.0
7/20/2015	14	23.7	23.8	26.4	24.9	24.3	24.5	24.5	24.1
7/20/2015	15	23.7	23.8	26.5	25.7	24.5	25.0	24.5	24.2
7/20/2015	16	23.5	23.8	26.4	26.1	24.7	25.4	24.5	24.4
7/20/2015	17	23.4	23.8	25.9	26.2	24.8	25.5	24.5	24.4
7/20/2015	18	23.9	24.0	25.2	26.1	24.7	25.4	24.5	24.5
7/20/2015	19	24.1	24.2	24.4	25.7	24.6	25.1	24.5	24.5
7/20/2015	20	24.2	24.2	23.4	25.1	24.5	24.7	24.5	24.4
7/20/2015	21	24.2	24.2	22.7	24.5	24.3	24.4	24.5	24.4
7/20/2015	22	24.2	24.2	22.3	23.9	24.1	24.0	24.6	24.3
7/20/2015	23	24.2	24.1	22.0	23.2	23.8	23.5	24.5	24.1
7/20/2015	24	24.1	24.1	21.9	22.5	23.5	23.1	24.5	24.1
7/21/2015	1	24.1	24.1	21.9	22.1	23.4	22.8	24.4	24.1
7/21/2015	2	24.1	24.0	21.9	21.8	23.3	22.6	24.4	23.9
7/21/2015	3	24.1	24.0	21.8	21.7	23.3	22.4	24.3	23.8
7/21/2015	4	24.0	24.0	21.7	21.6	22.9	22.3	24.3	23.7
7/21/2015	5	24.0	23.9	21.7	21.5	22.9	22.3	24.2	23.7
7/21/2015	6	24.0	23.9	21.7	21.5	22.9	22.2	24.1	23.9
7/21/2015	7	24.0	23.9	21.7	21.4	22.9	22.3	24.1	24.0
7/21/2015	8	23.9	23.9	21.9	21.4	23.0	22.3	24.2	24.0
7/21/2015	9	23.9	24.0	22.5	21.6	23.0	22.5	24.2	23.9
7/21/2015	10	23.8	24.0	23.2	21.8	23.1	22.7	24.2	23.9
7/21/2015	11	23.8	24.0	24.0	22.2	23.4	23.0	24.3	23.9
7/21/2015	12	23.8	24.1	24.9	22.8	23.6	23.3	24.3	24.0
7/21/2015	13	23.9	24.1	25.5	23.6	23.9	23.7	24.3	24.1
7/21/2015	14	24.0	24.2	25.8	24.4	24.2	24.2	24.4	24.1
7/21/2015	15	24.0	24.1	25.5	24.7	24.2	24.4	24.3	24.1
7/21/2015	16	24.0	24.1	24.8	25.0	24.2	24.5	24.3	24.1
7/21/2015	17	24.0	24.1	24.5	25.0	24.3	24.6	24.3	24.1
7/21/2015	18	24.0	24.1	24.3	24.8	24.2	24.5	24.2	24.1
7/21/2015	19	24.0	24.0	23.7	24.3	24.0	24.1	24.2	24.0
7/21/2015	20	24.0	23.9	22.9	23.8	23.8	23.7	24.1	24.0
7/21/2015	21	23.9	23.8	22.5	23.4	23.6	23.3	24.1	23.9
7/21/2015	22	23.8	23.7	22.0	22.9	23.4	23.0	24.0	23.8
7/21/2015	23	23.8	23.6	21.7	22.4	23.2	22.7	24.0	23.5

7/21/2015	24	23.7	23.6	21.4	22.0	23.0	22.5	23.9	23.5
7/22/2015	1	23.6	23.5	21.3	21.7	22.8	22.3	23.8	23.5
7/22/2015	2	23.6	23.4	21.1	21.3	22.7	22.1	23.7	23.4
7/22/2015	3	23.6	23.4	21.0	21.1	22.6	21.8	23.6	23.2
7/22/2015	4	23.5	23.4	20.9	20.9	22.5	21.7	23.5	23.2
7/22/2015	5	23.5	23.3	20.8	20.7	22.3	21.5	23.4	23.0
7/22/2015	6	23.4	23.3	20.7	20.6	22.2	21.4	23.4	23.0
7/22/2015	7	23.4	23.3	20.7	20.4	22.3	21.5	23.7	23.4
7/22/2015	8	23.3	23.3	21.1	20.5	22.3	21.5	23.6	23.3
7/22/2015	9	23.2	23.2	21.5	20.6	22.2	21.6	23.6	23.1
7/22/2015	10	23.1	23.2	22.2	20.8	22.3	21.8	23.6	23.1
7/22/2015	11	23.1	23.2	23.1	21.2	22.5	22.1	23.5	23.2
7/22/2015	12	23.1	23.3	24.1	21.9	22.8	22.5	23.5	23.2
7/22/2015	13	23.1	23.3	24.9	22.8	23.2	23.0	23.4	23.2
7/22/2015	14	23.2	23.4	25.5	23.7	23.4	23.5	23.4	23.3
7/22/2015	15	23.2	23.5	25.7	24.4	23.6	24.0	23.5	23.3
7/22/2015	16	23.4	23.6	25.8	24.9	23.7	24.3	23.5	23.4
7/22/2015	17	23.5	23.6	25.5	25.2	23.7	24.5	23.6	23.5
7/22/2015	18	23.5	23.6	25.0	25.4	23.7	24.6	23.6	23.5
7/22/2015	19	23.5	23.5	24.3	25.1	23.6	24.4	23.7	23.6
7/22/2015	20	23.5	23.5	23.4	24.7	23.6	24.1	23.7	23.6
7/22/2015	21	23.6	23.5	22.6	24.2	23.6	23.8	23.8	23.6
7/22/2015	22	23.5	23.5	22.2	23.7	23.5	23.5	23.8	23.6
7/22/2015	23	23.5	23.4	21.7	23.1	23.4	23.3	23.7	23.4
7/22/2015	24	23.5	23.4	21.5	22.5	23.2	22.8	23.7	23.4
7/23/2015	1	23.5	23.4	21.3	22.0	22.9	22.5	23.6	23.3
7/23/2015	2	23.4	23.3	21.1	21.6	22.8	22.2	23.6	23.2
7/23/2015	3	23.4	23.3	21.1	21.3	22.6	22.0	23.5	23.2
7/23/2015	4	23.3	23.2	21.0	21.1	22.5	21.8	23.5	23.2
7/23/2015	5	23.3	23.2	20.9	20.8	22.3	21.6	23.5	23.0
7/23/2015	6	23.3	23.1	20.8	20.7	22.2	21.5	23.4	23.0
7/23/2015	7	23.2	23.1	20.8	20.6	22.3	21.5	23.4	23.3
7/23/2015	8	23.2	23.2	21.0	20.6	22.2	21.5	23.4	23.2
7/23/2015	9	23.1	23.2	21.5	20.6	22.2	21.6	23.4	23.1
7/23/2015	10	23.0	23.1	22.0	20.7	22.2	21.6	23.4	23.0
7/23/2015	11	23.0	23.1	23.1	21.2	22.5	22.0	23.4	23.1
7/23/2015	12	23.0	23.2	24.2	21.9	22.8	22.5	23.5	23.1
7/23/2015	13	23.0	23.3	25.1	22.8	23.1	23.0	23.5	23.2
7/23/2015	14	23.1	23.4	25.6	23.7	23.4	23.5	23.5	23.3
7/23/2015	15	23.2	23.5	25.8	24.6	23.6	24.0	23.5	23.4
7/23/2015	16	23.4	23.6	25.8	25.1	23.7	24.5	23.6	23.4
7/23/2015	17	23.5	23.6	25.4	25.4	23.7	24.6	23.7	23.5
7/23/2015	18	23.6	23.6	24.8	25.5	23.7	24.6	23.7	23.5
7/23/2015	19	23.5	23.5	24.2	25.2	23.6	24.4	23.8	23.5
7/23/2015	20	23.5	23.5	23.4	24.7	23.6	24.1	23.7	23.6
7/23/2015	21	23.6	23.5	22.8	24.2	23.6	23.8	23.7	23.6
7/23/2015	22	23.5	23.4	22.2	23.7	23.4	23.4	23.7	23.5
7/23/2015	23	23.5	23.4	21.8	23.1	23.3	23.1	23.6	23.3
7/23/2015	24	23.4	23.4	21.6	22.6	23.1	22.8	23.6	23.4
7/24/2015	1	23.4	23.3	21.5	22.1	22.9	22.5	23.5	23.4
7/24/2015	2	23.4	23.3	21.3	21.7	22.7	22.3	23.5	23.2

7/24/2015	3	23.4	23.2	21.2	21.3	22.6	22.0	23.4	23.1
7/24/2015	4	23.3	23.2	21.1	21.2	22.5	21.8	23.4	23.0
7/24/2015	5	23.3	23.1	20.9	21.0	22.4	21.7	23.4	22.9
7/24/2015	6	23.2	23.1	20.8	20.8	22.2	21.6	23.3	23.1
7/24/2015	7	23.2	23.1	20.7	20.7	22.3	21.6	23.3	23.2
7/24/2015	8	23.2	23.2	21.0	20.7	22.3	21.6	23.2	23.1
7/24/2015	9	23.1	23.1	21.5	20.8	22.3	21.7	23.2	23.0
7/24/2015	10	22.9	23.0	22.2	20.9	22.2	21.8	23.2	22.9
7/24/2015	11	22.9	23.0	23.1	21.2	22.4	22.1	23.2	22.9
7/24/2015	12	22.9	23.1	24.0	21.9	22.7	22.4	23.3	23.0
7/24/2015	13	22.9	23.2	24.4	22.6	22.9	22.7	23.3	23.0
7/24/2015	14	23.0	23.3	25.1	23.6	23.3	23.3	23.4	23.1
7/24/2015	15	23.1	23.3	25.3	24.1	23.4	23.7	23.4	23.2
7/24/2015	16	23.2	23.3	24.7	24.4	23.4	23.7	23.4	23.2
7/24/2015	17	23.2	23.3	24.1	24.6	23.4	23.8	23.5	23.3
7/24/2015	18	23.2	23.3	23.6	24.6	23.5	24.0	23.5	23.3
7/24/2015	19	23.2	23.3	23.2	24.2	23.4	23.7	23.4	23.3
7/24/2015	20	23.2	23.2	22.7	23.7	23.3	23.4	23.4	23.3
7/24/2015	21	23.2	23.1	22.2	23.2	23.1	23.1	23.4	23.2
7/24/2015	22	23.2	23.1	21.7	22.8	23.0	22.8	23.3	23.2
7/24/2015	23	23.1	23.0	21.4	22.3	22.8	22.6	23.3	23.1
7/24/2015	24	23.1	23.0	21.2	21.8	22.6	22.3	23.3	23.0
7/25/2015	1	23.1	23.0	21.2	21.5	22.5	22.0	23.2	23.0
7/25/2015	2	23.1	22.9	21.1	21.2	22.5	21.8	23.2	23.0
7/25/2015	3	23.0	22.9	21.2	21.0	22.2	21.6	23.2	22.8
7/25/2015	4	23.0	22.9	21.1	20.9	22.1	21.5	23.1	22.8
7/25/2015	5	23.0	22.9	21.1	20.8	22.0	21.5	23.1	22.8
7/25/2015	6	23.0	22.8	21.1	20.8	21.9	21.4	23.1	22.8
7/25/2015	7	23.0	22.8	21.1	20.7	22.2	21.5	23.0	23.0
7/25/2015	8	22.9	22.8	21.1	20.7	22.1	21.4	23.0	22.9
7/25/2015	9	22.9	22.8	21.3	20.8	22.0	21.5	23.0	22.8
7/25/2015	10	22.8	22.8	21.7	21.0	22.1	21.6	23.0	22.8
7/25/2015	11	22.8	22.7	22.0	21.0	22.1	21.7	23.0	22.8
7/25/2015	12	22.7	22.7	22.2	21.2	22.2	21.7	23.0	22.8
7/25/2015	13	22.7	22.8	22.4	21.5	22.3	21.9	22.9	22.7
7/25/2015	14	22.7	22.7	22.5	21.7	22.4	22.0	22.9	22.7
7/25/2015	15	22.7	22.7	22.6	22.0	22.4	22.1	22.9	22.7
7/25/2015	16	22.7	22.7	22.6	22.1	22.4	22.2	22.8	22.7
7/25/2015	17	22.7	22.6	22.3	22.0	22.4	22.1	22.8	22.7
7/25/2015	18	22.7	22.6	21.9	22.0	22.3	22.0	22.8	22.6
7/25/2015	19	22.6	22.5	21.4	21.9	22.3	21.9	22.7	22.6
7/25/2015	20	22.6	22.4	20.9	21.6	22.1	21.7	22.7	22.5
7/25/2015	21	22.6	22.4	20.5	21.2	21.9	21.5	22.6	22.5
7/25/2015	22	22.5	22.3	20.4	20.8	21.8	21.2	22.6	22.4
7/25/2015	23	22.5	22.3	20.3	20.4	21.6	21.0	22.5	22.2
7/25/2015	24	22.4	22.2	20.3	20.1	21.6	20.8	22.4	22.3
7/26/2015	1	22.4	22.2	20.2	20.0	21.5	20.7	22.4	22.2
7/26/2015	2	22.3	22.1	20.2	19.9	21.4	20.7	22.3	22.2
7/26/2015	3	22.3	22.1	20.2	19.9	21.4	20.6	22.2	22.2
7/26/2015	4	22.3	22.1	20.2	19.8	21.3	20.5	22.1	22.0
7/26/2015	5	22.2	22.0	20.1	19.7	21.2	20.4	22.0	21.8

7/26/2015	6	22.2	22.0	20.1	19.7	21.1	20.4	22.0	21.7
7/26/2015	7	22.2	22.0	20.1	19.7	21.0	20.3	21.9	21.6
7/26/2015	8	22.1	22.1	20.4	19.8	20.9	20.4	21.9	21.6
7/26/2015	9	22.1	22.1	20.9	19.9	20.9	20.5	21.9	21.6
7/26/2015	10	22.1	22.2	21.4	20.1	21.1	20.7	21.9	21.7
7/26/2015	11	22.1	22.2	22.1	20.4	21.3	20.9	21.9	21.9
7/26/2015	12	22.1	22.3	22.9	21.1	21.5	21.3	22.0	21.9
7/26/2015	13	22.2	22.2	23.1	21.7	21.8	21.8	22.1	22.1
7/26/2015	14	22.2	22.3	23.3	22.3	21.9	22.0	22.1	22.1
7/26/2015	15	22.2	22.4	24.0	23.0	22.2	22.6	22.2	22.3
7/26/2015	16	22.2	22.3	23.9	23.2	22.3	22.8	22.2	22.5
7/26/2015	17	22.3	22.3	23.6	23.3	22.3	22.9	22.3	22.5
7/26/2015	18	22.3	22.3	23.2	23.5	22.2	22.9	22.3	22.4
7/26/2015	19	22.3	22.3	22.6	23.3	22.0	22.7	22.3	22.3
7/26/2015	20	22.4	22.3	21.8	22.9	22.0	22.4	22.2	22.3
7/26/2015	21	22.4	22.3	21.1	22.5	22.0	22.2	22.2	22.2
7/26/2015	22	22.4	22.3	20.6	22.1	22.0	22.0	22.1	22.1
7/26/2015	23	22.4	22.2	20.3	21.5	21.8	21.7	22.1	22.0
7/26/2015	24	22.3	22.2	20.3	21.0	21.6	21.3	22.0	22.0
7/27/2015	1	22.3	22.1	20.2	20.4	21.5	21.0	22.0	21.8
7/27/2015	2	22.3	22.1	20.1	20.1	21.3	20.7	21.9	21.8
7/27/2015	3	22.2	22.0	20.0	19.9	21.2	20.5	21.9	21.7
7/27/2015	4	22.2	22.0	19.9	19.8	21.1	20.4	21.8	21.7
7/27/2015	5	22.1	21.9	19.8	19.7	20.9	20.2	21.8	21.6
7/27/2015	6	22.1	21.9	19.7	19.6	21.0	20.2	21.7	21.6
7/27/2015	7	22.1	21.9	19.7	19.4	21.2	20.3	22.3	22.0
7/27/2015	8	22.0	21.9	20.0	19.6	21.3	20.4	22.4	21.9
7/27/2015	9	21.9	21.9	20.6	19.7	21.2	20.6	22.3	21.9
7/27/2015	10	21.9	22.0	21.4	19.8	21.2	20.7	22.3	21.9
7/27/2015	11	21.9	22.0	22.3	20.2	21.5	21.0	22.3	22.0
7/27/2015	12	21.9						22.3	
7/27/2015	13	22.0						22.3	
7/27/2015	14	22.0						22.3	
7/27/2015	15	22.1						22.3	
7/27/2015	16	22.2						22.4	
7/27/2015	17	22.3						22.4	
7/27/2015	18	22.4						22.5	
7/27/2015	19	22.4						22.5	
7/27/2015	20	22.4						22.5	
7/27/2015	21	22.4						22.6	
7/27/2015	22	22.3						22.6	
7/27/2015	23	22.3						22.5	
7/27/2015	24	22.3						22.5	
7/28/2015	1	22.3						22.4	
7/28/2015	2	22.2						22.4	
7/28/2015	3	22.2						22.3	
7/28/2015	4	22.2						22.2	
7/28/2015	5	22.1						22.2	
7/28/2015	6	22.1						22.2	
7/28/2015	7	22.1						22.3	
7/28/2015	8	22.0						22.3	

7/28/2015	9	22.0						22.3
7/28/2015	10	21.9						22.3
7/28/2015	11	21.9						22.3
7/28/2015	12	21.8						22.3
7/28/2015	13	21.9						22.3
7/28/2015	14	22.0						22.3
7/28/2015	15	22.1						22.3
7/28/2015	16	22.3						22.4
7/28/2015	17	22.4						22.4
7/28/2015	18	22.4						22.5
7/28/2015	19	22.5						22.6
7/28/2015	20	22.5						22.7
7/28/2015	21	22.5						22.7
7/28/2015	22	22.5						22.8
7/28/2015	23	22.5						22.7
7/28/2015	24	22.5						22.7
7/29/2015	1	22.5						22.6
7/29/2015	2	22.5						22.6
7/29/2015	3	22.4						22.5
7/29/2015	4	22.4						22.4
7/29/2015	5	22.4						22.4
7/29/2015	6	22.4						22.4
7/29/2015	7	22.4						22.4
7/29/2015	8	22.3						22.5
7/29/2015	9	22.4						22.5
7/29/2015	10	22.4						22.6
7/29/2015	11	22.4						22.7
7/29/2015	12	22.4						22.7
7/29/2015	13	22.4						22.8
7/29/2015	14	22.4						22.8
7/29/2015	15	22.5						22.9
7/29/2015	16	22.5						22.9
7/29/2015	17	22.5						23.0
7/29/2015	18	22.6						23.0
7/29/2015	19	22.6						23.1
7/29/2015	20	22.6						23.1
7/29/2015	21	22.7						23.2
7/29/2015	22	22.7						23.2
7/29/2015	23	22.7						23.2
7/29/2015	24	22.7						23.1
7/30/2015	1	22.7						23.1
7/30/2015	2	22.7						23.0
7/30/2015	3	22.7						23.0
7/30/2015	4	22.7						22.9
7/30/2015	5	22.7						22.9
7/30/2015	6	22.7						22.8
7/30/2015	7	22.7						22.9
7/30/2015	8	22.8						23.0
7/30/2015	9	22.8						23.0
7/30/2015	10	22.8						23.1
7/30/2015	11	22.8						23.2

7/30/2015	12	22.8						23.2	
7/30/2015	13	22.9						23.3	
7/30/2015	14	22.9						23.3	
7/30/2015	15	22.9						23.4	
7/30/2015	16	23.0						23.4	
7/30/2015	17	23.0						23.5	
7/30/2015	18	23.0						23.5	
7/30/2015	19	23.0						23.6	
7/30/2015	20	23.0						23.6	
7/30/2015	21	23.0						23.6	
7/30/2015	22	23.0						23.5	
7/30/2015	23	22.9						23.5	
7/30/2015	24	22.9						23.4	
7/31/2015	1	22.9						23.4	
7/31/2015	2	22.9						23.3	
7/31/2015	3	22.9						23.3	
7/31/2015	4	22.8						23.3	
7/31/2015	5	22.8						23.2	
7/31/2015	6	22.8						23.2	
7/31/2015	7	22.7						23.1	
7/31/2015	8	22.6						23.1	
7/31/2015	9	22.5						23.1	
7/31/2015	10	22.5						23.0	
7/31/2015	11	22.4						23.1	
7/31/2015	12	22.4						23.2	
7/31/2015	13	22.4						23.3	
7/31/2015	14	22.4						23.4	
7/31/2015	15	22.5						23.5	
7/31/2015	16	22.5						23.6	
7/31/2015	17	22.5						23.6	
7/31/2015	18	22.6						23.7	
7/31/2015	19	22.7						23.7	
7/31/2015	20	22.7						23.8	
7/31/2015	21	22.8						23.8	
7/31/2015	22	22.8						23.8	
7/31/2015	23	22.8						23.7	
7/31/2015	24	22.8						23.7	