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FEDERAL ENERGY
REGULATORY COMMISSION

Wisconsin Public Service Corporation
(a subsidiary of WPS Resources Corporation)
700 North Adams Street
P.O. Box 19002
Green Bay, WI 54307-9002

January 7, 2005

-093

FERC Project No. 2595

Ms. Magalie R. Salas, Secretary
Federal Energy Regulatory Commission
Mail Code: DTCA, HL 21.3
888 First Street, N.E.
Washington, DC 20426

Dear Secretary Salas:

High Falls Hydroelectric Project Water Quality Monitoring Data

Per the Order Amending Water Quality Monitoring Plan for the High Falls Hydroelectric Facility, dated April 30, 2002, Wisconsin Public Service Corporation (WPSC) is pleased to submit water quality monitoring data for the 2004 monitoring year.

Per the Water Quality Monitoring Plan, dissolved oxygen (D.O.), temperature, and pH were monitored hourly from June 1st to September 30th, 2004, below the dam. The data collected is enclosed for your review. The D.O. data has been corrected for a loss of calibration when the uncorrected data would show a non-compliant condition. Please note that there are two hourly readings below the dissolved oxygen standard of 5.0 mg/l. In both instances, there was a sudden drop in the D.O. level from the previous hourly reading, and an immediate increase in D.O. for the following reading. Water was being spilled through the taintor gates for D.O. supplementation during the events. These readings are transient anomalies, possibly due to debris or fouling of the D.O. membrane.

Several pH readings were observed above the 9.0 water quality standard. The deviations are due to the monitoring equipment. WPSC has been able to trace the readings back to specific monitoring equipment units used when the deviations occurred. WPSC had similar problems during the 2003 monitoring season and is continuing to work with the manufacturer to resolve the issue.

There are no deviations from water quality standards to note. Copies of the corrected D.O., temperature, pH, and supplemental flow data are included in Appendix A. Copies of pre- and post-deployment calibration data are included in Appendix B. WPSC has consulted with the Wisconsin Department of Natural Resources (WDNR) and the U.S. Fish and Wildlife Service (FWS) about the water quality monitoring data. Documentation of Agency Consultation is included in Appendix C.

cc: Appendix A / E-library

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If you have any questions, please do not hesitate to call Mr. Mark Metcalf at (920) 433-1833.

Sincerely,

Terry P. Jensky
Assistant Vice President - Energy Supply Operations
Telephone: (920) 433-2277

syx

Enc.

cc: Mr. Gil Snyder, WPSC – D2
Mr. Larry Thompson, FWS
Mr. Shawn Puzen – D2
Ms. Peggy Harding, FERC – Chicago
Mr. Mike Donofrio, WDNR
Ms. Joan Johanek, WPSC – D2 (file)
Mr. Bruce Crocker, WPSC – D2 (cover only)
Mr. Bill Bloczynski, WPSC – MERH (cover only)

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Appendix A

Water Quality Monitoring Data

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Wisconsin Public Service Corp.
Peshtigo River Hydroelectric Project
High Falls Dam
Dissolved Oxygen, pH and Water Temperature Data
FERC N0. 2595

Date MMDDYY	Time HHMMSS	Temp aC	pH Units	DO% Sat	DO mg/l	Water through Spillway (CFS)
60104	2000	14.20	7.37	83.6	8.29	0
60104	12000	14.20	7.38	83.5	8.28	0
60104	22000	14.18	7.32	83.0	8.23	0
60104	32000	14.14	7.29	81.9	8.13	0
60104	42000	14.11	7.28	81.5	8.10	0
60104	52000	14.08	7.28	81.3	8.08	0
60104	62000	14.10	7.38	81.7	8.12	0
60104	72000	14.09	7.43	81.7	8.12	0
60104	82000	14.07	7.44	81.1	8.07	0
60104	92000	14.06	7.41	80.9	8.05	0
60104	102000	14.06	7.37	80.5	8.01	0
60104	112000	14.08	7.40	81.1	8.06	0
60104	122000	14.09	7.43	81.2	8.07	0
60104	132000	14.20	7.45	82.4	8.17	0
60104	142000	14.20	7.48	82.1	8.13	0
60104	152000	14.44	7.47	84.1	8.29	0
60104	162000	14.61	7.47	84.4	8.29	0
60104	172000	14.65	7.48	84.6	8.30	0
60104	182000	14.58	7.49	83.7	8.23	0
60104	192000	14.53	7.47	83.7	8.24	0
60104	202000	14.42	7.46	82.9	8.18	0
60104	212000	14.35	7.45	82.8	8.18	0
60104	222000	14.37	7.48	83.2	8.22	0
60104	232000	14.31	7.49	82.3	8.14	0
60204	2000	14.34	7.52	82.8	8.16	0
60204	12000	14.37	7.50	83.2	8.22	0
60204	22000	14.31	7.52	82.7	8.18	0
60204	32000	14.25	7.52	82.3	8.15	0
60204	42000	14.17	7.50	81.9	8.13	0
60204	52000	14.17	7.54	82.2	8.15	0
60204	62000	14.13	7.53	82.1	8.15	0
60204	72000	14.09	7.55	81.6	8.11	0
60204	82000	14.16	7.55	82.2	8.15	0
60204	92000	14.28	7.57	82.1	8.13	0
60204	102000	14.53	7.60	84.0	8.27	0
60204	112000	14.87	7.62	85.9	8.40	0
60204	122000	15.04	7.62	86.4	8.41	0
60204	132000	15.03	7.62	86.0	8.37	0
60204	142000	15.07	7.63	86.3	8.39	0
60204	152000	15.21	7.64	87.3	8.47	0

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60204	162000	15.40	7.65	88.1	8.51	0
60204	172000	15.40	7.65	88.2	8.52	0
60204	182000	15.44	7.66	88.7	8.56	0
60204	192000	15.52	7.67	89.6	8.63	0
60204	202000	15.33	7.65	88.6	8.57	0
60204	212000	15.30	7.66	88.5	8.56	0
60204	222000	15.04	7.62	86.7	8.44	0
60204	232000	14.93	7.62	85.5	8.35	0
60304	2000	14.88	7.61	85.1	8.32	0
60304	12000	14.80	7.60	84.7	8.29	0
60304	22000	14.71	7.57	83.7	8.21	0
60304	32000	14.71	7.56	84.3	8.27	0
60304	42000	14.66	7.56	83.7	8.22	0
60304	52000	14.57	7.58	83.0	8.16	0
60304	62000	14.57	7.55	83.2	8.18	0
60304	72000	14.52	7.60	83.2	8.19	0
60304	82000	14.64	7.57	83.8	8.23	0
60304	92000	14.72	7.60	84.0	8.23	0
60304	102000	14.74	7.59	83.9	8.22	0
60304	112000	14.90	7.57	84.1	8.21	0
60304	122000	15.16	7.58	85.6	8.31	0
60304	132000	15.50	7.67	86.9	8.38	0
60304	142000	15.38	7.62	86.1	8.32	0
60304	152000	15.56	7.61	87.1	8.38	0
60304	162000	15.26	7.60	85.6	8.30	0
60304	172000	14.97	7.57	84.2	8.21	0
60304	182000	14.82	7.62	84.5	8.27	0
60304	192000	14.72	7.61	84.3	8.26	0
60304	202000	14.65	7.60	83.6	8.21	0
60304	212000	14.49	7.52	82.7	8.15	0
60304	222000	14.42	7.48	81.9	8.08	0
60304	232000	14.47	7.48	82.4	8.12	0
60404	2000	14.46	7.48	82.2	8.11	0
60404	12000	14.50	7.47	82.7	8.15	0
60404	22000	14.46	7.47	82.5	8.13	0
60404	32000	14.42	7.47	82.3	8.12	0
60404	42000	14.49	7.47	82.9	8.17	0
60404	52000	14.57	7.49	83.9	8.25	0
60404	62000	14.58	7.48	84.0	8.25	0
60404	72000	14.58	7.48	84.0	8.26	0
60404	82000	14.72	7.49	84.4	8.27	0
60404	92000	14.80	7.48	84.6	8.28	0
60404	102000	14.75	7.48	84.0	8.23	0
60404	112000	14.73	7.46	84.2	8.25	0
60404	130000	14.88	7.31	82.6	8.16	0
60404	140000	14.84	7.34	82.3	8.14	0
60404	150000	14.74	7.32	81.9	8.12	0
60404	160000	14.66	7.29	81.1	8.05	0
60404	170000	14.57	7.30	80.8	8.04	0
60404	180000	14.41	7.28	80.0	7.99	0
60404	190000	14.22	7.25	78.4	7.86	0

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60404	200000	14.16	7.25	78.3	7.86	0
60404	210000	14.09	7.24	77.4	7.78	0
60404	220000	14.20	7.27	79.3	7.95	0
60404	230000	14.29	7.30	79.9	7.99	0
60504	0	14.41	7.33	80.6	8.05	0
60504	10000	14.56	7.35	81.2	8.07	0
60504	20000	14.51	7.35	80.1	7.98	0
60504	30000	14.53	7.34	79.3	7.90	0
60504	40000	14.65	7.38	80.6	8.00	0
60504	50000	14.81	7.39	80.7	7.98	0
60504	60000	14.87	7.39	81.0	8.00	0
60504	70000	14.85	7.39	80.8	7.99	0
60504	80000	14.96	7.41	81.5	8.04	0
60504	90000	15.03	7.40	81.5	8.03	0
60504	100000	14.95	7.40	81.2	8.02	0
60504	110000	14.96	7.41	81.1	8.00	0
60504	120000	14.84	7.39	80.7	7.98	0
60504	130000	14.71	7.39	79.5	7.89	0
60504	140000	14.56	7.39	79.0	7.86	0
60504	150000	14.36	7.36	77.3	7.73	0
60504	160000	14.27	7.35	76.9	7.70	0
60504	170000	14.35	7.37	77.6	7.76	0
60504	180000	14.25	7.36	76.4	7.65	0
60504	190000	14.20	7.35	76.4	7.62	0
60504	200000	14.28	7.36	76.7	7.67	0
60504	210000	14.26	7.36	76.1	7.62	0
60504	220000	14.28	7.37	76.1	7.62	0
60504	230000	14.26	7.38	76.1	7.63	0
60604	0	14.38	7.38	76.5	7.64	0
60604	10000	14.44	7.40	77.1	7.69	0
60604	20000	14.41	7.40	77.2	7.71	0
60604	30000	14.40	7.41	77.0	7.69	0
60604	40000	14.58	7.44	77.8	7.74	0
60604	50000	14.68	7.45	78.4	7.78	0
60604	60000	14.68	7.47	78.7	7.82	0
60604	70000	14.71	7.49	78.8	7.81	0
60604	80000	14.71	7.49	78.7	7.81	0
60604	90000	14.94	7.54	80.0	7.91	0
60604	100000	15.04	7.52	80.1	7.89	0
60604	110000	15.34	7.55	81.2	7.94	0
60604	120000	15.62	7.57	82.4	8.01	0
60604	130000	15.66	7.57	82.2	7.99	0
60604	140000	15.64	7.56	82.0	7.97	0
60604	150000	15.50	7.57	81.2	7.92	0
60604	160000	15.54	7.56	81.7	7.96	0
60604	170000	15.46	7.56	81.6	7.96	0
60604	180000	15.44	7.55	80.9	7.90	0
60604	190000	15.33	7.55	80.3	7.86	0
60604	200000	15.26	7.55	80.2	7.86	0
60604	210000	15.15	7.54	78.9	7.75	0
60604	220000	15.14	7.54	78.5	7.71	0

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60604	230000	15.19	7.54	78.6	7.71	0
60704	0	15.26	7.55	78.7	7.72	0
60704	10000	15.33	7.57	79.0	7.73	0
60704	20000	15.45	7.58	79.7	7.78	0
60704	30000	15.52	7.59	79.5	7.75	0
60704	40000	15.73	7.60	80.3	7.79	0
60704	50000	15.81	7.60	80.4	7.79	0
60704	60000	15.92	7.60	80.8	7.81	0
60704	70000	16.01	7.61	81.6	7.87	0
60704	80000	15.98	7.63	81.4	7.85	0
60704	90000	15.86	7.61	80.7	7.81	0
60704	100000	15.74	7.64	80.4	7.80	0
60704	110000	15.57	7.60	79.4	7.73	0
60704	120000	15.34	7.61	78.7	7.70	0
60704	130000	15.10	7.58	76.9	7.56	0
60704	140000	14.91	7.55	75.0	7.40	0
60704	150000	14.72	7.53	73.6	7.30	0
60704	160000	14.66	7.54	73.5	7.30	0
60704	170000	14.46	7.52	72.2	7.19	0
60704	180000	14.27	7.50	70.7	7.08	0
60704	190000	14.25	7.51	70.8	7.09	0
60704	200000	14.45	7.53	72.3	7.21	0
60704	210000	14.70	7.56	73.0	7.24	0
60704	220000	14.92	7.56	73.8	7.28	0
60704	230000	15.14	7.60	74.4	7.31	0
60804	0	15.31	7.58	75.4	7.38	0
60804	10000	15.51	7.60	76.4	7.45	0
60804	20000	15.59	7.60	76.3	7.43	0
60804	30000	15.87	7.63	77.3	7.47	0
60804	40000	16.04	7.70	78.0	7.52	0
60804	50000	16.06	7.70	78.1	7.53	0
60804	60000	16.06	7.67	78.0	7.51	0
60804	70000	16.07	7.67	78.5	7.56	0
60804	80000	16.10	7.68	78.3	7.54	0
60804	90000	16.15	7.68	78.3	7.53	0
60804	100000	16.23	7.68	78.8	7.57	0
60804	110000	16.28	7.77	78.9	7.57	0
60804	120000	16.66	7.65	79.8	7.60	0
60804	130000	16.50	7.68	79.5	7.59	0
60804	140000	16.48	7.63	79.2	7.57	0
60804	150000	16.52	7.67	78.8	7.52	0
60804	160000	16.84	7.72	79.7	7.55	0
60804	170000	17.00	7.71	80.5	7.61	0
60804	180000	17.10	7.71	80.4	7.57	0
60804	190000	16.93	7.70	79.5	7.52	0
60804	200000	17.16	7.72	79.9	7.52	0
60804	210000	17.46	7.76	79.9	7.48	0
60804	220000	17.88	7.78	81.6	7.57	0
60804	230000	17.94	7.77	81.4	7.54	0
60904	0	18.13	7.79	81.4	7.51	0
60904	10000	18.31	7.83	82.5	7.58	0

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60904	20000	18.46	7.80	83.0	7.61	0
60904	30000	18.53	7.83	82.6	7.56	0
60904	40000	18.64	7.80	83.0	7.58	0
60904	50000	18.64	7.77	83.0	7.58	0
60904	60000	18.33	7.76	81.9	7.52	0
60904	70000	18.17	7.71	80.7	7.44	0
60904	80000	18.17	7.72	81.1	7.47	0
60904	90000	18.54	7.74	82.2	7.52	0
60904	100000	18.56	7.76	82.5	7.55	0
60904	110000	18.55	7.75	82.3	7.52	0
60904	120000	18.58	7.75	82.7	7.56	0
60904	130000	18.27	7.77	81.3	7.48	0
60904	140000	18.49	7.74	82.0	7.51	0
60904	150000	18.63	7.76	81.9	7.48	0
60904	160000	18.76	7.76	82.1	7.48	0
60904	170000	18.80	7.76	82.5	7.51	0
60904	180000	18.77	7.76	82.5	7.52	0
60904	190000	18.66	7.76	81.9	7.47	0
60904	200000	18.55	7.75	81.4	7.45	0
60904	210000	18.48	7.75	81.1	7.43	0
60904	220000	18.42	7.73	80.8	7.41	0
60904	230000	18.34	7.72	80.5	7.40	0
61004	0	18.24	7.72	79.7	7.34	0
61004	10000	18.10	7.75	79.1	7.30	0
61004	20000	18.00	7.71	78.9	7.30	0
61004	30000	18.03	7.71	78.7	7.28	0
61004	40000	18.02	7.74	79.1	7.33	0
61004	50000	18.11	7.73	79.3	7.32	0
61004	60000	18.08	7.74	79.3	7.32	0
61004	70000	18.12	7.75	79.3	7.32	0
61004	80000	18.06	7.77	79.5	7.34	0
61004	90000	18.16	7.79	79.7	7.35	0
61004	100000	18.28	7.81	80.6	7.41	0
61004	110000	18.30	7.81	80.7	7.42	0
61004	120000	18.37	7.84	80.7	7.41	0
61004	130000	18.33	7.83	80.6	7.41	0
61004	140000	18.36	7.86	81.1	7.45	0
61004	150000	18.37	7.86	81.0	7.44	0
61004	160000	18.33	7.85	80.7	7.41	0
61004	170000	18.29	7.84	79.9	7.35	0
61004	180000	18.18	7.82	78.8	7.27	0
61004	190000	17.97	7.79	77.6	7.18	0
61004	200000	17.83	7.79	76.9	7.14	0
61004	210000	17.69	7.80	76.2	7.10	0
61004	220000	17.62	7.78	76.2	7.11	0
61004	230000	17.61	7.78	75.4	7.04	0
61104	0	17.67	7.75	76.5	7.13	0
61104	10000	17.76	7.76	77.4	7.20	0
61104	20000	17.74	7.78	76.6	7.12	0
61104	30000	17.78	7.76	76.8	7.13	0
61104	40000	17.86	7.78	77.0	7.15	0

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61104	50000	17.92	7.79	77.7	7.20	0
61104	60000	17.93	7.80	78.0	7.23	0
61104	70000	17.90	7.80	77.9	7.22	0
61104	80000	17.93	7.80	78.1	7.23	0
61104	90000	17.92	7.80	77.9	7.22	0
61104	100000	17.94	7.80	78.0	7.23	0
61104	110000	17.96	7.80	78.0	7.22	0
61104	120000	17.88	7.79	77.6	7.20	0
61104	130000	17.87	7.78	77.5	7.19	0
61104	140000	17.83	7.79	77.5	7.20	0
61104	150000	17.81	7.78	76.9	7.14	0
61104	160000	17.70	7.78	76.5	7.12	0
61104	170000	17.75	7.77	76.4	7.11	0
61104	180000	17.81	7.77	75.9	7.05	0
61104	190000	17.80	7.77	75.6	7.02	0
61104	200000	17.75	7.75	75.8	7.05	0
61104	210000	17.62	7.74	75.0	7.00	0
61104	220000	17.55	7.74	74.7	6.97	0
61104	230000	17.54	7.72	74.9	7.00	0
61204	0	17.53	7.72	74.7	6.98	0
61204	10000	17.46	7.73	74.5	6.97	0
61204	20000	17.66	7.72	75.9	7.08	0
61204	30000	17.59	7.71	75.3	7.02	0
61204	40000	17.45	7.70	74.7	6.99	0
61204	50000	17.33	7.68	74.4	6.98	0
61204	60000	17.41	7.70	75.0	7.02	0
61204	70000	17.40	7.69	74.9	7.01	0
61204	80000	17.40	7.69	74.7	7.00	0
61204	90000	17.32	7.69	75.0	7.04	0
61204	100000	17.21	7.69	74.3	7.02	0
61204	110000	17.19	7.68	74.3	6.99	0
61204	120000	17.21	7.76	74.4	6.99	0
61204	130000	17.43	7.75	75.6	7.08	0
61204	140000	17.41	7.75	76.1	7.12	0
61204	150000	17.44	7.74	76.0	7.12	0
61204	160000	17.33	7.73	74.7	7.01	0
61204	170000	17.26	7.73	74.2	6.97	0
61204	180000	17.27	7.73	73.9	6.94	0
61204	190000	17.29	7.73	73.9	6.94	0
61204	200000	17.27	7.72	74.2	6.96	0
61204	210000	17.28	7.73	73.7	6.92	0
61204	220000	17.26	7.72	73.5	6.90	0
61204	230000	17.26	7.74	73.1	6.86	0
61304	0	17.26	7.74	73.3	6.86	0
61304	10000	17.39	7.76	73.6	6.90	0
61304	20000	17.45	7.76	73.9	6.91	0
61304	30000	17.50	7.77	74.2	6.94	0
61304	40000	17.59	7.78	74.3	6.93	0
61304	50000	17.64	7.80	74.8	6.97	0
61304	60000	17.69	7.83	75.4	7.02	0
61304	70000	17.71	7.79	75.6	7.04	0

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61304	80000	17.70	7.79	75.6	7.02	0
61304	90000	17.72	7.79	75.3	7.01	0
61304	100000	17.73	7.78	74.7	6.95	0
61304	110000	17.73	7.75	75.0	6.98	0
61304	120000	17.56	7.74	73.8	6.89	0
61304	130000	17.92	7.82	76.5	7.09	0
61304	140000	18.14	7.87	77.7	7.17	0
61304	150000	18.12	7.81	77.7	7.14	0
61304	160000	18.10	7.77	76.0	7.01	0
61304	170000	17.82	7.77	74.7	6.93	0
61304	180000	17.88	7.77	75.6	7.01	0
61304	190000	17.91	7.76	75.6	7.01	0
61304	200000	18.04	7.75	75.7	7.00	0
61304	210000	18.22	8.28	76.8	7.08	0
61304	220000	17.98	7.83	74.8	6.93	0
61304	230000	17.86	7.78	74.1	6.87	0
61404	0	17.67	7.88	72.7	6.77	0
61404	10000	17.76	7.72	73.6	6.84	0
61404	20000	17.82	7.80	74.1	6.88	0
61404	30000	17.93	7.82	74.6	6.94	0
61404	40000	17.97	7.77	74.8	6.92	0
61404	50000	17.90	7.81	74.3	6.89	0
61404	60000	17.74	7.90	73.7	6.86	0
61404	70000	17.75	7.75	74.1	6.89	0
61404	80000	17.66	8.19	73.5	6.83	0
61404	90000	17.74	8.10	73.7	6.85	0
61404	100000	17.79	7.77	73.6	6.84	0
61404	110000	17.77	7.78	73.3	6.82	0
61404	120000	17.90	7.31	78.7	7.19	0
61404	130000	17.99	7.25	78.7	7.18	0
61404	140000	18.10	7.28	79.0	7.19	0
61404	150000	18.09	7.28	79.0	7.19	0
61404	160000	18.07	7.29	79.2	7.21	0
61404	170000	18.15	7.29	79.5	7.22	0
61404	180000	18.16	7.31	79.5	7.22	0
61404	190000	18.20	7.32	79.4	7.21	0
61404	200000	18.13	7.29	79.9	7.26	0
61404	210000	18.29	7.29	80.0	7.25	0
61404	220000	18.23	7.30	78.6	7.13	0
61404	230000	18.21	7.29	78.5	7.12	0
61504	0	18.27	7.30	78.7	7.14	0
61504	10000	18.34	7.29	78.7	7.13	0
61504	20000	18.38	7.31	79.3	7.17	0
61504	30000	18.38	7.31	78.7	7.12	0
61504	40000	18.44	7.32	78.9	7.13	0
61504	50000	18.41	7.32	78.1	7.06	0
61504	60000	18.43	7.31	78.9	7.13	0
61504	70000	18.38	7.32	78.5	7.10	0
61504	80000	18.42	7.32	79.5	7.18	0
61504	90000	18.49	7.33	79.6	7.19	0
61504	100000	18.44	7.32	79.2	7.15	0

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61504	110000	18.42	7.32	78.4	7.08	0
61504	120000	18.49	7.32	78.3	7.07	0
61504	130000	18.52	7.32	78.4	7.07	0
61504	140000	18.52	7.35	79.1	7.13	0
61504	150000	18.40	7.32	78.0	7.05	0
61504	160000	18.32	7.30	76.5	6.93	0
61504	170000	18.17	7.30	75.9	6.89	0
61504	180000	18.10	7.28	75.1	6.83	0
61504	190000	17.89	7.26	73.5	6.72	0
61504	200000	17.86	7.26	72.7	6.64	0
61504	210000	17.80	7.25	72.4	6.63	0
61504	220000	17.85	7.25	72.3	6.61	0
61504	230000	17.86	7.25	72.9	6.67	0
61604	0	18.00	7.27	73.7	6.72	0
61604	10000	18.04	7.28	74.2	6.76	0
61604	20000	18.14	7.30	75.3	6.85	0
61604	30000	18.18	7.31	76.1	6.91	0
61604	40000	18.21	7.33	77.0	6.99	0
61604	50000	18.25	7.35	77.3	6.98	0
61604	60000	18.31	7.35	77.4	7.01	0
61604	70000	18.36	7.38	78.8	7.13	0
61604	80000	18.44	7.38	79.5	7.18	0
61604	90000	18.57	7.37	78.9	7.11	0
61604	100000	18.61	7.36	78.9	7.10	0
61604	110000	18.54	7.35	78.7	7.08	0
61604	120000	18.46	7.33	77.2	6.97	0
61604	130000	18.49	7.35	77.2	6.97	0
61604	140000	18.47	7.34	77.0	6.98	0
61604	150000	18.55	7.35	77.9	7.02	0
61604	160000	18.44	7.33	76.7	6.93	0
61604	170000	18.42	7.34	76.7	6.93	0
61604	180000	18.23	7.33	75.1	6.81	0
61604	190000	18.17	7.31	74.4	6.76	0
61604	200000	18.69	7.35	77.0	6.92	0
61604	210000	18.98	7.35	78.9	7.05	0
61604	220000	19.24	7.34	79.3	7.09	0
61604	230000	19.06	7.31	78.3	6.98	0
61704	0	19.33	7.36	81.1	7.20	0
61704	10000	19.49	7.37	82.3	7.28	0
61704	20000	19.56	7.38	81.7	7.22	0
61704	30000	19.71	7.39	82.9	7.30	0
61704	40000	19.60	7.37	81.6	7.20	0
61704	50000	19.39	7.34	80.5	7.14	0
61704	60000	19.56	7.38	81.9	7.23	0
61704	70000	19.49	7.38	80.7	7.13	0
61704	80000	19.50	7.40	80.8	7.14	0
61704	90000	19.39	7.37	80.1	7.10	0
61704	100000	19.45	7.35	80.3	7.11	0
61704	110000	19.63	7.36	81.2	7.16	449
61704	120000	19.79	7.40	81.1	7.13	0
61704	130000	19.88	7.41	82.3	7.22	0

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61704	140000	19.81	7.39	80.8	7.10	0
61704	150000	19.96	7.39	81.6	7.15	0
61704	160000	19.91	7.40	80.7	7.12	0
61704	170000	19.98	7.40	80.4	7.05	0
61704	180000	19.87	7.38	79.7	7.00	0
61704	190000	19.84	7.39	80.1	7.03	0
61704	200000	19.63	7.38	78.3	6.90	0
61704	210000	19.47	7.36	77.0	6.82	0
61704	220000	19.38	7.35	77.3	6.85	0
61704	230000	19.39	7.35	77.1	6.84	0
61804	0	19.30	7.36	76.6	6.80	0
61804	10000	19.26	7.34	76.3	6.78	0
61804	20000	19.17	7.37	75.3	6.70	0
61804	30000	19.14	7.35	75.7	6.74	0
61804	40000	19.19	7.36	76.0	6.76	0
61804	50000	19.27	7.36	76.5	6.80	0
61804	60000	19.30	7.37	76.8	6.82	0
61804	70000	19.28	7.36	76.4	6.79	0
61804	80000	19.35	7.37	76.2	6.76	0
61804	90000	19.29	7.37	76.2	6.77	0
61804	100000	19.38	7.39	76.5	6.78	0
61804	110000	19.39	7.36	76.6	6.79	0
61804	120000	19.39	7.37	76.5	6.78	0
61804	130000	19.51	7.37	77.1	6.81	0
61804	140000	19.47	7.39	77.1	6.82	0
61804	150000	19.41	7.37	76.1	6.74	0
61804	160000	19.55	7.38	77.5	6.85	0
61804	170000	19.48	7.38	76.4	6.76	0
61804	180000	19.65	7.40	78.1	6.88	0
61804	190000	19.98	7.46	80.2	7.02	0
61804	200000	20.23	7.48	81.5	7.11	0
61804	210000	20.29	7.49	81.9	7.13	0
61804	220000	20.24	7.47	80.9	7.05	0
61804	230000	20.45	7.49	81.2	7.05	0
61904	0	20.41	7.50	82.4	7.12	0
61904	10000	20.19	7.49	80.5	7.02	0
61904	20000	20.21	7.52	80.8	7.05	0
61904	30000	20.07	7.52	80.4	7.03	0
61904	40000	20.03	7.53	80.6	7.05	0
61904	50000	19.77	7.48	79.0	6.95	0
61904	60000	19.67	7.45	77.9	6.87	0
61904	70000	19.51	7.42	76.0	6.72	0
61904	80000	19.52	7.46	77.2	6.83	0
61904	90000	19.51	7.45	78.3	6.92	0
61904	100000	19.55	7.48	77.9	6.88	0
61904	110000	19.51	7.49	76.7	6.78	0
61904	120000	19.50	7.49	76.8	6.79	0
61904	130000	19.40	7.45	76.8	6.80	0
61904	140000	19.49	7.46	76.6	6.77	0
61904	150000	19.42	7.47	76.0	6.73	0
61904	160000	19.54	7.47	76.5	6.76	0

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61904	170000	19.59	7.48	76.7	6.77	0
61904	180000	19.58	7.50	76.6	6.76	0
61904	190000	19.51	7.51	75.9	6.71	0
61904	200000	19.45	7.47	75.4	6.68	0
61904	210000	19.33	7.42	74.4	6.60	0
61904	220000	19.16	7.42	72.8	6.48	0
61904	230000	19.07	7.42	72.3	6.45	0
62004	0	18.94	7.39	72.0	6.44	0
62004	10000	18.91	7.39	71.5	6.40	0
62004	20000	18.88	7.39	71.0	6.36	0
62004	30000	18.83	7.42	70.8	6.35	0
62004	40000	18.81	7.40	70.3	6.30	0
62004	50000	18.80	7.39	70.4	6.32	0
62004	60000	18.83	7.39	70.7	6.33	0
62004	70000	18.83	7.37	70.2	6.29	0
62004	80000	18.88	7.43	70.9	6.34	0
62004	90000	18.93	7.40	71.3	6.37	0
62004	100000	18.93	7.39	70.9	6.34	0
62004	110000	18.95	7.40	71.2	6.36	0
62004	120000	19.08	7.43	72.3	6.45	0
62004	130000	19.01	7.42	71.8	6.41	0
62004	140000	18.78	7.39	70.2	6.30	0
62004	150000	18.66	7.38	69.1	6.21	0
62004	160000	18.66	7.39	69.0	6.20	0
62004	170000	18.63	7.39	69.0	6.21	0
62004	180000	18.48	7.38	67.9	6.13	0
62004	190000	18.57	7.38	68.6	6.18	0
62004	200000	18.51	7.37	67.7	6.11	0
62004	210000	18.57	7.40	68.4	6.16	0
62004	220000	18.64	7.38	69.1	6.22	0
62004	230000	18.76	7.40	69.7	6.26	0
62104	0	18.85	7.43	70.8	6.34	0
62104	10000	18.95	7.42	71.7	6.42	0
62104	20000	19.01	7.43	72.2	6.45	0
62104	30000	19.12	7.44	73.3	6.53	0
62104	40000	19.13	7.45	73.3	6.53	0
62104	50000	19.21	7.45	74.5	6.62	0
62104	60000	19.24	7.46	74.5	6.65	0
62104	70000	19.27	7.47	75.4	6.70	0
62104	80000	19.30	7.48	75.6	6.71	0
62104	90000	19.35	7.50	75.4	6.69	0
62104	100000	19.41	7.50	75.8	6.71	0
62104	110000	19.40	7.56	76.3	6.74	0
62104	120000	19.27	7.49	75.1	6.67	0
62104	130000	19.21	7.50	74.4	6.62	0
62104	140000	19.15	7.50	73.2	6.52	0
62104	150000	19.10	7.47	72.4	6.45	0
62104	160000	18.99	7.43	70.6	6.30	0
62104	170000	18.96	7.43	70.2	6.28	0
62104	180000	18.90	7.41	69.2	6.19	0
62104	190000	18.85	7.46	70.1	6.28	0

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62104	200000	19.15	7.41	71.4	6.36	0
62104	210000	19.11	7.46	71.5	6.37	0
62104	220000	19.20	7.45	71.7	6.38	0
62104	230000	19.25	7.43	72.8	6.47	0
62204	0	19.29	7.43	72.6	6.45	0
62204	10000	19.39	7.49	74.3	6.58	0
62204	20000	19.45	7.49	74.5	6.59	0
62204	30000	19.47	7.49	75.5	6.68	0
62204	40000	19.48	7.52	76.6	6.78	0
62204	50000	19.49	7.51	76.5	6.77	0
62204	60000	19.48	7.53	76.6	6.78	0
62204	70000	19.47	7.52	77.0	6.81	0
62204	80000	19.52	7.57	77.6	6.86	0
62204	90000	19.61	7.55	78.7	6.94	0
62204	100000	19.67	7.55	79.0	6.96	0
62204	110000	19.68	7.58	78.3	6.90	0
62204	120000	19.72	7.57	78.3	6.89	0
62204	130000	19.84	7.58	78.9	6.93	0
62204	140000	19.75	7.56	77.9	6.85	0
62204	150000	19.69	7.62	77.6	6.83	0
62204	160000	19.69	7.56	77.2	6.80	0
62204	170000	19.68	7.60	76.9	6.78	0
62204	180000	19.51	7.54	75.2	6.65	0
62204	190000	19.44	7.55	74.1	6.56	0
62204	200000	19.30	7.49	72.6	6.44	0
62204	210000	19.32	7.54	72.6	6.45	0
62204	220000	19.14	7.50	70.6	6.29	0
62204	230000	19.14	7.50	70.8	6.30	0
62304	0	19.16	7.51	71.3	6.35	0
62304	10000	19.16	7.49	71.2	6.34	0
62304	20000	19.21	7.50	71.4	6.35	0
62304	30000	19.22	7.52	71.4	6.35	0
62304	40000	19.26	7.54	73.1	6.49	0
62304	50000	19.38	7.56	74.3	6.59	0
62304	60000	19.39	7.59	74.8	6.63	0
62304	70000	19.39	7.66	75.1	6.65	0
62304	80000	19.42	7.59	75.8	6.71	0
62304	90000	19.51	7.71	77.4	6.84	0
62304	100000	19.64	7.63	77.8	6.86	0
62304	110000	19.83	7.64	78.7	6.91	0
62304	120000	19.98	7.67	80.3	7.03	0
62304	130000	19.87	7.64	78.7	6.91	0
62304	140000	19.78	7.64	78.3	6.88	0
62304	150000	19.71	7.63	77.4	6.82	0
62304	160000	19.67	7.64	77.1	6.80	0
62304	170000	19.72	7.62	76.7	6.75	0
62304	180000	19.62	7.61	75.5	6.66	0
62304	190000	19.50	7.67	73.9	6.54	0
62304	200000	19.37	7.56	72.5	6.42	0
62304	210000	19.29	7.54	72.3	6.42	0
62304	220000	19.49	7.65	76.3	6.74	0

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62304	230000	19.54	7.68	77.8	6.87	0	
62404	0	19.65	7.71	80.0	7.06	0	
62404	10000	19.61	7.71	79.3	7.00	0	
62404	20000	19.57	7.72	79.0	6.97	0	
62404	30000	19.54	7.72	78.8	6.96	0	
62404	40000	19.49	7.71	79.3	7.02	0	
62404	50000	19.43	7.71	78.3	6.93	0	
62404	60000	19.37	7.69	77.4	6.86	0	
62404	70000	19.33	7.70	77.5	6.88	0	
62404	80000	19.30	7.71	77.4	6.87	0	
62404	90000	19.32	7.71	77.6	6.89	0	
62404	100000	19.29	7.42	83.4	7.51	0	
62404	110000	19.28	7.37	85.9	7.75	0	
62404	120000	19.21	7.38	86.2	7.78	0	
62404	130000	19.32	7.43	89.8	8.09	0	
62404	140000	19.35	7.46	92.4	8.32	0	
62404	150000	19.48	7.53	95.7	8.60	0	
62404	160000	19.57	7.51	96.0	8.61	0	
62404	170000	19.68	7.49	95.9	8.57	0	
62404	180000	19.67	7.49	96.0	8.59	0	
62404	190000	19.64	7.51	95.7	8.57	0	
62404	200000	19.58	7.51	95.3	8.47	0	
62404	210000	19.51	7.54	94.3	8.46	0	
62404	220000	19.45	7.54	94.1	8.46	0	
62404	230000	19.37	7.57	93.1	8.38	0	
62504	0	19.29	7.52	93.1	8.39	0	
62504	10000	19.23	7.52	93.0	8.39	0	
62504	20000	19.20	7.52	92.6	8.36	0	
62504	30000	19.19	7.51	92.1	8.32	0	
62504	40000	19.15	7.51	92.6	8.37	0	
62504	50000	19.09	7.52	91.5	8.28	0	
62504	60000	19.05	7.55	90.8	8.23	0	
62504	70000	19.00	7.47	90.0	8.16	0	
62504	80000	19.02	7.51	89.8	8.14	0	
62504	90000	19.04	7.50	88.9	8.05	0	
62504	100000	19.10	7.49	89.0	8.05	0	
62504	110000	19.07	7.52	88.4	8.00	0	
62504	120000	19.06	7.49	87.7	7.94	0	
62504	130000	18.99	7.48	86.8	7.87	0	
62504	140000	18.92	7.45	84.4	7.66	0	
62504	150000	18.86	7.43	82.1	7.46	0	
62504	160000	18.97	7.45	83.3	7.56	0	
62504	170000	19.03	7.45	83.4	7.56	0	
62504	180000	19.02	7.50	83.8	7.58	0	
62504	190000	19.08	7.58	85.7	7.75	0	
62504	200000	19.11	7.56	83.6	7.56	0	
62504	210000	19.10	7.56	81.4	7.37	0	
62504	220000	19.02	9.15	79.5	7.20	0	pH out due
62504	230000	19.01	9.24	79.2	7.18	0	to equipment
62604	0	18.98	9.23	78.7	7.17	0	malfunction
62604	10000	18.91	9.21	77.5	7.04	0	

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62604	20000	18.89	9.15	76.9	6.99	0
62604	30000	18.85	9.16	76.4	6.95	0
62604	40000	18.79	9.22	76.1	6.93	0
62604	50000	18.78	9.16	75.9	6.91	0
62604	60000	18.76	9.18	75.8	6.90	0
62604	70000	18.77	9.23	75.2	6.85	0
62604	80000	18.80	9.21	75.9	6.91	0
62604	90000	18.94	9.19	76.3	6.93	0
62604	100000	19.04	9.22	76.4	6.92	0
62604	110000	19.07	9.20	75.6	6.85	0
62604	120000	19.09	9.20	75.2	6.81	0
62604	130000	19.17	9.20	74.8	6.76	0
62604	140000	19.23	9.21	75.0	6.77	0
62604	150000	19.27	9.21	74.7	6.74	0
62604	160000	19.34	9.21	74.8	6.73	0
62604	170000	19.28	9.20	74.4	6.71	0
62604	180000	19.34	9.21	74.5	6.71	0
62604	190000	19.35	9.23	74.5	6.71	0
62604	200000	19.32	9.23	74.3	6.69	0
62604	210000	19.30	9.23	73.5	6.62	0
62604	220000	19.26	9.23	72.8	6.56	0
62604	230000	19.17	9.20	71.9	6.49	0
62704	0	19.05	9.17	70.3	6.36	0
62704	10000	18.93	9.16	69.6	6.32	0
62704	20000	18.91	9.22	69.3	6.30	0
62704	30000	18.91	9.17	69.7	6.33	0
62704	40000	18.91	9.23	69.8	6.34	0
62704	50000	18.94	9.18	70.0	6.36	0
62704	60000	18.88	9.17	70.0	6.36	0
62704	70000	18.90	9.17	71.0	6.45	0
62704	80000	18.95	9.20	70.7	6.42	0
62704	90000	18.98	9.18	70.7	6.41	0
62704	100000	19.08	9.20	71.2	6.45	0
62704	110000	19.12	9.19	71.3	6.45	0
62704	120000	19.12	9.20	71.5	6.47	0
62704	130000	19.19	9.23	72.8	6.58	0
62704	140000	19.25	9.23	73.2	6.60	0
62704	150000	19.28	9.24	73.3	6.61	0
62704	160000	19.14	9.22	71.8	6.49	0
62704	170000	19.01	9.19	70.5	6.39	0
62704	180000	18.93	9.17	69.5	6.31	0
62704	190000	19.01	9.19	70.3	6.37	0
62704	200000	18.88	9.15	68.9	6.26	0
62704	210000	18.85	9.14	68.4	6.22	0
62704	220000	18.81	9.14	68.0	6.19	0
62704	230000	18.75	9.13	67.2	6.12	0
62804	0	18.70	9.13	66.5	6.06	0
62804	10000	18.66	9.11	66.3	6.05	0
62804	20000	18.62	9.12	65.3	5.96	0
62804	30000	18.61	9.13	65.5	5.98	0
62804	40000	18.65	9.14	65.5	5.98	0

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62804	50000	18.64	9.13	66.2	6.05	0
62804	60000	18.64	9.12	66.5	6.07	0
62804	70000	18.66	9.15	67.0	6.12	0
62804	80000	18.72	9.16	67.5	6.15	0
62804	90000	18.78	9.17	67.1	6.11	0
62804	100000	18.88	9.19	68.2	6.19	0
62804	110000	19.07	9.23	70.4	6.36	0
62804	120000	19.12	9.23	70.7	6.39	0
62804	130000	19.24	9.27	72.5	6.54	0
62804	140000	19.35	9.25	71.6	6.45	0
62804	150000	19.28	9.26	71.5	6.44	0
62804	160000	19.30	9.27	72.0	6.49	0
62804	170000	19.34	9.27	72.6	6.53	0
62804	180000	19.32	9.28	72.6	6.54	0
62804	190000	19.28	9.27	71.1	6.41	0
62804	200000	19.11	9.25	69.3	6.27	0
62804	210000	19.03	9.22	68.0	6.16	0
62804	220000	18.92	9.20	66.3	6.02	0
62804	230000	18.80	9.18	65.2	5.93	0
62904	0	18.72	9.17	64.7	5.89	0
62904	10000	18.67	9.17	63.9	5.83	0
62904	20000	18.71	9.18	64.9	5.90	0
62904	30000	18.74	9.19	65.0	5.93	0
62904	40000	18.69	9.16	65.0	5.93	0
62904	50000	18.67	9.16	64.2	5.86	0
62904	60000	18.63	9.15	63.9	5.83	0
62904	70000	18.63	9.14	64.2	5.86	0
62904	80000	18.72	9.16	65.2	5.94	0
62904	90000	18.78	9.16	65.1	5.93	0
62904	100000	18.92	9.19	66.4	6.03	0
62904	110000	19.11	9.23	68.5	6.20	0
62904	120000	19.11	9.20	67.6	6.12	0
62904	130000	19.15	9.19	67.8	6.13	0
62904	140000	19.10	9.21	68.3	6.18	0
62904	150000	19.19	9.21	67.7	6.12	0
62904	160000	19.01	9.19	66.4	6.02	0
62904	170000	19.07	9.23	68.0	6.15	0
62904	180000	19.03	9.23	68.0	6.16	0
62904	190000	19.13	9.26	69.4	6.27	0
62904	200000	19.10	9.25	68.5	6.20	0
62904	210000	19.09	8.52	68.7	6.21	0
62904	220000	19.12	8.48	68.6	6.20	0
62904	230000	19.12	8.21	68.6	6.20	0
63004	0	19.07	8.10	68.0	6.16	0
63004	10000	19.08	8.03	68.0	6.15	0
63004	20000	19.04	9.14	67.1	6.08	0
63004	30000	19.02	9.18	66.7	6.04	0
63004	40000	18.97	9.17	66.3	6.01	0
63004	50000	18.96	9.09	65.6	5.95	0
63004	60000	18.94	8.34	65.6	5.95	0
63004	70000	18.96	8.59	66.1	6.00	0

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63004	80000	18.97	8.88	65.6	5.95	0
63004	90000	19.04	9.06	65.9	5.97	0
63004	100000	19.08	8.39	65.4	5.92	0
63004	110000	19.06	8.89	65.1	5.89	0
63004	120000	19.09	9.16	64.5	5.84	0
63004	130000	19.10	9.16	64.1	5.80	0
63004	140000	19.05	9.16	63.3	5.73	0
63004	150000	19.08	9.18	63.8	5.78	0
63004	160000	19.13	9.18	63.9	5.77	0
63004	170000	18.99	9.16	62.5	5.66	0
63004	180000	18.87	9.12	61.1	5.55	0
63004	190000	18.79	9.14	60.0	5.46	0
63004	200000	18.77	9.14	60.2	5.48	0
63004	210000	18.80	9.13	59.8	5.45	0
63004	220000	18.93	8.63	60.7	5.51	0
63004	230000	18.79	8.41	59.9	5.46	0
70104	0	18.94	8.22	61.3	5.57	0
70104	10000	18.98	8.10	61.5	5.58	0
70104	20000	19.19	8.11	63.9	5.77	0
70104	30000	19.16	8.21	63.6	5.75	0
70104	40000	19.27	8.05	64.5	5.82	0
70104	50000	19.45	8.14	66.1	5.94	0
70104	60000	19.55	8.22	67.5	6.05	0
70104	70000	19.66	8.14	68.9	6.16	0
70104	80000	19.69	8.17	68.8	6.16	0
70104	90000	19.73	8.13	69.4	6.20	0
70104	100000	19.69	8.04	68.5	6.13	0
70104	110000	19.72	7.08	77.0	6.88	0
70104	120000	19.83	6.97	76.3	6.81	0
70104	130000	19.90	6.89	76.6	6.82	0
70104	140000	19.92	6.92	76.8	6.84	0
70104	150000	19.81	6.89	76.4	6.82	0
70104	160000	19.82	6.97	75.7	6.76	0
70104	170000	19.57	6.96	72.9	6.53	0
70104	180000	19.41	7.06	70.4	6.33	0
70104	190000	19.23	6.98	69.4	6.27	0
70104	200000	19.15	6.95	68.6	6.20	0
70104	210000	19.12	7.12	68.3	6.18	0
70104	220000	19.15	6.95	68.2	6.17	0
70104	230000	19.28	6.96	69.7	6.29	0
70204	0	19.35	6.99	70.7	6.36	0
70204	10000	19.36	7.07	70.6	6.36	0
70204	20000	19.32	6.84	69.6	6.28	0
70204	30000	19.20	6.84	68.6	6.20	0
70204	40000	19.37	6.79	70.2	6.32	0
70204	50000	19.45	6.89	71.2	6.40	0
70204	60000	19.53	6.90	71.8	6.44	0
70204	70000	19.65	6.81	73.2	6.58	0
70204	80000	19.63	6.83	72.9	6.53	0
70204	90000	19.76	6.88	73.9	6.60	0
70204	100000	19.81	6.83	73.6	6.57	0

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70204	110000	19.83	6.89	73.4	6.55	0
70204	120000	19.79	6.77	72.8	6.50	0
70204	130000	19.77	6.76	71.7	6.40	0
70204	140000	19.69	6.79	70.8	6.34	0
70204	150000	19.58	6.68	69.7	6.25	0
70204	160000	19.42	6.81	68.4	6.15	0
70204	170000	19.34	6.71	67.1	6.05	0
70204	180000	19.22	6.68	66.4	6.00	0
70204	190000	19.12	6.62	65.3	5.91	0
70204	200000	19.08	6.58	65.0	5.89	0
70204	210000	19.08	6.70	64.9	5.88	0
70204	220000	19.13	6.66	65.1	5.89	0
70204	230000	19.21	6.71	66.2	5.98	0
70304	0	19.29	6.88	67.1	6.06	0
70304	10000	19.34	6.69	67.4	6.07	0
70304	20000	19.38	6.68	67.9	6.11	0
70304	30000	19.41	6.64	68.3	6.15	0
70304	40000	19.46	6.67	68.4	6.15	0
70304	50000	19.49	6.72	68.5	6.15	0
70304	60000	19.48	6.80	68.4	6.15	0
70304	70000	19.50	6.78	68.4	6.14	0
70304	80000	19.58	6.80	68.7	6.16	0
70304	90000	19.61	6.87	67.7	6.07	0
70304	100000	19.63	6.81	67.3	6.02	0
70304	110000	19.66	6.81	67.5	6.05	0
70304	120000	19.68	6.80	67.4	6.03	0
70304	130000	19.66	6.86	67.4	6.03	0
70304	140000	19.60	6.84	66.4	5.95	0
70304	150000	19.44	6.78	64.6	5.81	0
70304	160000	19.35	6.50	63.7	5.74	0
70304	170000	19.29	6.65	62.8	5.67	0
70304	180000	19.24	6.77	62.7	5.66	0
70304	190000	19.28	6.76	63.1	5.69	0
70304	200000	19.25	6.76	62.1	5.61	0
70304	210000	19.28	6.71	62.5	5.64	0
70304	220000	19.30	6.72	62.6	5.64	0
70304	230000	19.43	6.73	63.2	5.69	0
70404	0	19.57	6.80	65.0	5.82	0
70404	10000	19.72	6.87	66.8	5.97	0
70404	20000	19.80	6.98	67.4	6.02	0
70404	30000	19.85	6.91	66.9	5.97	0
70404	40000	19.91	6.94	67.2	5.98	0
70404	50000	19.98	7.00	68.1	6.06	0
70404	60000	20.07	6.90	69.5	6.17	0
70404	70000	20.22	6.87	71.1	6.29	0
70404	80000	20.31	6.90	72.3	6.39	0
70404	90000	20.31	7.00	72.1	6.37	0
70404	100000	20.31	6.94	72.7	6.42	0
70404	110000	20.33	6.76	72.8	6.43	0
70404	120000	20.38	6.94	73.2	6.46	0
70404	130000	20.28	6.96	71.9	6.36	0

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70404	140000	20.34	6.91	72.4	6.39	0
70404	150000	20.26	6.79	70.9	6.27	0
70404	160000	20.13	6.76	69.7	6.18	0
70404	170000	20.00	6.71	68.5	6.09	0
70404	180000	19.99	6.61	68.3	6.08	0
70404	190000	20.30	6.56	71.7	6.34	0
70404	200000	20.43	6.69	73.2	6.46	0
70404	210000	20.36	6.65	72.3	6.39	0
70404	220000	20.32	6.60	71.2	6.29	0
70404	230000	20.41	6.43	72.5	6.40	0
70504	0	20.46	6.65	73.2	6.45	0
70504	10000	20.42	6.81	72.8	6.42	0
70504	20000	20.37	6.77	72.5	6.40	0
70504	30000	20.23	6.77	72.0	6.37	0
70504	40000	20.22	6.88	72.2	6.39	0
70504	50000	20.27	6.78	72.5	6.41	0
70504	60000	20.34	6.60	74.2	6.56	0
70504	70000	20.34	6.51	74.2	6.55	0
70504	80000	20.41	6.85	75.4	6.65	0
70504	90000	20.40	6.67	75.3	6.64	0
70504	100000	20.42	6.57	75.6	6.67	0
70504	110000	20.53	6.64	75.4	6.63	0
70504	120000	20.43	6.53	73.7	6.50	0
70504	130000	20.37	6.50	72.1	6.36	0
70504	140000	20.24	6.47	70.2	6.21	0
70504	150000	20.14	6.53	69.7	6.18	0
70504	160000	20.04	6.41	68.7	6.11	0
70504	170000	20.07	6.27	68.4	6.08	0
70504	180000	19.88	6.24	65.7	5.86	0
70504	190000	19.75	6.23	64.8	5.79	0
70504	200000	19.67	6.26	63.9	5.72	0
70504	210000	19.61	6.35	63.3	5.67	0
70504	220000	19.60	6.46	63.5	5.69	0
70504	230000	19.60	6.54	63.8	5.71	0
70604	0	19.63	6.57	64.0	5.73	0
70604	10000	19.61	6.57	64.4	5.77	0
70604	20000	19.66	6.56	65.2	5.83	0
70604	30000	19.72	6.63	66.9	5.98	0
70604	40000	19.74	6.52	66.2	5.92	0
70604	50000	19.66	6.39	67.6	6.03	0
70604	60000	19.69	6.47	68.4	6.09	0
70604	70000	20.06	6.63	70.7	6.28	0
70604	80000	20.12	6.70	72.0	6.39	0
70604	90000	20.14	6.70	72.5	6.43	0
70604	100000	20.14	6.64	72.9	6.46	0
70604	110000	20.17	6.74	73.5	6.51	0
70604	120000	20.16	6.77	73.7	6.53	0
70604	130000	20.18	6.69	73.7	6.53	0
70604	140000	20.16	6.59	73.3	6.50	0
70604	150000	20.12	6.59	73.3	6.50	0
70604	160000	20.10	6.66	72.5	6.44	0

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70604	170000	20.05	6.68	72.2	6.41	0
70604	180000	20.02	6.76	72.1	6.41	0
70604	190000	20.00	6.90	71.9	6.40	0
70604	200000	19.99	6.82	72.5	6.45	0
70604	210000	19.97	6.88	73.0	6.50	0
70604	220000	19.92	6.91	72.0	6.41	0
70604	230000	19.86	6.76	71.9	6.41	0
70704	0	19.82	6.72	71.4	6.37	0
70704	10000	19.77	6.55	71.4	6.37	0
70704	20000	19.72	6.59	70.9	6.34	0
70704	30000	19.68	6.81	70.3	6.29	0
70704	40000	19.67	6.78	70.6	6.32	0
70704	50000	19.63	6.71	71.4	6.39	0
70704	60000	19.60	6.82	70.1	6.28	0
70704	70000	19.54	6.74	69.4	6.22	0
70704	80000	19.51	6.73	68.7	6.17	0
70704	90000	19.50	6.78	70.4	6.32	0
70704	100000	19.50	6.73	70.3	6.31	0
70704	110000	19.53	6.67	71.2	6.39	0
70704	120000	19.58	6.80	71.6	6.42	0
70704	130000	19.60	6.75	71.5	6.41	0
70704	140000	19.62	6.94	72.3	6.48	0
70704	150000	19.62	6.83	72.7	6.51	0
70704	160000	19.63	6.93	74.0	6.63	0
70704	170000	19.64	6.84	73.8	6.61	0
70704	180000	19.62	6.91	74.3	6.66	0
70704	190000	19.58	6.84	73.7	6.61	0
70704	200000	19.55	6.74	73.3	6.58	0
70704	210000	19.49	6.82	72.4	6.50	0
70704	220000	19.42	6.73	71.1	6.39	0
70704	230000	19.34	6.76	70.3	6.33	0
70804	0	19.27	6.75	69.9	6.30	0
70804	10000	19.24	6.86	69.6	6.28	0
70804	20000	19.20	6.84	69.9	6.31	0
70804	30000	19.16	6.79	69.3	6.26	0
70804	40000	19.10	6.74	69.2	6.26	0
70804	50000	19.04	6.75	70.0	6.34	0
70804	60000	19.01	6.68	70.0	6.35	0
70804	70000	18.98	6.85	71.1	6.45	0
70804	80000	19.00	6.95	72.2	6.55	0
70804	90000	19.02	7.02	73.5	6.66	0
70804	100000	19.07	7.05	74.2	6.72	0
70804	110000	19.10	6.98	74.0	6.70	0
70804	120000	19.14	6.95	74.5	6.74	0
70804	130000	19.32	6.88	75.9	6.84	0
70804	140000	19.34	6.84	76.0	6.85	0
70804	150000	19.34	6.55	75.9	6.84	0
70804	160000	19.32	6.50	75.7	6.82	0
70804	170000	19.29	6.57	75.2	6.78	0
70804	180000	19.21	6.48	73.6	6.65	0
70804	190000	19.19	6.55	73.5	6.64	0

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70804	200000	19.13	6.48	71.9	6.51	0
70804	210000	19.09	6.42	72.5	6.57	0
70804	220000	19.07	6.42	72.4	6.56	0
70804	230000	19.01	6.38	71.2	6.46	0
70904	0	18.93	6.31	70.4	6.40	0
70904	10000	18.87	6.25	69.6	6.33	0
70904	20000	18.82	6.31	68.9	6.27	0
70904	30000	18.79	6.30	68.8	6.27	0
70904	40000	18.76	6.51	68.0	6.20	0
70904	50000	18.72	6.36	68.9	6.29	0
70904	60000	18.69	6.33	68.0	6.21	0
70904	70000	18.69	6.36	67.9	6.20	0
70904	80000	18.72	6.26	67.0	6.11	0
70904	90000	18.77	6.28	67.2	6.12	0
70904	100000	18.79	6.44	67.0	6.11	0
70904	110000	18.87	6.50	66.9	6.08	0
70904	120000	18.78	6.53	66.7	6.07	0
70904	130000	18.79	6.57	66.8	6.08	0
70904	140000	18.78	7.52	70.3	6.37	0
70904	150000	18.71	7.50	69.0	6.26	0
70904	160000	18.68	7.39	67.6	6.14	0
70904	170000	18.67	7.42	67.2	6.11	0
70904	180000	18.69	7.38	66.7	6.06	0
70904	190000	18.60	7.36	65.5	5.96	0
70904	200000	18.53	7.36	64.3	5.86	0
70904	210000	18.49	7.34	64.1	5.85	0
70904	220000	18.49	7.38	64.3	5.86	0
70904	230000	18.46	7.35	63.9	5.83	0
71004	0	18.46	7.43	64.5	5.88	0
71004	10000	18.46	7.37	64.8	5.92	0
71004	20000	18.47	7.38	64.8	5.92	0
71004	30000	18.45	7.43	64.3	5.87	0
71004	40000	18.42	7.41	64.3	5.87	0
71004	50000	18.44	7.45	65.2	5.96	0
71004	60000	18.43	7.45	65.6	5.99	0
71004	70000	18.47	7.48	66.9	6.10	0
71004	80000	18.57	7.49	69.4	6.32	0
71004	90000	18.79	7.56	71.6	6.49	0
71004	100000	19.05	7.60	72.8	6.56	0
71004	110000	19.06	7.55	71.9	6.48	0
71004	120000	19.00	7.59	70.6	6.38	0
71004	130000	19.00	7.61	71.2	6.42	0
71004	140000	18.96	7.57	71.8	6.49	0
71004	150000	18.98	7.59	72.1	6.51	0
71004	160000	19.00	7.67	72.1	6.51	0
71004	170000	18.87	7.59	71.0	6.43	0
71004	180000	18.80	7.63	70.1	6.36	0
71004	190000	18.70	7.61	68.0	6.18	0
71004	200000	18.67	7.61	67.7	6.16	0
71004	210000	18.59	7.55	65.2	5.94	0
71004	220000	18.60	7.59	65.1	5.92	0

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71004	230000	18.58	7.64	64.3	5.85	0
71104	0	18.55	7.63	63.8	5.81	0
71104	10000	18.55	7.61	64.0	5.83	0
71104	20000	18.55	7.57	64.0	5.83	0
71104	30000	18.62	7.64	64.8	5.90	0
71104	40000	18.68	7.61	66.1	6.00	0
71104	50000	18.68	7.68	66.2	6.02	0
71104	60000	18.71	7.67	67.6	6.14	0
71104	70000	18.76	7.71	68.7	6.23	0
71104	80000	18.80	7.68	68.8	6.24	0
71104	90000	18.79	7.67	69.0	6.26	0
71104	100000	18.82	7.69	68.8	6.23	0
71104	110000	18.83	7.67	67.8	6.14	0
71104	120000	18.85	7.68	67.7	6.13	0
71104	130000	18.78	7.65	65.7	5.95	0
71104	140000	18.68	7.66	64.3	5.85	0
71104	150000	18.65	7.70	64.9	5.90	0
71104	160000	18.69	7.70	65.6	5.96	0
71104	170000	18.68	7.69	65.4	5.95	0
71104	180000	18.71	7.64	65.3	5.93	0
71104	190000	18.72	7.66	65.2	5.92	0
71104	200000	18.76	7.74	65.8	5.97	0
71104	210000	18.81	7.69	66.8	6.05	0
71104	220000	18.87	7.71	67.4	6.10	0
71104	230000	18.96	7.77	68.7	6.21	0
71204	0	19.02	7.73	68.3	6.17	0
71204	10000	19.01	7.79	68.3	6.16	0
71204	20000	19.08	7.78	68.6	6.16	0
71204	30000	19.11	7.76	69.2	6.23	0
71204	40000	19.17	7.81	69.0	6.21	0
71204	50000	19.17	7.85	69.2	6.22	0
71204	60000	19.18	7.82	70.0	6.29	0
71204	70000	19.27	7.88	70.6	6.34	0
71204	80000	19.25	7.82	70.3	6.31	0
71204	90000	19.18	7.83	69.1	6.21	0
71204	100000	19.19	7.81	69.2	6.22	0
71204	110000	19.18	7.80	68.4	6.15	0
71204	120000	19.24	7.79	68.3	6.14	0
71204	130000	19.21	7.82	68.5	6.16	0
71204	140000	19.13	7.79	66.9	6.03	0
71204	150000	19.10	7.75	66.0	5.95	0
71204	160000	19.04	7.76	65.2	5.89	0
71204	170000	18.96	7.74	65.3	5.90	0
71204	180000	18.87	7.80	64.9	5.88	0
71204	190000	18.75	7.80	64.0	5.81	0
71204	200000	18.75	7.80	63.5	5.76	0
71204	210000	18.75	7.84	63.6	5.78	0
71204	220000	18.70	7.79	63.7	5.78	0
71204	230000	18.72	7.85	63.4	5.76	0
71304	0	18.79	7.78	64.7	5.86	0
71304	10000	18.81	7.82	64.2	5.81	0

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71304	20000	18.85	7.85	64.7	5.86	0
71304	30000	18.93	7.86	65.3	5.90	0
71304	40000	18.83	7.82	63.7	5.77	0
71304	50000	18.83	7.82	63.9	5.78	0
71304	60000	18.86	7.82	63.6	5.78	0
71304	70000	18.86	7.81	63.6	5.76	0
71304	80000	18.92	7.84	64.1	5.80	0
71304	90000	18.96	7.85	64.5	5.81	0
71304	100000	18.89	7.80	64.1	5.80	0
71304	110000	19.04	7.87	65.6	5.91	0
71304	120000	19.06	7.86	64.1	5.78	0
71304	130000	19.14	7.82	64.5	5.81	0
71304	140000	19.09	7.83	64.4	5.81	0
71304	150000	18.82	7.82	64.4	5.84	0
71304	160000	19.15	7.78	65.6	5.90	0
71304	170000	19.25	7.82	65.3	5.88	0
71304	180000	19.55	7.86	66.7	5.96	0
71304	190000	19.54	7.86	67.3	6.01	0
71304	200000	19.58	7.89	67.0	5.98	0
71304	210000	19.76	7.92	68.1	6.06	0
71304	220000	19.72	7.91	67.1	5.97	0
71304	230000	19.46	7.88	65.8	5.88	0
71404	0	19.33	7.87	64.8	5.82	0
71404	10000	19.30	7.85	64.1	5.75	0
71404	20000	19.28	7.84	64.0	5.75	0
71404	30000	19.27	7.84	63.8	5.73	0
71404	40000	19.36	7.87	65.2	5.84	0
71404	50000	19.48	7.87	65.8	5.88	0
71404	60000	19.61	7.93	66.8	5.96	0
71404	70000	19.72	7.86	68.3	6.08	0
71404	80000	19.98	7.96	70.5	6.24	0
71404	90000	20.32	7.99	73.4	6.46	0
71404	100000	20.63	8.12	75.8	6.63	0
71404	110000	20.95	8.12	78.5	6.82	0
71404	120000	21.09	8.10	78.8	6.83	0
71404	130000	21.13	8.17	78.3	6.77	0
71404	140000	21.25	8.10	78.7	6.79	0
71404	150000	21.39	8.14	79.5	6.84	0
71404	160000	21.59	8.17	80.7	6.92	0
71404	170000	21.54	8.16	80.7	6.93	0
71404	180000	21.40	8.14	79.8	6.87	0
71404	190000	20.98	8.10	76.1	6.60	0
71404	200000	20.54	8.04	71.9	6.29	0
71404	210000	20.23	7.98	69.8	6.15	0
71404	220000	20.01	7.91	67.5	5.97	0
71404	230000	19.77	7.85	65.0	5.78	0
71504	0	19.53	7.87	62.8	5.61	0
71504	10000	19.40	7.82	60.8	5.45	0
71504	20000	19.27	7.81	60.6	5.44	0
71504	30000	19.20	7.78	59.6	5.35	0
71504	40000	19.14	7.76	59.5	5.35	0

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71504	50000	19.09	7.80	59.2	5.32	0
71504	60000	19.13	7.79	59.3	5.34	0
71504	70000	19.22	7.85	60.1	5.41	0
71504	80000	19.36	7.81	61.3	5.49	0
71504	90000	19.49	7.79	62.9	5.62	0
71504	100000	19.69	7.80	64.0	5.70	0
71504	110000	19.85	7.87	64.6	5.73	0
71504	120000	19.88	7.85	65.3	5.79	0
71504	130000	19.98	7.92	65.3	5.78	0
71504	140000	20.07	7.82	65.9	5.82	0
71504	150000	20.09	7.83	66.2	5.85	0
71504	160000	20.04	7.85	65.5	5.79	0
71504	170000	20.12	7.86	65.6	5.79	0
71504	180000	20.04	7.86	65.6	5.77	0
71504	190000	19.94	7.84	65.1	5.76	0
71504	200000	19.85	7.85	63.8	5.67	0
71504	210000	19.67	7.83	62.0	5.52	0
71504	220000	19.53	7.89	61.1	5.45	0
71504	230000	19.43	7.78	59.7	5.36	0
71604	0	19.39	7.88	59.7	5.35	0
71604	10000	19.42	7.82	60.0	5.37	0
71604	20000	19.43	7.83	60.2	5.39	0
71604	30000	19.45	7.92	60.5	5.41	0
71604	40000	19.51	7.82	60.1	5.37	0
71604	50000	19.69	7.84	61.6	5.48	0
71604	60000	19.78	7.83	62.2	5.53	0
71604	70000	19.92	7.86	62.8	5.57	0
71604	80000	19.99	7.87	63.8	5.65	0
71604	90000	19.99	7.87	63.5	5.68	0
71604	100000	20.18	7.95	65.0	5.73	0
71604	110000	20.36	7.87	66.5	5.85	0
71604	120000	20.56	7.88	68.8	6.02	0
71604	130000	20.43	7.88	66.8	5.86	0
71604	140000	20.61	7.89	67.8	5.93	0
71604	150000	20.16	7.83	64.8	5.72	0
71604	160000	20.31	7.85	65.6	5.77	0
71604	170000	20.31	7.86	65.2	5.74	0
71604	180000	20.22	7.86	64.4	5.67	0
71604	190000	20.19	7.86	64.3	5.67	0
71604	200000	20.19	7.89	64.2	5.66	0
71604	210000	20.15	7.87	64.1	5.66	0
71604	220000	20.40	7.90	66.0	5.79	0
71604	230000	20.51	7.91	66.8	5.85	0
71704	0	20.42	7.91	65.9	5.78	0
71704	10000	20.30	7.97	65.2	5.74	0
71704	20000	20.21	7.88	64.6	5.69	0
71704	30000	20.01	7.86	63.8	5.64	0
71704	40000	19.88	7.97	62.2	5.52	0
71704	50000	19.96	7.91	62.3	5.51	0
71704	60000	20.12	7.96	64.1	5.66	0
71704	70000	20.29	7.98	65.2	5.74	0

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71704	80000	20.48	8.00	67.1	5.88	0
71704	90000	20.60	8.02	68.0	5.94	0
71704	100000	20.84	8.08	69.6	6.06	0
71704	110000	21.08	8.16	71.1	6.16	0
71704	120000	21.24	8.11	71.0	6.13	0
71704	130000	21.32	8.06	71.4	6.16	0
71704	140000	21.37	8.08	71.8	6.19	0
71704	150000	21.40	8.11	71.4	6.14	0
71704	160000	21.36	8.04	70.7	6.09	0
71704	170000	21.19	8.01	69.4	6.00	0
71704	180000	20.93	7.97	67.4	5.85	0
71704	190000	20.74	7.95	65.9	5.74	0
71704	200000	20.38	7.97	63.3	5.56	0
71704	210000	20.19	7.92	61.4	5.41	0
71704	220000	19.96	7.91	60.0	5.31	0
71704	230000	19.83	7.86	58.9	5.23	0
71804	0	19.63	7.84	57.1	5.09	0
71804	10000	19.53	7.84	56.7	5.07	0
71804	20000	19.58	7.85	56.6	5.05	0
71804	30000	19.54	7.86	56.8	5.07	0
71804	40000	19.51	7.86	56.5	5.05	0
71804	50000	19.55	7.85	56.7	5.06	0
71804	60000	19.65	7.92	57.9	5.15	0
71804	70000	19.77	7.92	58.4	5.19	0
71804	80000	19.90	7.91	59.5	5.27	0
71804	90000	20.05	7.95	60.6	5.35	0
71804	100000	20.13	7.92	60.6	5.35	0
71804	110000	20.26	7.91	60.7	5.35	0
71804	120000	20.39	7.97	61.5	5.40	0
71804	130000	20.36	7.90	61.3	5.39	0
71804	140000	20.37	7.91	61.9	5.44	0
71804	150000	20.37	7.91	61.5	5.40	0
71804	160000	20.30	7.91	61.0	5.34	0
71804	170000	20.19	7.90	60.2	5.31	0
71804	180000	20.08	7.88	59.6	5.26	0
71804	190000	20.01	7.88	58.9	5.21	0
71804	200000	19.91	7.94	58.0	5.14	0
71804	210000	19.91	7.87	57.2	5.07	0
71804	220000	19.92	7.92	57.7	5.12	0
71804	230000	19.93	7.88	57.4	5.08	0
71904	0	19.93	7.95	58.1	5.15	0
71904	10000	20.01	7.94	58.0	5.13	0
71904	20000	20.01	7.90	58.2	5.15	0
71904	30000	20.02	7.93	58.9	5.21	0
71904	40000	20.03	7.89	58.5	5.18	0
71904	50000	20.06	7.90	58.8	5.20	0
71904	60000	20.06	7.94	58.7	5.18	0
71904	70000	20.07	7.94	59.5	5.26	0
71904	80000	20.00	7.92	59.0	5.22	0
71904	90000	20.03	7.93	59.1	5.22	0
71904	100000	20.05	7.89	58.8	5.20	0

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71904	110000	20.07	7.33	69.8	6.31	0
71904	120000	20.11	7.39	70.9	6.41	0
71904	130000	20.06	7.37	70.9	6.42	0
71904	140000	20.15	7.38	72.1	6.52	0
71904	150000	20.01	7.34	71.7	6.51	0
71904	160000	20.02	7.37	71.8	6.52	0
71904	170000	20.08	7.33	71.8	6.52	0
71904	180000	20.14	7.43	73.1	6.63	0
71904	190000	20.17	7.43	72.4	6.56	0
71904	200000	19.98	7.32	71.1	6.48	0
71904	210000	20.57	7.46	77.2	6.94	0
71904	220000	20.17	7.44	72.6	6.59	0
71904	230000	20.59	7.38	75.3	6.79	0
72004	0	20.85	7.42	76.6	6.87	0
72004	10000	20.86	7.43	76.2	6.85	0
72004	20000	20.63	7.40	74.4	6.71	0
72004	30000	20.15	7.30	69.6	6.34	0
72004	40000	19.93	7.38	68.1	6.23	0
72004	50000	19.95	7.33	68	6.23	0
72004	60000	20.05	7.31	69.5	6.35	0
72004	70000	20.25	7.41	70.8	6.46	0
72004	80000	20.37	7.47	71.2	6.48	0
72004	90000	21.26	7.69	76.3	7.00	0
72004	100000	20.43	7.49	69.9	6.36	0
72004	110000	20.40	7.39	68.5	6.24	0
72004	120000	20.49	7.39	68.4	6.22	0
72004	130000	20.61	7.37	68.8	6.25	0
72004	140000	20.74	7.41	67.9	6.15	0
72004	150000	20.69	7.46	66	5.99	17
72004	160000	20.44	7.38	63	5.76	36
72004	170000	20.17	7.36	60	5.52	0
72004	180000	20.20	7.38	59	5.44	0
72004	190000	20.16	7.35	57.9	5.34	0
72004	200000	20.06	7.36	56.1	5.19	0
72004	210000	20.07	7.38	54.9	5.09	0
72004	220000	21.02	7.62	65.8	5.97	0
72004	230000	21.01	7.62	65.4	5.92	108
72104	0	20.98	7.62	64.4	5.86	150
72104	10000	21.16	7.68	65.5	5.94	108
72104	20000	21.25	7.65	65.2	5.90	108
72104	30000	21.36	7.69	65.7	5.95	108
72104	40000	21.11	7.56	62.9	5.72	108
72104	50000	21.19	7.62	63.1	5.74	108
72104	60000	21.00	7.61	62.9	5.75	108
72104	70000	20.99	7.57	61.9	5.65	134
72104	80000	20.98	7.56	62.9	5.76	135
72104	90000	21.01	7.56	63.6	5.82	135
72104	100000	20.91	7.51	61.7	5.65	90
72104	110000	20.95	8.77	62.6	5.75	54
72104	120000	20.91	8.16	61	5.61	54
72104	130000	20.72	7.94	60	5.54	54

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72104	140000	20.78	7.81	64.4	5.93	54
72104	150000	20.82	7.71	63.1	5.81	54
72104	160000	20.74	7.62	61.3	5.65	54
72104	170000	20.73	7.63	64.2	5.93	54
72104	180000	20.74	7.60	61.3	5.67	54
72104	190000	20.90	7.63	61.8	5.70	54
72104	200000	20.93	7.58	61.1	5.64	54
72104	210000	20.74	7.49	59.3	5.50	54
72104	220000	20.69	7.49	61.1	5.67	54
72104	230000	20.81	7.50	60.9	5.65	54
72204	0	21.26	7.56	62.2	5.69	54
72204	10000	21.46	7.62	63.8	5.83	54
72204	20000	21.21	7.57	61.4	5.66	54
72204	30000	21.42	7.68	63.8	5.84	54
72204	40000	21.48	7.72	62.8	5.76	54
72204	50000	21.20	7.58	63.3	5.84	54
72204	60000	21.34	7.57	62.4	5.76	54
72204	70000	21.31	7.55	60.9	5.62	54
72204	80000	21.54	7.59	63.7	5.84	54
72204	90000	21.82	7.63	65.6	5.96	54
72204	100000	22.11	7.64	66.5	6.03	54
72204	110000	22.75	7.77	68.2	6.11	54
72204	120000	22.68	7.71	68.7	6.17	54
72204	130000	22.60	7.63	65.6	5.92	54
72204	140000	22.62	7.62	65.6	5.92	54
72204	150000	22.64	7.63	66.4	5.99	54
72204	160000	22.86	7.68	67.3	6.04	54
72204	170000	22.46	7.61	65.9	5.98	54
72204	180000	22.80	7.68	67.6	6.08	54
72204	190000	22.82	7.72	68.8	6.19	54
72204	200000	22.40	7.62	66.4	6.03	54
72204	210000	22.22	7.56	64	5.86	54
72204	220000	22.50	7.63	64.9	5.88	54
72204	230000	22.19	7.59	63	5.77	54
72304	0	21.85	7.53	63.4	5.85	54
72304	10000	21.50	7.49	61.7	5.73	54
72304	20000	21.08	7.43	59.1	5.56	54
72304	30000	21.38	7.46	59.4	5.56	54
72304	40000	21.55	7.54	62.3	5.79	54
72304	50000	21.39	7.53	61.3	5.73	54
72304	60000	21.10	7.51	61.9	5.81	54
72304	70000	21.63	7.58	63.1	5.81	54
72304	80000	21.57	7.57	62.2	5.80	54
72304	90000	21.84	7.62	66.6	6.16	54
72304	100000	21.66	8.41	64.3	6.02	54
72304	110000	22.13	8.06	65.7	6.05	54
72304	120000	22.44	7.90	65.3	5.99	54
72304	130000	22.26	7.77	65.2	6.01	54
72304	140000	22.27	7.72	65.9	6.05	54
72304	150000	22.06	8.79	62.9	5.83	54
72304	160000	22.24	9.02	65.6	6.05	54

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72304	170000	22.40	9.07	65.3	6.00	54
72304	180000	21.99	9.02	62.6	5.83	54
72304	190000	22.29	9.02	61.8	5.74	54
72304	200000	22.14	8.97	62.3	5.79	54
72304	210000	22.52	9.04	63.0	5.82	54
72304	220000	22.29	9.01	63.2	5.86	54
72304	230000	22.00	8.96	62.8	5.85	54
72404	0	22.18	9.04	65.7	6.10	54
72404	10000	21.75	8.06	63.7	5.97	54
72404	20000	21.90	7.90	62.6	5.87	54
72404	30000	21.75	7.80	62.6	5.88	54
72404	40000	21.85	7.81	62.5	5.86	54
72404	50000	21.61	7.74	63.6	6.00	54
72404	60000	21.65	7.75	62.8	5.93	54
72404	70000	21.44	7.72	63.4	6.00	54
72404	80000	21.81	7.81	63.7	5.99	54
72404	90000	21.53	7.72	63.3	5.99	54
72404	100000	21.67	7.72	63.4	5.98	54
72404	110000	21.68	7.73	64.7	6.11	54
72404	120000	21.79	7.71	65.2	6.14	54
72404	130000	21.85	7.71	63.8	6.01	54
72404	140000	21.81	7.69	63.1	5.96	54
72404	150000	22.04	7.74	65.3	6.13	54
72404	160000	21.96	7.72	65.1	6.13	54
72404	170000	21.67	7.68	65.5	6.20	54
72404	180000	21.55	7.66	63.0	5.99	54
72404	190000	21.60	7.69	64.1	6.09	54
72404	200000	21.47	7.65	63.7	6.07	54
72404	210000	21.34	7.63	61.9	5.93	54
72404	220000	21.41	7.70	63.3	6.05	54
72404	230000	21.36	7.71	64.9	6.20	54
72504	0	21.26	7.71	64.6	6.18	54
72504	10000	21.11	7.64	62.1	5.98	54
72504	20000	21.26	7.71	65.2	6.25	54
72504	30000	21.26	7.71	64.0	6.14	54
72504	40000	21.48	7.93	69.9	6.64	54
72504	50000	21.41	7.90	70.2	6.68	54
72504	60000	21.41	7.90	70.7	6.74	54
72504	70000	21.46	7.93	71.0	6.75	54
72504	80000	21.61	7.95	71.4	6.77	54
72504	90000	21.78	8.01	70.6	6.69	54
72504	100000	21.95	8.04	70.5	6.66	54
72504	110000	22.14	8.06	71.7	6.74	54
72504	120000	22.20	8.08	73.5	6.90	54
72504	130000	22.34	8.11	73.1	6.85	54
72504	140000	22.01	7.98	70.1	6.63	54
72504	150000	21.93	7.91	68.2	6.49	54
72504	160000	21.92	7.94	68.8	6.54	54
72504	170000	21.97	7.98	68.9	6.55	54
72504	180000	21.99	8.88	70.1	6.65	54
72504	190000	21.88	8.49	67.2	6.42	54

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72504	200000	21.92	8.21	68.0	6.48	54
72504	210000	21.75	8.09	67.8	6.49	54
72504	220000	21.69	8.01	67.8	6.50	54
72504	230000	21.59	7.97	67.1	6.46	54
72604	0	21.72	8.02	69.8	6.68	54
72604	10000	21.65	8.02	71.2	6.81	54
72604	20000	21.63	8.03	71.7	6.87	54
72604	30000	21.50	7.95	70.0	6.73	54
72604	40000	21.45	7.90	68.5	6.61	54
72604	50000	21.39	7.87	68.1	6.59	54
72604	60000	21.39	7.90	67.8	6.57	54
72604	70000	21.44	7.91	70.4	6.79	54
72604	80000	21.58	7.88	68.6	6.62	54
72604	90000	21.76	7.88	69.4	6.67	54
72604	100000	21.96	7.89	67.2	6.47	54
72604	110000	22.15	7.93	69.4	6.63	54
72604	120000	22.17	7.88	67.2	6.44	54
72604	130000	22.34	8.02	70.2	6.69	54
72604	140000	22.18	7.87	67.7	6.50	54
72604	150000	22.27	7.91	68.2	6.53	54
72604	160000	22.29	7.91	68.6	6.57	54
72604	170000	22.17	7.87	67.2	6.46	54
72604	180000	22.04	7.90	68.4	6.59	54
72604	190000	21.96	7.82	67.5	6.52	54
72604	200000	21.97	7.75	64.4	6.25	54
72604	210000	22.00	7.73	63.5	6.18	54
72604	220000	21.98	7.74	64.8	6.29	54
72604	230000	21.99	7.85	67.9	6.56	54
72704	0	22.20	7.80	66.9	6.46	54
72704	10000	22.36	7.80	67.0	6.45	54
72704	20000	22.20	7.76	66.1	6.39	54
72704	30000	22.02	7.73	65.1	6.33	54
72704	40000	21.90	7.71	66.0	6.42	54
72704	50000	21.81	7.70	63.4	6.22	54
72704	60000	21.75	7.66	63.9	6.27	54
72704	70000	21.72	7.66	64.2	6.29	54
72704	80000	21.97	7.72	65.6	6.41	54
72704	90000	21.95	7.70	64.5	6.31	54
72704	100000	22.23	7.74	65.6	6.38	54
72704	110000	22.22	7.72	65.4	6.37	54
72704	120000	22.28	7.72	64.5	6.29	54
72704	130000	22.23	7.66	63.0	6.16	54
72704	140000	22.38	7.74	66.6	6.46	54
72704	150000	22.41	7.78	67.6	6.55	54
72704	160000	22.40	7.77	65.0	6.32	54
72704	170000	22.34	7.75	64.3	6.28	54
72704	180000	22.13	7.72	64.5	6.32	54
72704	190000	21.90	7.65	63.5	6.27	54
72704	200000	22.06	7.70	62.7	6.19	54
72704	210000	22.05	7.76	63.3	6.24	54
72704	220000	21.86	7.66	63.1	6.25	54

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72704	230000	21.93	7.67	62.6	6.19	54
72804	0	21.74	7.65	63.8	6.32	54
72804	10000	21.77	7.67	64.0	6.35	54
72804	20000	21.95	7.74	65.8	6.48	54
72804	30000	21.75	7.65	63.1	6.27	54
72804	40000	21.96	7.70	64.6	6.39	54
72804	50000	22.04	7.77	67.4	6.63	54
72804	60000	22.03	7.79	67.1	6.61	54
72804	70000	21.88	7.70	65.2	6.46	54
72804	80000	21.84	7.66	63.4	6.31	54
72804	90000	22.03	7.73	63.0	6.26	54
72804	100000	21.99	7.66	62.0	6.18	54
72804	110000	22.08	7.78	66.3	6.54	54
72804	120000	21.89	7.65	62.8	6.27	54
72804	130000	22.26	8.00	73.9	7.20	54
72804	140000	21.98	7.89	71.2	6.99	54
72804	150000	21.75	7.85	69.8	6.90	54
72804	160000	21.59	7.85	71.3	7.05	54
72804	170000	21.27	7.84	70.1	7.00	54
72804	180000	21.08	7.83	68.9	6.91	54
72804	190000	20.99	7.81	68.7	6.91	54
72804	200000	20.95	7.76	67.2	6.79	54
72804	210000	21.31	7.87	69.3	6.94	54
72804	220000	21.40	7.87	68.4	6.85	54
72804	230000	21.53	7.91	69.8	6.96	54
72904	0	21.64	7.88	70.8	7.03	54
72904	10000	21.67	7.85	68.3	6.82	54
72904	20000	21.87	7.90	70.0	6.95	54
72904	30000	21.88	7.87	70.1	6.95	54
72904	40000	21.77	7.89	68.6	6.84	54
72904	50000	21.74	7.86	70.5	7.02	54
72904	60000	21.70	7.84	71.0	7.07	54
72904	70000	21.79	7.89	69.9	6.97	54
72904	80000	21.80	7.85	69.0	6.89	54
72904	90000	21.72	7.89	70.8	7.06	54
72904	100000	21.69	7.87	70.4	7.03	54
72904	110000	21.64	7.89	68.0	6.83	54
72904	130000	21.61	7.03	84.7	7.22	54
72904	140000	21.64	7.11	83.2	7.07	54
72904	150000	21.65	7.28	85.3	7.28	54
72904	160000	21.61	7.13	81.7	6.98	54
72904	170000	21.61	7.15	83.1	7.11	54
72904	180000	21.57	7.10	83.6	7.16	54
72904	190000	21.55	7.41	81.5	6.99	54
72904	200000	21.60	7.11	80.6	6.91	54
72904	210000	21.63	7.04	81.9	6.99	54
72904	220000	21.98	6.74	82.8	7.06	54
72904	230000	22.01	6.64	81.2	6.92	54
73004	0	22.03	6.64	81.8	6.98	54
73004	10000	22.09	6.62	82.0	7.00	54
73004	20000	22.13	6.53	83.9	7.15	54

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73004	30000	22.10	6.72	81.2	6.94	54	
73004	40000	22.15	6.67	84.1	7.17	54	
73004	50000	22.04	6.76	80.2	6.88	54	
73004	60000	22.09	6.82	83.1	7.12	54	
73004	70000	22.05	6.86	83.4	7.15	54	
73004	80000	22.16	6.88	84.1	7.20	54	
73004	90000	22.39	6.83	85.2	7.27	54	
73004	100000	22.49	7.02	84.9	7.24	54	
73004	110000	22.69	6.90	84.4	7.17	54	
73004	120000	22.64	6.67	83.4	7.10	54	
73004	130000	22.70	6.84	83.4	7.11	54	
73004	140000	22.69	6.89	82.9	7.06	54	
73004	150000	22.59	6.99	84.2	7.20	54	
73004	160000	22.62	7.01	81.4	6.96	54	
73004	170000	22.45	7.17	83.0	7.13	54	
73004	180000	20.94	6.61	52.7	[illegible]	54	Possible debris or membrane fouling.
73004	190000	21.41	6.80	65.2	5.75	54	
73004	200000	21.63	6.81	68.3	6.01	54	
73004	210000	21.54	6.83	65.4	5.77	54	
73004	220000	21.55	6.86	66.3	5.86	54	
73004	230000	21.52	6.89	66.2	5.85	54	
73104	0	21.50	6.88	64.4	5.70	54	
73104	10000	21.66	6.97	67.3	5.94	54	
73104	20000	21.70	6.85	66.9	5.91	54	
73104	30000	21.80	6.91	68.1	6.01	54	
73104	40000	21.80	6.80	67.3	5.94	54	
73104	50000	21.97	6.84	70.8	6.22	54	
73104	60000	21.81	6.71	69.3	6.13	54	
73104	70000	21.90	6.92	70.3	6.20	54	
73104	80000	21.90	6.86	70.3	6.21	54	
73104	90000	22.02	6.96	71.9	6.33	54	
73104	100000	22.15	6.87	71.5	6.29	54	
73104	110000	22.41	6.88	76.0	6.64	54	
73104	120000	22.66	6.79	75.6	6.59	54	
73104	130000	22.85	6.85	74.6	6.49	54	
73104	140000	22.95	6.90	75.5	6.56	54	
73104	150000	22.79	7.03	74.8	6.52	54	
73104	160000	22.72	7.16	73.8	6.45	54	
73104	170000	22.36	6.77	69.8	6.17	54	
73104	180000	22.32	6.84	70.0	6.21	54	
73104	190000	22.01	6.72	66.9	5.97	54	
73104	200000	21.75	6.67	62.9	5.68	54	
73104	210000	21.71	6.64	63.7	5.75	54	
73104	220000	21.74	6.68	62.8	5.67	54	
73104	230000	21.89	6.71	66.7	5.99	54	
80104	0	21.86	6.69	66.2	5.96	54	
80104	10000	21.81	6.71	65.7	5.93	54	
80104	20000	21.87	6.78	65.4	5.90	54	
80104	30000	21.78	6.79	66.0	5.97	54	
80104	40000	21.89	6.95	65.8	5.94	54	
80104	50000	21.88	6.81	66.4	6.00	54	

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80104	60000	21.86	6.79	66.5	6.02	54
80104	70000	21.91	6.71	69.1	6.24	54
80104	80000	22.04	6.76	66.5	6.01	54
80104	90000	22.07	6.75	68.0	6.14	54
80104	100000	22.12	6.66	69.5	6.27	54
80104	110000	22.22	6.61	70.3	6.33	54
80104	120000	22.26	6.64	67.5	6.10	54
80104	130000	22.35	6.65	67.7	6.11	54
80104	140000	21.90	6.69	63.6	5.81	54
80104	150000	22.12	6.67	65.6	5.97	54
80104	160000	22.18	6.68	65.2	5.93	54
80104	170000	22.14	6.66	65.3	5.95	54
80104	180000	22.12	6.66	65.6	5.99	54
80104	190000	22.26	6.70	65.3	5.95	54
80104	200000	22.12	6.68	64.5	5.91	54
80104	210000	22.30	6.77	66.7	6.07	54
80104	220000	22.17	6.75	65.1	5.96	54
80104	230000	22.23	6.65	67.2	6.14	54
80204	0	22.44	6.74	68.2	6.20	54
80204	10000	22.46	6.74	67.4	6.15	54
80204	20000	22.26	6.77	66.3	6.07	54
80204	30000	22.20	6.74	66.3	6.08	54
80204	40000	22.20	6.78	66.8	6.13	54
80204	50000	22.08	6.72	65.1	6.01	54
80204	60000	22.18	6.77	66.9	6.17	54
80204	70000	21.90	6.69	63.9	5.94	54
80204	80000	22.12	6.63	66.7	6.16	54
80204	90000	22.23	6.55	65.5	6.05	54
80204	100000	22.28	6.58	66.9	6.17	54
80204	110000	22.35	6.47	65.5	6.06	54
80204	120000	22.23	6.38	64.9	6.02	54
80204	130000	22.31	6.42	66.9	6.36	54
80204	140000	22.20	6.79	67.4	6.24	54
80204	150000	22.17	6.93	65.2	6.07	54
80204	160000	22.10	6.70	64.7	6.04	54
80204	170000	22.47	6.62	66.4	6.15	54
80204	180000	22.57	6.53	65.0	6.03	54
80204	190000	22.66	6.55	64.8	5.99	54
80204	200000	22.46	6.57	63.9	5.97	54
80204	210000	22.42	6.50	64.0	5.98	54
80204	220000	22.56	6.61	67.4	6.25	54
80204	230000	22.61	6.52	65.7	6.11	54
80304	0	22.59	6.53	67.7	6.29	54
80304	10000	22.59	6.45	68.0	6.32	54
80304	20000	22.44	6.69	64.6	6.05	54
80304	30000	22.31	6.64	64.6	6.08	54
80304	40000	22.27	6.68	64.7	6.09	54
80304	50000	22.38	6.49	67.0	6.28	54
80304	60000	22.50	6.49	67.6	6.34	54
80304	70000	22.36	6.46	66.4	6.24	54
80304	80000	22.46	6.58	67.9	6.37	54

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80304	90000	22.38	6.49	66.5	6.26	54
80304	100000	22.56	6.63	68.6	6.42	54
80304	110000	22.65	6.77	68.3	6.39	54
80304	120000	22.48	6.94	67.2	6.32	54
80304	130000	22.46	6.66	66.5	6.28	54
80304	140000	22.49	6.60	66.8	6.31	54
80304	150000	22.36	6.61	65.1	6.18	54
80304	160000	22.45	6.70	66.5	6.29	54
80304	170000	22.33	6.58	64.9	6.21	54
80304	180000	22.11	6.51	61.5	5.93	54
80304	190000	22.12	6.62	63.5	6.09	54
80304	200000	22.21	6.61	63.6	6.10	54
80304	210000	22.33	6.64	63.5	6.09	54
80304	220000	22.23	6.56	63.4	6.10	54
80304	230000	22.35	6.55	64.8	6.20	54
80404	0	22.35	6.51	65.5	6.27	54
80404	10000	22.50	6.54	68.5	6.51	54
80404	20000	22.47	6.50	67.8	6.45	54
80404	30000	22.63	6.52	70.4	6.66	54
80404	40000	22.55	6.68	68.7	6.54	54
80404	50000	22.59	6.79	68.8	6.55	54
80404	60000	22.49	6.77	70.0	6.67	54
80404	70000	22.54	6.69	70.5	6.71	54
80404	80000	22.59	6.89	71.6	6.81	54
80404	90000	22.74	6.89	73.9	6.98	54
80404	100000	23.02	6.87	75.8	7.12	54
80404	110000	22.96	7.06	74.7	7.03	54
80404	120000	23.24	7.09	75.0	7.03	54
80404	130000	23.34	7.35	75.3	7.06	54
80404	140000	23.40	7.22	77.5	7.23	54
80404	150000	23.57	7.30	77.8	7.24	54
80404	160000	23.64	7.25	78.6	7.33	54
80404	170000	23.60	7.07	78.3	7.29	54
80404	180000	23.49	7.26	75.6	7.09	54
80404	190000	23.36	7.15	76.5	7.18	54
80404	200000	23.12	7.01	74.3	7.03	54
80404	210000	22.82	6.88	73.8	7.02	54
80404	220000	22.74	6.77	71.2	6.83	54
80404	230000	22.56	6.72	71.9	6.91	54
80504	0	22.37	6.60	69.2	6.72	54
80504	10000	22.22	6.39	69.0	6.73	54
80504	20000	22.11	6.31	67.2	6.59	54
80504	30000	22.15	6.42	68.2	6.67	54
80504	40000	22.01	6.24	67.6	6.64	54
80504	50000	21.98	6.30	68.7	6.75	54
80504	60000	21.93	6.37	65.7	6.51	54
80504	70000	22.04	6.51	67.8	6.68	54
80504	80000	22.16	6.57	70.2	6.88	54
80504	90000	22.30	6.58	73.7	7.15	54
80504	100000	22.47	6.65	73.3	7.11	54
80504	110000	22.64	6.85	74.1	7.16	54

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80504	120000	22.92	6.86	75.4	7.24	54
80504	130000	23.16	6.92	79.1	7.53	54
80504	140000	22.90	6.69	71.4	6.92	54
80504	150000	22.92	6.77	70.9	6.89	54
80504	160000	23.02	6.69	71.6	6.94	54
80504	170000	23.00	6.64	71.8	6.96	54
80504	180000	23.00	6.60	71.3	6.93	54
80504	190000	22.76	6.43	68.7	6.72	54
80504	200000	22.49	6.17	66.1	6.57	54
80504	210000	22.28	6.16	63.6	6.38	54
80504	220000	22.11	6.15	60.7	6.16	54
80504	230000	21.99	6.28	60.1	6.12	54
80604	0	22.68	6.64	85.1	8.15	54
80604	10000	22.75	6.62	82.8	7.94	54
80604	20000	22.69	6.69	83.7	8.04	103
80604	30000	22.62	6.69	82.8	7.98	207
80604	40000	22.57	6.73	82.5	7.97	207
80604	50000	22.52	6.62	82.4	7.98	207
80604	60000	22.42	6.67	82.5	8.00	207
80604	70000	22.41	6.76	83.2	8.07	207
80604	80000	22.47	6.77	83.4	8.08	207
80604	90000	22.60	6.85	83.2	8.05	208
80604	100000	22.78	6.97	81.1	7.86	208
80604	110000	22.61	6.41	71.6	7.09	207
80604	120000	22.88	6.48	74.3	7.29	203
80604	150000	23.20	7.86	85.2	7.13	120
80604	160000	23.34	7.92	88.7	7.40	60
80604	170000	23.17	7.88	88.3	7.40	60
80604	180000	23.07	7.90	89.1	7.48	60
80604	190000	22.94	7.84	87.1	7.35	60
80604	200000	22.83	7.85	86.6	7.32	60
80604	210000	22.62	7.85	87.0	7.39	60
80604	220000	22.37	7.73	85.4	7.29	60
80604	230000	22.30	7.73	84.2	7.21	60
80704	0	22.22	7.76	84.9	7.28	60
80704	10000	22.00	7.66	83.9	7.23	60
80704	20000	21.91	7.67	82.7	7.14	60
80704	30000	21.98	7.72	83.6	7.22	60
80704	40000	21.96	7.78	85.2	7.36	60
80704	50000	22.00	7.85	87.5	7.56	60
80704	60000	21.91	7.77	84.0	7.28	60
80704	70000	21.93	7.88	86.1	7.46	60
80704	80000	22.15	7.89	86.1	7.43	60
80704	90000	22.25	7.91	84.5	7.29	60
80704	100000	22.41	7.92	81.9	7.05	60
80704	110000	22.41	7.93	79.8	6.88	60
80704	120000	22.44	7.92	76.4	6.59	60
80704	130000	22.48	7.98	75.2	6.49	60
80704	140000	22.40	7.88	70.9	6.14	60
80704	150000	22.40	7.90	69.8	6.06	60
80704	160000	22.34	7.89	67.4	5.86	60

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80704	170000	22.28	7.85	66.4	5.79	60
80704	180000	22.22	7.86	66.1	5.77	60
80704	190000	22.23	7.86	64.8	5.66	60
80704	200000	22.21	7.91	64.8	5.68	60
80704	210000	22.12	7.87	65.9	5.78	60
80704	220000	22.07	7.83	64.8	5.70	60
80704	230000	22.08	7.87	64.1	5.65	60
80804	0	21.97	7.79	63.1	5.58	60
80804	10000	22.02	7.90	66.1	5.83	60
80804	20000	21.90	7.81	63.8	5.66	60
80804	30000	21.85	7.83	65.2	5.78	60
80804	40000	21.83	7.81	62.9	5.59	60
80804	50000	21.80	7.83	63.8	5.68	60
80804	60000	21.73	7.81	63.8	5.71	60
80804	70000	21.77	7.81	61.3	5.47	60
80804	80000	21.87	7.87	64.2	5.72	60
80804	90000	21.84	7.86	63.4	5.65	60
80804	100000	21.80	7.86	59.8	5.36	60
80804	110000	21.81	7.88	61.1	5.47	60
80804	120000	21.93	8.54	64.1	5.73	60
80804	130000	21.80	8.22	61.2	5.49	60
80804	140000	21.82	8.01	61.4	5.51	60
80804	150000	22.28	8.06	65.0	5.78	60
80804	160000	22.07	8.30	62.3	5.58	60
80804	170000	21.97	8.49	63.8	5.71	60
80804	180000	21.86	7.99	58.0	5.24	60
80804	190000	21.86	7.94	60.7	5.47	60
80804	200000	21.80	7.89	60.4	5.46	60
80804	210000	21.79	7.88	61.5	5.56	60
80804	220000	21.76	7.86	61.6	5.58	60
80804	230000	21.70	7.83	59.6	5.41	60
80904	0	21.74	7.84	59.8	5.44	60
80904	10000	21.67	7.79	58.9	5.38	60
80904	20000	21.66	7.84	60.8	5.54	60
80904	30000	21.60	7.80	60.2	5.51	60
80904	40000	21.83	8.13	73.3	6.61	60
80904	50000	21.83	8.11	73.4	6.62	60
80904	60000	21.80	8.09	73.1	6.60	60
80904	70000	21.85	8.11	72.9	6.59	60
80904	80000	21.86	8.16	72.7	6.57	151
80904	90000	21.89	8.33	73.2	6.62	272
80904	100000	21.86	8.48	72.8	6.59	272
80904	110000	20.99	8.17	47.8	[redacted]	272
80904	120000	22.25	8.60	73.9	6.65	272
80904	130000	22.19	8.94	72.8	6.57	271
80904	140000	21.97	8.66	72.6	6.58	270
80904	150000	22.12	8.79	73.5	6.65	215
80904	160000	22.12	8.88	73.0	6.61	126
80904	170000	22.02	9.01	73.0	6.63	135
80904	180000	21.94	8.97	73.5	6.68	135
80904	190000	21.92	9.03	72.8	6.63	135

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80904	200000	21.94	8.49	72.2	6.58	135
80904	210000	21.91	8.37	72.4	6.61	135
80904	220000	21.79	8.36	72.8	6.66	135
80904	230000	21.81	9.40	72.9	6.68	135
81004	0	21.77	8.58	72.5	6.65	135
81004	10000	21.76	8.44	72.1	6.63	135
81004	20000	21.79	8.32	71.8	6.59	135
81004	30000	21.77	8.31	71.7	6.60	135
81004	40000	21.70	8.20	69.9	6.45	135
81004	50000	21.70	8.23	69.8	6.45	135
81004	60000	21.66	8.15	70.5	6.51	135
81004	70000	21.68	8.12	69.6	6.44	135
81004	80000	21.68	8.19	71.8	6.65	135
81004	90000	21.64	8.19	71.7	6.64	135
81004	100000	21.62	8.21	73.2	6.79	135
81004	110000	21.62	8.22	72.7	6.74	135
81004	120000	21.69	8.24	73.8	6.84	135
81004	130000	21.73	8.55	71.3	6.62	135
81004	140000	21.64	9.32	71.7	6.68	135
81004	150000	21.63	9.45	72.0	6.70	135
81004	160000	21.57	9.46	71.3	6.65	135
81004	170000	21.55	9.52	72.6	6.77	135
81004	180000	21.50	9.05	73.3	6.85	135
81004	190000	21.45	8.63	71.9	6.73	135
81004	200000	21.40	8.45	71.9	6.75	135
81004	210000	21.33	8.42	72.1	6.78	135
81004	220000	21.28	8.33	71.9	6.77	135
81004	230000	21.21	8.30	72.7	6.85	135
81104	0	21.13	8.27	70.9	6.72	135
81104	10000	21.07	8.25	71.7	6.79	135
81104	20000	21.02	8.25	71.6	6.80	135
81104	30000	20.98	8.24	71.5	6.79	135
81104	40000	20.89	8.23	72.3	6.88	135
81104	50000	20.85	8.23	72.1	6.87	135
81104	60000	20.76	8.24	72.1	6.89	135
81104	70000	20.71	8.23	71.8	6.87	135
81104	80000	20.68	8.22	71.9	6.89	135
81104	90000	20.60	8.28	72.7	6.97	135
81104	100000	20.64	8.25	72.9	7.00	135
81104	110000	20.69	8.23	72.6	6.97	135
81104	120000	20.68	8.26	73.3	7.04	135
81104	130000	20.74	8.24	72.7	6.99	135
81104	140000	20.67	8.23	73.1	7.04	135
81104	150000	20.65	8.23	73.1	7.04	135
81104	160000	20.64	8.23	73.1	7.05	135
81104	170000	20.58	8.20	72.7	7.03	135
81104	180000	20.55	8.23	72.8	7.04	135
81104	190000	20.51	8.21	72.5	7.03	135
81104	200000	20.45	8.19	73.0	7.09	135
81104	210000	20.37	8.25	71.5	6.97	135
81104	220000	20.31	8.18	72.1	7.03	135

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81104	230000	20.23	8.21	72.6	7.10	135
81204	0	20.18	8.20	71.7	7.02	135
81204	10000	20.15	8.17	72.8	7.13	135
81204	20000	20.12	8.16	72.8	7.14	135
81204	30000	20.04	8.19	72.0	7.08	135
81204	40000	19.97	8.20	72.0	7.10	135
81204	50000	19.90	8.18	72.7	7.18	135
81204	60000	19.86	8.17	72.6	7.17	135
81204	70000	19.81	8.16	72.9	7.21	135
81204	80000	19.82	8.20	72.2	7.15	135
81204	90000	19.93	8.19	72.9	7.21	135
81204	100000	20.08	8.24	73.5	7.24	135
81204	110000	20.21	8.27	73.6	7.25	135
81204	120000	20.43	8.21	74.2	7.27	135
81204	130000	20.59	8.21	73.1	7.17	135
81204	140000	20.58	8.20	73.1	7.17	135
81204	150000	20.76	8.25	72.9	7.14	135
81204	160000	20.82	8.22	73.2	7.15	135
81204	170000	20.75	8.22	73.0	7.16	135
81204	180000	20.68	8.22	72.0	7.09	135
81204	190000	20.55	8.20	72.0	7.10	135
81204	200000	20.48	8.20	72.5	7.17	135
81204	210000	20.37	8.18	71.7	7.11	135
81204	220000	20.29	8.16	72.4	7.19	135
81204	230000	20.21	8.21	72.0	7.17	135
81304	0	20.16	8.14	71.9	7.17	135
81304	10000	20.07	8.16	71.3	7.13	135
81304	20000	19.99	8.15	71.7	7.18	135
81304	30000	19.93	8.16	71.3	7.16	135
81304	40000	19.91	8.16	72.1	7.24	135
81304	50000	19.87	8.21	72.5	7.28	135
81304	60000	19.84	8.15	71.9	7.25	135
81304	70000	19.80	8.17	71.9	7.25	135
81304	80000	19.80	8.18	73.6	7.41	135
81304	90000	19.87	8.18	73.1	7.36	135
81304	100000	19.99	8.22	72.7	7.32	135
81304	110000	20.12	8.22	72.6	7.29	135
81304	120000	20.35	8.22	73.2	7.32	135
81304	130000	20.40	8.23	72.9	7.29	135
81304	140000	20.53	8.26	73.0	7.29	135
81304	150000	20.62	8.26	72.9	7.27	135
81304	160000	20.45	8.23	72.1	7.23	135
81304	170000	20.35	8.24	72.2	7.25	135
81304	180000	20.30	8.21	71.5	7.21	135
81304	190000	20.32	8.62	71.7	7.23	135
81304	200000	20.22	8.40	71.2	7.21	135
81304	210000	20.23	8.77	71.4	7.21	135
81304	220000	20.17	8.45	71.4	7.23	135
81304	230000	20.08	9.22	71.8	7.30	135
81404	0	20.01	9.55	71.4	7.26	135
81404	10000	19.91	9.07	72.0	7.34	135

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81404	20000	19.87	8.71	71.6	7.31	135
81404	30000	19.81	8.45	71.6	7.32	135
81404	40000	19.79	8.38	71.6	7.33	135
81404	50000	19.74	8.33	71.8	7.37	135
81404	60000	19.87	8.34	71.9	7.39	135
81404	70000	19.87	8.70	72.0	7.40	135
81404	80000	19.75	8.47	72.9	7.47	135
81404	90000	19.84	8.39	72.6	7.45	135
81404	100000	19.96	8.38	72.9	7.46	135
81404	110000	20.14	8.37	73.9	7.54	135
81404	120000	20.30	8.39	73.5	7.47	135
81404	130000	20.37	8.38	74.3	7.54	135
81404	140000	20.42	8.37	73.8	7.50	135
81404	150000	20.50	8.37	73.8	7.49	135
81404	160000	20.38	8.28	73.5	7.48	135
81404	170000	20.41	8.28	73.3	7.48	135
81404	180000	20.19	8.24	73.3	7.50	135
81404	190000	20.07	8.25	73.0	7.50	135
81404	200000	19.93	8.22	72.8	7.50	135
81404	210000	19.85	8.21	73.1	7.55	135
81404	220000	19.82	8.22	73.0	7.54	135
81404	230000	19.74	8.18	73.3	7.59	135
81504	0	19.71	8.19	72.9	7.56	135
81504	10000	19.63	8.19	73.4	7.62	135
81504	20000	19.58	8.18	73.4	7.63	135
81504	30000	19.55	8.18	73.2	7.62	135
81504	40000	19.49	8.16	73.7	7.68	135
81504	50000	19.45	8.15	72.8	7.61	135
81504	60000	19.42	8.15	73.2	7.66	135
81504	70000	19.40	8.16	73.7	7.72	135
81504	80000	19.48	8.20	74.3	7.76	135
81504	90000	19.67	8.23	74.1	7.72	135
81504	100000	19.85	8.20	74.4	7.73	135
81504	110000	19.96	8.24	74.6	7.74	135
81504	120000	20.01	8.28	74.3	7.71	135
81504	130000	19.85	8.24	74.4	7.74	135
81504	140000	19.98	8.21	74.6	7.75	135
81504	150000	19.99	8.25	74.0	7.70	135
81504	160000	20.12	8.23	74.3	7.72	135
81504	170000	20.13	8.24	74.4	7.73	135
81504	180000	20.04	8.22	73.5	7.67	135
81504	190000	19.89	8.18	73.3	7.67	135
81504	200000	19.85	8.18	74.0	7.75	135
81504	210000	19.83	8.15	73.0	7.66	135
81504	220000	19.78	8.19	73.7	7.74	135
81504	230000	19.75	8.15	72.9	7.67	135
81604	0	19.73	8.17	73.6	7.75	135
81604	10000	19.63	8.14	73.3	7.73	135
81604	20000	19.59	8.15	72.5	7.68	135
81604	30000	19.53	8.12	72.8	7.71	135
81604	40000	19.50	8.15	73.3	7.77	135

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81604	50000	19.50	8.14	73.1	7.75	135
81604	60000	19.50	8.15	72.9	7.74	135
81604	70000	19.50	8.17	72.8	7.74	135
81604	80000	19.59	8.21	73.1	7.77	135
81604	90000	19.70	8.19	73.2	7.76	135
81604	100000	19.71	8.25	73.9	7.83	135
81604	110000	19.87	8.20	88.8	7.90	135
81604	120000	19.85	8.16	87.8	7.81	135
81604	130000	19.84	8.19	87.5	7.80	135
81604	140000	19.85	9.61	86.8	7.73	135
81604	150000	19.88	8.21	86.7	7.72	135
81604	160000	19.83	8.20	86.8	7.74	135
81604	170000	19.77	8.21	86.8	7.74	135
81604	180000	19.70	8.20	86.1	7.69	135
81604	190000	19.56	8.17	86.3	7.73	135
81604	200000	19.57	8.14	85.7	7.68	135
81604	210000	19.62	8.20	86.2	7.72	135
81604	220000	19.64	8.16	85.7	7.67	135
81604	230000	19.67	8.17	85.9	7.68	135
81704	0	19.68	8.15	86.0	7.69	135
81704	10000	19.68	8.21	85.1	7.60	135
81704	20000	19.65	8.16	85.5	7.64	135
81704	30000	19.67	8.23	85.8	7.67	135
81704	40000	19.68	8.11	83.8	7.49	135
81704	50000	19.69	8.16	84.8	7.58	135
81704	60000	19.67	8.13	84.5	7.56	135
81704	70000	19.67	8.14	85.4	7.63	135
81704	80000	19.69	8.18	85.4	7.63	135
81704	90000	19.75	8.24	86.1	7.68	135
81704	100000	19.84	8.22	85.6	7.62	135
81704	110000	19.88	8.22	86.4	7.69	135
81704	120000	19.97	8.20	83.7	7.43	135
81704	130000	19.98	8.20	82.2	7.30	135
81704	140000	20.08	8.12	81.6	7.23	135
81704	150000	20.13	8.22	83.0	7.35	135
81704	160000	20.11	8.13	81.0	7.18	135
81704	170000	20.09	8.17	82.9	7.34	86
81704	180000	19.94	8.10	78.9	7.01	81
81704	190000	19.88	8.08	80.1	7.13	81
81704	200000	19.88	8.10	79.9	7.11	81
81704	210000	19.83	8.09	79.4	7.07	81
81704	220000	19.86	8.10	78.2	6.97	81
81704	230000	19.78	8.11	78.5	7.00	81
81804	0	19.76	8.09	79.3	7.08	81
81804	10000	19.70	8.11	79.8	7.13	81
81804	20000	19.65	8.04	77.4	6.92	81
81804	30000	19.63	8.08	79.0	7.07	81
81804	40000	19.58	8.18	81.4	7.29	81
81804	50000	19.54	8.15	81.8	7.32	81
81804	60000	19.50	8.23	82.6	7.41	81
81804	70000	19.54	8.14	81.1	7.27	81

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81804	80000	19.64	8.22	82.3	7.36	81
81804	90000	19.79	8.23	80.9	7.21	81
81804	100000	19.93	8.31	82.2	7.31	81
81804	110000	20.01	8.17	80.7	7.16	81
81804	120000	19.99	8.27	83.1	7.38	81
81804	130000	19.95	8.22	82.2	7.31	81
81804	140000	19.85	8.18	80.6	7.18	81
81804	150000	19.69	8.17	75.9	6.78	81
81804	160000	19.98	8.15	78.6	6.98	81
81804	170000	20.02	8.30	80.9	7.18	81
81804	180000	19.81	8.13	78.3	6.98	81
81804	190000	19.91	8.33	81.9	7.28	81
81804	200000	19.81	8.24	81.7	7.28	81
81804	210000	19.70	8.30	80.1	7.15	81
81804	220000	19.62	8.26	79.3	7.10	81
81804	230000	19.48	8.26	80.4	7.21	81
81904	0	19.45	8.32	80.5	7.22	81
81904	10000	19.40	8.29	81.0	7.28	81
81904	20000	19.33	8.30	80.6	7.25	81
81904	30000	19.27	8.26	81.0	7.30	81
81904	40000	19.20	8.29	80.0	7.22	81
81904	50000	19.15	8.27	79.8	7.21	81
81904	60000	19.11	8.27	80.3	7.25	81
81904	70000	19.09	8.26	80.3	7.26	81
81904	80000	19.16	8.27	80.8	7.30	81
81904	90000	19.29	8.29	81.1	7.31	81
81904	100000	19.41	8.32	81.6	7.33	81
81904	110000	19.53	8.34	81.8	7.33	81
81904	120000	19.63	8.30	81.5	7.29	81
81904	130000	19.81	8.13	76.4	6.81	81
81904	140000	19.83	8.14	75.0	6.68	81
81904	150000	19.85	8.21	75.9	6.76	81
81904	160000	19.81	8.12	76.4	6.81	81
81904	170000	19.72	8.12	74.3	6.63	66
81904	180000	19.60	8.08	73.8	6.61	54
81904	190000	19.39	8.07	69.0	6.21	54
81904	200000	19.33	8.05	68.7	6.18	54
81904	210000	19.29	8.06	68.2	6.14	54
81904	220000	19.25	8.04	68.5	6.17	54
81904	230000	19.26	8.06	69.0	6.22	54
82004	0	19.18	9.94	68.2	6.15	54
82004	10000	19.12	7.99	67.4	6.09	54
82004	20000	19.09	7.97	67.0	6.06	54
82004	30000	19.10	7.95	66.2	5.99	54
82004	40000	19.03	8.02	67.1	6.07	54
82004	50000	19.09	7.99	68.5	6.20	54
82004	60000	19.06	8.07	68.8	6.23	54
82004	70000	19.06	8.03	69.4	6.27	54
82004	80000	18.94	8.16	71.6	6.49	54
82004	90000	19.17	8.05	71.5	6.46	54
82004	100000	19.33	8.19	73.8	6.64	54

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82004	110000	19.51	8.16	75.7	6.78	54
82004	120000	19.67	8.19	76.1	6.81	54
82004	130000	19.91	8.28	77.6	6.91	54
82004	140000	19.95	8.34	77.9	6.92	54
82004	150000	19.99	8.27	78.5	6.97	54
82004	160000	20.01	8.27	78.7	6.99	54
82004	170000	19.96	8.28	79.4	7.05	54
82004	180000	19.92	8.34	79.8	7.09	54
82004	190000	19.86	8.35	78.5	6.99	54
82004	200000	19.81	8.32	78.0	6.95	54
82004	210000	19.76	8.31	77.8	6.94	54
82004	220000	19.65	8.27	77.4	6.92	54
82004	230000	19.63	8.28	76.7	6.86	54
82104	0	19.60	8.23	75.6	6.76	54
82104	10000	19.50	8.23	76.3	6.84	54
82104	20000	19.50	8.23	76.3	6.84	54
82104	30000	19.43	8.22	75.9	6.82	54
82104	40000	19.31	8.23	75.1	6.76	54
82104	50000	19.31	8.23	74.1	6.67	54
82104	60000	19.18	8.22	74.7	6.74	54
82104	70000	19.17	8.27	74.5	6.73	54
82104	80000	19.27	8.27	74.9	6.75	54
82104	90000	19.51	8.24	75.5	6.77	54
82104	100000	19.62	8.28	76.1	6.81	54
82104	110000	19.75	8.28	76.0	6.78	54
82104	120000	19.88	8.43	76.7	6.83	54
82104	130000	19.97	8.63	77.7	6.90	54
82104	140000	19.93	8.39	77.5	6.89	54
82104	150000	19.94	8.40	77.5	6.89	54
82104	160000	19.89	8.40	77.4	6.89	54
82104	170000	19.78	8.36	76.4	6.81	54
82104	180000	19.61	8.31	75.9	6.79	54
82104	190000	19.39	8.25	72.3	6.50	54
82104	200000	19.34	8.20	71.0	6.39	54
82104	210000	19.30	8.25	71.7	6.46	54
82104	220000	19.22	8.26	70.8	6.38	54
82104	230000	19.15	8.20	71.6	6.47	54
82204	0	19.17	8.25	71.3	6.44	54
82204	10000	19.16	8.26	71.0	6.41	54
82204	20000	19.13	8.26	70.6	6.37	54
82204	30000	19.12	8.22	70.2	6.35	54
82204	40000	19.00	8.26	69.7	6.31	54
82204	50000	19.04	8.17	69.6	6.30	54
82204	60000	18.97	8.24	69.7	6.31	54
82204	70000	18.97	8.22	70.3	6.37	54
82204	80000	18.98	8.23	69.7	6.32	54
82204	90000	18.94	8.23	69.4	6.30	54
82204	100000	18.98	8.17	69.1	6.26	54
82204	110000	19.25	8.23	70.2	6.33	54
82204	120000	19.50	8.25	69.7	6.25	54
82204	130000	19.68	8.26	71.1	6.35	54

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82204	140000	19.65	8.28	71.5	6.39	54
82204	150000	19.57	8.24	72.1	6.45	54
82204	160000	19.57	8.32	72.4	6.49	54
82204	170000	19.58	8.33	71.8	6.43	54
82204	180000	19.64	8.35	73.1	6.53	54
82204	190000	19.59	8.32	71.8	6.43	54
82204	200000	19.53	8.23	70.8	6.34	54
82204	210000	19.51	8.20	70.5	6.32	54
82204	220000	19.54	8.23	70.7	6.33	54
82204	230000	19.51	8.29	70.9	6.35	54
82304	0	19.53	8.34	72.3	6.48	54
82304	10000	19.56	8.33	72.6	6.50	54
82304	20000	19.54	8.33	72.2	6.47	54
82304	30000	19.50	8.39	72.5	6.50	54
82304	40000	19.43	8.41	73.8	6.63	54
82304	50000	19.41	8.41	73.6	6.61	54
82304	60000	19.31	8.41	74.3	6.69	54
82304	70000	19.25	8.41	75.0	6.76	54
82304	80000	19.21	8.42	75.1	6.77	54
82304	90000	19.33	8.42	75.9	6.83	54
82304	100000	19.57	8.49	76.7	6.87	54
82404	130000	19.92	8.24	90.6	8.00	54
82404	140000	19.81	8.10	92.6	8.20	54
82404	150000	19.73	8.06	90.4	8.02	54
82404	160000	19.74	8.06	89.8	7.96	54
82404	170000	19.73	8.04	88.7	7.87	54
82404	180000	19.65	8.00	86.7	7.70	54
82404	190000	19.63	7.99	86.0	7.65	54
82404	200000	19.62	7.99	85.3	7.58	54
82404	210000	19.62	7.98	85.1	7.56	54
82404	220000	19.63	7.98	84.9	7.55	54
82404	230000	19.65	8.02	86.5	7.69	54
82504	0	19.71	8.04	86.8	7.70	54
82504	10000	19.73	8.06	86.4	7.66	54
82504	20000	19.72	8.04	86.1	7.64	54
82504	30000	19.70	8.02	85.1	7.55	54
82504	40000	19.71	8.04	84.8	7.53	54
82504	50000	19.74	8.03	85.4	7.57	54
82504	60000	19.75	8.06	85.4	7.57	54
82504	70000	19.72	8.03	84.5	7.50	54
82504	80000	19.80	8.08	86.4	7.65	54
82504	90000	19.94	8.24	92.8	8.20	54
82504	100000	19.95	8.25	93.0	8.21	54
82504	110000	19.98	8.25	92.9	8.20	54
82504	120000	20.06	8.27	93.5	8.24	54
82504	130000	19.99	8.05	86.6	7.64	54
82504	140000	19.97	8.08	86.6	7.65	54
82504	150000	20.06	8.09	86.4	7.61	54
82504	160000	19.77	8.02	83.7	7.42	54
82504	170000	19.74	8.01	83.1	7.37	54
82504	180000	19.64	7.97	81.0	7.20	54

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82504	190000	19.59	7.97	80.9	7.19	54
82504	200000	19.53	7.95	79.9	7.12	54
82504	210000	19.51	7.93	79.1	7.05	54
82504	220000	19.49	7.92	78.6	7.00	54
82504	230000	19.43	7.89	76.6	6.83	54
82604	0	19.43	7.88	76.4	6.82	54
82604	10000	19.43	7.90	76.4	6.82	54
82604	20000	19.42	7.91	76.2	6.80	54
82604	30000	19.41	7.90	76.2	6.80	54
82604	40000	19.45	7.93	78.1	6.96	54
82604	50000	19.50	7.95	79.2	7.06	54
82604	60000	19.53	7.97	79.8	7.11	54
82604	70000	19.52	7.97	79.5	7.08	54
82604	80000	19.53	7.97	79.6	7.09	54
82604	90000	19.55	7.99	80.1	7.13	54
82604	100000	19.56	8.02	80.4	7.15	54
82604	110000	19.63	8.03	80.8	7.19	54
82604	120000	19.65	8.04	81.5	7.25	54
82604	130000	19.69	8.05	81.3	7.21	54
82604	140000	19.72	8.02	80.4	7.14	54
82604	150000	19.72	7.98	79.0	7.01	126
82604	160000	19.68	7.98	78.8	7.00	189
82604	170000	19.62	7.97	78.4	6.97	189
82604	180000	19.60	7.98	78.6	6.99	189
82604	190000	19.60	7.98	77.9	6.93	66
82604	200000	19.61	7.98	77.9	6.93	0
82604	210000	19.60	7.96	77.0	6.85	0
82604	220000	19.62	7.96	76.8	6.83	0
82604	230000	19.63	7.96	76.8	6.83	0
82704	0	19.63	7.98	76.9	6.84	0
82704	10000	19.85	8.06	80.2	7.10	0
82704	20000	19.74	8.02	78.6	6.97	0
82704	30000	19.81	8.05	79.8	7.07	0
82704	40000	19.85	8.06	81.2	7.18	0
82704	50000	19.93	8.12	82.9	7.32	0
82704	60000	19.98	8.15	83.4	7.36	0
82704	70000	19.99	8.13	83.2	7.34	0
82704	80000	20.02	8.15	83.5	7.36	0
82704	90000	20.08	8.16	84.1	7.41	0
82704	100000	20.12	8.17	84.3	7.42	0
82704	110000	20.20	8.18	85.3	7.50	0
82704	120000	20.31	8.19	86.3	7.57	0
82704	130000	20.41	8.21	86.7	7.59	0
82704	140000	20.33	8.16	85.3	7.47	0
82704	150000	20.40	8.17	85.1	7.45	0
82704	160000	20.30	8.11	82.6	7.25	0
82704	170000	20.27	8.10	81.2	7.13	0
82704	180000	20.21	8.10	80.8	7.10	0
82704	190000	20.16	8.08	79.3	6.98	0
82704	200000	20.11	8.08	79.2	6.97	0
82704	210000	20.17	8.08	79.8	7.02	0

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82704	220000	20.21	8.10	80.1	7.04	0
82704	230000	20.30	8.12	80.7	7.08	0
82804	0	20.42	8.15	82.0	7.18	0
82804	10000	20.53	8.21	83.5	7.29	0
82804	20000	20.61	8.25	84.9	7.40	0
82804	30000	20.68	8.26	85.5	7.45	0
82804	40000	20.59	8.25	84.9	7.40	0
82804	50000	20.58	8.27	85.0	7.41	0
82804	60000	20.58	8.29	85.5	7.46	0
82804	70000	20.60	8.32	86.1	7.51	0
82804	80000	20.64	8.36	87.6	7.63	0
82804	90000	20.65	8.38	88.4	7.70	0
82804	100000	20.75	8.40	89.4	7.77	0
82804	110000	20.71	8.40	88.9	7.73	0
82804	120000	20.73	8.41	89.0	7.74	0
82804	130000	20.67	8.39	88.2	7.68	0
82804	140000	20.60	8.38	87.4	7.62	0
82804	150000	20.57	8.38	86.8	7.57	0
82804	160000	20.51	8.37	86.3	7.54	0
82804	170000	20.56	8.40	87.1	7.60	0
82804	180000	20.54	8.41	87.1	7.61	0
82804	190000	20.45	8.37	85.7	7.50	0
82804	200000	20.38	8.36	85.0	7.44	0
82804	210000	20.30	8.34	83.8	7.35	0
82804	220000	20.27	8.32	82.9	7.28	0
82804	230000	20.23	8.30	82.2	7.22	0
82904	0	20.17	8.30	81.8	7.19	0
82904	10000	20.19	8.33	82.8	7.28	0
82904	20000	20.12	8.30	81.7	7.19	0
82904	30000	20.05	8.29	81.0	7.14	0
82904	40000	19.90	8.25	78.3	6.93	0
82904	50000	19.79	8.21	77.0	6.82	0
82904	60000	19.75	8.20	75.8	6.72	0
82904	70000	19.71	8.21	76.1	6.75	0
82904	80000	19.79	8.24	77.1	6.84	0
82904	90000	19.85	8.28	78.5	6.95	0
82904	100000	19.91	8.32	80.2	7.09	0
82904	110000	19.94	8.35	80.9	7.14	0
82904	120000	19.97	8.38	81.9	7.23	0
82904	130000	20.00	8.41	82.2	7.25	0
82904	140000	20.02	8.39	82.1	7.24	0
82904	150000	19.99	8.39	82.0	7.23	0
82904	160000	19.96	8.40	81.9	7.23	0
82904	170000	20.02	8.42	82.3	7.26	0
82904	180000	19.95	8.40	81.5	7.20	0
82904	190000	19.83	8.35	79.3	7.02	0
82904	200000	19.76	8.34	78.3	6.95	0
82904	210000	19.72	8.34	78.0	6.92	0
82904	220000	19.67	8.34	77.9	6.92	0
82904	230000	19.63	8.33	77.2	6.86	0
83004	0	19.61	8.35	77.7	6.91	0

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83004	10000	19.58	8.34	77.5	6.90	0
83004	20000	19.55	8.36	77.2	6.87	0
83004	30000	19.50	8.35	76.8	6.85	0
83004	40000	19.38	8.26	72.6	6.48	0
83004	50000	19.33	8.25	72.0	6.44	0
83004	60000	19.34	8.21	70.4	6.30	0
83004	70000	19.31	8.22	70.6	6.31	0
83004	80000	19.23	8.37	74.1	6.64	0
83004	90000	19.31	8.33	76.1	6.80	0
83004	100000	19.34	8.34	76.1	6.80	0
83004	110000	19.38	8.31	76.1	6.80	0
83004	120000	19.46	8.28	75.0	6.69	0
83004	130000	19.67	8.35	76.1	6.76	0
83004	140000	19.80	8.40	78.0	6.91	0
83004	150000	19.84	8.39	78.5	6.95	0
83004	160000	19.58	8.31	75.4	6.71	0
83004	170000	19.59	8.31	75.2	6.69	0
83004	180000	19.54	8.34	75.6	6.74	0
83004	190000	19.42	8.29	73.9	6.60	0
83004	200000	19.39	8.28	73.3	6.55	0
83004	210000	19.37	8.32	74.3	6.64	0
83004	220000	19.37	8.34	73.2	6.54	0
83004	230000	19.34	8.28	73.4	6.57	0
83104	0	19.32	8.29	72.5	6.49	0
83104	10000	19.28	8.31	73.9	6.62	0
83104	20000	19.29	8.31	73.9	6.61	0
83104	30000	19.25	8.34	74.8	6.70	0
83104	40000	19.27	8.33	75.4	6.75	0
83104	50000	19.28	8.36	74.8	6.70	0
83104	60000	19.29	8.39	76.8	6.87	0
83104	70000	19.25	8.42	78.1	7.00	0
83104	80000	19.26	8.43	79.7	7.14	0
83104	90000	19.45	8.47	81.3	7.25	0
83104	100000	19.66	8.54	81.9	7.27	0
83104	110000	19.80	8.52	82.4	7.30	0
83104	120000	19.69	8.49	82.0	7.28	0
83104	130000	19.59	8.47	80.9	7.20	0
83104	140000	19.65	8.57	83.1	7.38	0
83104	150000	19.66	8.56	83.2	7.39	0
83104	160000	19.71	8.63	85.3	7.57	0
83104	170000	19.67	8.57	82.9	7.36	0
83104	180000	19.60	8.53	81.8	7.28	0
83104	190000	19.54	8.53	81.1	7.22	0
83104	200000	19.51	8.48	79.6	7.09	0
83104	210000	19.47	8.47	79.6	7.10	0
83104	220000	19.43	8.43	78.5	7.00	0
83104	230000	19.43	8.45	78.5	7.01	0
90104	0	19.46	8.48	80.6	7.19	0
90104	10000	19.49	8.50	80.2	7.15	0
90104	20000	19.47	8.51	80.3	7.16	0
90104	30000	19.45	8.51	80.2	7.15	0

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90104	40000	19.45	8.52	80.3	7.17	0
90104	50000	19.50	8.55	80.6	7.19	0
90104	60000	19.50	8.58	81.4	7.26	0
90104	70000	19.52	8.60	83.0	7.40	0
90104	80000	19.57	8.63	84.3	7.50	0
90104	90000	19.60	8.68	86.8	7.72	0
90104	100000	19.64	8.70	87.6	7.79	0
90104	110000	19.69	8.72	88.7	7.87	0
90104	120000	19.78	8.75	90.1	7.98	0
90104	130000	19.83	8.75	90.1	7.98	0
90104	140000	20.02	8.79	91.5	8.07	0
90104	150000	20.08	8.78	91.0	8.02	0
90104	160000	20.13	8.80	92.2	8.11	0
90104	170000	20.10	8.80	91.8	8.08	0
90104	180000	20.02	8.78	90.8	8.01	0
90104	190000	19.96	8.77	90.3	7.97	0
90104	200000	19.88	8.76	89.3	7.89	0
90104	210000	19.84	8.77	89.2	7.90	0
90104	220000	19.84	8.76	88.9	7.87	0
90104	230000	19.84	8.73	88.0	7.79	0
90204	0	19.82	8.73	87.9	7.78	0
90204	10000	19.83	8.73	87.8	7.77	0
90204	20000	19.82	8.74	88.3	7.82	0
90204	30000	19.79	8.71	86.8	7.69	0
90204	40000	19.75	8.68	85.7	7.60	0
90204	50000	19.69	8.64	83.9	7.45	0
90204	60000	19.62	8.59	81.7	7.26	0
90204	70000	19.59	8.53	80.0	7.12	0
90204	80000	19.57	8.51	80.1	7.13	0
90204	90000	19.56	8.53	80.2	7.14	0
90204	100000	19.72	8.58	81.0	7.19	0
90204	110000	19.77	8.54	80.1	7.10	0
90204	120000	20.19	8.57	82.1	7.22	0
90204	130000	19.98	8.52	80.0	7.06	0
90204	140000	19.80	8.43	76.0	6.73	0
90204	150000	19.83	8.39	75.0	6.64	0
90204	160000	19.64	8.34	73.5	6.53	0
90204	170000	19.77	8.34	75.9	6.73	0
90204	180000	19.54	8.30	72.6	6.46	0
90204	190000	19.71	8.69	90.2	8.01	0
90204	200000	19.63	8.68	90.1	8.01	0
90204	210000	19.57	8.68	90.0	8.01	0
90204	220000	19.56	8.66	91.1	8.11	0
90204	230000	19.60	8.68	91.1	8.10	0
90304	0	19.60	8.67	91.0	8.09	0
90304	10000	19.60	8.65	91.0	8.09	0
90304	20000	19.64	8.66	91.0	8.09	0
90304	30000	19.64	8.65	91.1	8.10	0
90304	40000	19.70	8.67	90.6	8.04	0
90304	50000	19.71	8.68	90.6	8.04	0
90304	60000	19.70	8.68	90.5	8.03	0

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90304	70000	19.71	8.70	90.4	8.02	0
90304	80000	19.76	8.73	90.5	8.02	0
90304	90000	19.93	8.77	90.8	8.02	0
90304	100000	20.09	8.79	91.1	8.02	0
90304	110000	20.30	8.82	91.2	7.99	0
90304	130000	20.46	8.24	97.9	8.59	0
90304	140000	20.37	8.25	97.7	8.59	0
90304	150000	19.98	7.95	83.8	7.43	0
90304	160000	20.23	8.07	87.1	7.68	0
90304	170000	20.02	7.96	84.2	7.46	0
90304	180000	19.78	7.94	82.0	7.29	0
90304	190000	19.66	7.90	80.4	7.17	0
90304	200000	19.70	7.88	79.3	7.07	0
90304	210000	19.55	7.74	73.8	6.60	0
90304	220000	19.61	7.80	78.0	6.97	0
90304	230000	19.68	7.85	80.0	7.13	0
90404	0	19.71	7.93	80.2	7.15	0
90404	10000	19.68	7.87	79.3	7.07	0
90404	20000	19.70	7.92	80.6	7.18	116
90404	30000	19.78	7.93	81.9	7.29	163
90404	40000	19.86	7.96	83.2	7.39	228
90404	50000	19.85	7.97	82.8	7.36	178
90404	60000	19.86	7.96	83.1	7.38	211
90404	70000	19.83	7.96	82.0	7.29	211
90404	80000	19.84	7.98	82.6	7.34	212
90404	90000	19.93	7.95	82.7	7.34	212
90404	100000	20.17	7.99	84.5	7.46	212
90404	110000	20.21	8.00	84.2	7.43	162
90404	120000	20.33	8.04	84.6	7.45	200
90404	130000	20.22	7.93	83.4	7.36	200
90404	140000	20.22	7.97	81.0	7.14	200
90404	150000	20.21	7.90	78.8	6.95	200
90404	160000	19.96	7.85	77.8	6.89	199
90404	170000	19.94	7.91	78.3	6.94	196
90404	180000	19.77	7.84	77.0	6.85	194
90404	190000	19.66	7.80	74.9	6.68	193
90404	200000	19.67	7.78	75.4	6.72	193
90404	210000	19.63	7.77	73.2	6.53	193
90404	220000	19.85	7.98	74.8	6.65	0
90404	230000	19.81	7.81	74.9	6.66	27
90504	0	19.81	7.88	75.2	6.69	27
90504	10000	20.07	7.89	78.0	6.90	27
90504	20000	20.03	7.93	78.3	6.93	27
90504	30000	19.91	7.83	75.1	6.67	27
90504	40000	19.93	7.86	75.4	6.69	27
90504	50000	19.90	7.85	75.0	6.66	27
90504	60000	19.86	7.83	74.0	6.57	27
90504	70000	19.88	7.82	74.0	6.57	27
90504	80000	19.93	7.86	75.6	6.71	27
90504	90000	19.94	7.87	75.5	6.69	27
90504	100000	19.99	7.88	76.3	6.77	27

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90504	110000	19.99	7.86	75.7	6.71	27
90504	120000	20.00	7.84	75.0	6.65	27
90504	130000	19.99	7.82	74.0	6.56	27
90504	140000	19.99	7.79	72.1	6.39	27
90504	150000	19.78	7.71	68.6	6.10	27
90504	160000	19.62	7.69	67.8	6.05	27
90504	170000	19.44	7.64	64.0	5.74	27
90504	180000	19.38	7.65	64.5	5.78	27
90504	190000	19.39	7.68	65.6	5.88	27
90504	200000	19.44	7.68	66.0	5.91	27
90504	210000	19.46	7.68	65.9	5.90	27
90504	220000	19.48	7.68	65.8	5.89	27
90504	230000	19.46	7.67	65.1	5.83	27
90604	0	19.58	7.72	67.8	6.06	27
90604	10000	19.64	7.74	68.7	6.13	27
90604	20000	19.65	7.74	68.5	6.11	27
90604	30000	19.63	7.74	67.9	6.06	27
90604	40000	19.47	7.68	63.6	5.69	27
90604	50000	19.43	7.65	62.4	5.59	27
90604	60000	19.31	7.61	59.3	5.33	27
90604	70000	19.21	7.59	58.4	5.26	27
90604	80000	19.18	7.58	57.7	5.20	27
90604	90000	19.27	7.63	69.5	6.24	27
90604	100000	19.26	7.69	67.9	6.11	27
90604	110000	19.33	7.79	69.6	6.25	0
90604	120000	19.30	7.71	69.7	6.26	0
90604	130000	19.52	7.80	70.1	6.27	0
90604	140000	19.69	7.77	72.7	6.48	0
90604	150000	19.91	7.85	75.0	6.65	0
90604	160000	20.08	7.94	77.3	6.84	0
90604	170000	20.21	7.93	77.8	6.87	0
90604	180000	20.19	7.99	77.3	6.82	0
90604	190000	20.03	7.88	73.8	6.54	0
90604	200000	20.04	7.95	74.3	6.58	0
90604	210000	20.01	7.96	74.5	6.60	0
90604	220000	20.10	8.02	75.0	6.63	0
90604	230000	19.89	7.86	72.6	6.44	0
90704	0	19.91	7.93	73.5	6.52	0
90704	10000	19.94	7.95	74.6	6.62	0
90704	20000	19.89	7.93	75.1	6.67	0
90704	30000	19.84	7.91	73.7	6.55	0
90704	40000	19.88	7.94	74.0	6.57	0
90704	50000	19.81	7.88	72.9	6.49	0
90704	60000	19.75	7.93	71.8	6.39	0
90704	70000	19.60	7.87	70.1	6.26	0
90704	80000	19.63	7.85	71.0	6.34	0
90704	90000	19.74	7.89	73.6	6.55	0
90704	100000	19.89	7.94	74.8	6.64	0
90704	110000	20.00	8.01	78.3	6.94	0
90704	120000	20.16	8.08	81.5	7.19	0
90704	130000	20.38	8.13	82.6	7.26	0

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90704	140000	20.49	8.16	83.1	7.29	0
90704	150000	20.48	8.16	84.5	7.41	0
90704	160000	20.52	8.18	84.8	7.44	45
90704	170000	20.54	8.25	85.1	7.45	27
90704	180000	20.54	8.20	85.4	7.49	27
90704	190000	20.52	8.19	84.4	7.40	27
90704	200000	20.40	8.15	81.7	7.18	27
90704	210000	20.35	8.13	82.2	7.23	27
90704	220000	20.23	8.11	79.5	7.01	27
90704	230000	20.12	8.05	78.4	6.93	27
90804	0	20.04	8.04	77.2	6.84	27
90804	10000	19.95	7.98	74.9	6.64	27
90804	20000	19.95	7.98	76.1	6.75	27
90804	30000	19.89	8.02	77.4	6.87	27
90804	40000	19.81	8.03	75.1	6.68	27
90804	50000	19.74	8.03	75.8	6.75	27
90804	60000	19.71	8.04	77.2	6.88	27
90804	70000	19.70	8.07	78.1	6.96	27
90804	80000	19.76	8.13	80.8	7.20	27
90804	90000	19.99	8.21	84.1	7.45	27
90804	100000	20.19	8.29	86.2	7.61	27
90804	110000	20.42	8.32	87.9	7.72	27
90804	120000	20.65	8.34	88.8	7.77	27
90804	130000	20.85	8.35	89.6	7.80	27
90804	140000	20.84	8.31	88.2	7.69	27
90804	150000	20.93	8.31	87.4	7.60	27
90804	160000	20.73	8.28	86.1	7.52	27
90804	170000	20.61	8.29	85.7	7.50	27
90804	180000	20.52	8.26	85.1	7.46	27
90804	190000	20.41	8.25	84.0	7.38	27
90804	200000	20.32	8.23	83.9	7.38	27
90804	210000	20.29	8.21	82.8	7.29	27
90804	220000	20.25	8.22	82.7	7.29	27
90804	230000	20.13	8.14	80.2	7.08	27
90904	0	19.98	8.06	78.0	6.91	27
90904	10000	19.87	8.06	77.1	6.85	27
90904	20000	19.84	8.04	77.6	6.90	27
90904	30000	19.89	8.08	78.1	6.93	27
90904	40000	19.87	8.12	79.2	7.03	27
90904	50000	19.83	8.13	79.5	7.07	27
90904	60000	19.82	8.14	80.0	7.11	27
90904	70000	19.80	8.18	80.9	7.19	27
90904	80000	19.81	8.20	82.1	7.30	27
90904	90000	19.94	8.25	83.8	7.43	27
90904	100000	20.14	8.29	85.4	7.54	27
90904	110000	20.32	8.28	85.1	7.49	27
90904	120000	20.34	8.19	82.4	7.25	27
90904	130000	20.32	8.15	81.1	7.14	27
90904	140000	20.33	8.16	79.7	7.02	27
90904	150000	20.22	8.15	78.8	6.95	27
90904	160000	20.18	8.12	79.7	7.03	27

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90904	170000	20.04	8.09	77.8	6.88	27
90904	180000	19.96	8.07	76.6	6.79	27
90904	190000	19.81	8.00	74.0	6.58	27
90904	200000	19.71	8.00	74.6	6.65	27
90904	210000	19.66	7.99	72.8	6.50	27
90904	220000	19.59	7.96	71.9	6.42	27
90904	230000	19.57	7.95	71.9	6.43	27
91004	0	19.55	7.99	72.4	6.47	27
91004	10000	19.55	7.95	72.5	6.48	27
91004	20000	19.54	7.98	72.9	6.52	27
91004	30000	19.55	7.96	73.8	6.59	27
91004	40000	19.51	7.95	71.5	6.40	27
91004	50000	19.48	7.95	71.6	6.41	27
91004	60000	19.46	7.93	71.8	6.43	27
91004	70000	19.45	7.94	72.6	6.50	27
91004	80000	19.52	7.96	72.8	6.51	27
91004	90000	19.62	8.01	74.6	6.66	27
91004	100000	19.75	8.02	75.1	6.68	27
91004	110000	19.78	8.00	77.6	6.92	27
91004	120000	19.82	8.06	76.8	6.85	27
91004	130000	19.75	7.95	75.3	6.72	27
91004	140000	19.84	7.97	75.7	6.75	27
91004	150000	19.75	7.92	74.9	6.68	27
91004	160000	19.55	7.92	71.8	6.44	27
91004	170000	19.38	7.76	68.8	6.19	27
91004	180000	19.25	7.75	65.6	5.92	27
91004	190000	19.21	7.76	67	6.04	27
91004	200000	19.21	7.71	65.2	5.88	27
91004	210000	19.23	7.72	62.5	5.64	27
91004	220000	19.29	7.70	65.1	5.87	27
91004	230000	19.34	7.73	64.3	5.79	27
91104	0	19.33	7.72	64.7	5.82	27
91104	10000	19.37	7.77	65.7	5.91	27
91104	20000	19.46	7.85	71	6.38	27
91104	30000	19.48	7.84	70.3	6.31	27
91104	40000	19.48	7.83	72.2	6.48	27
91104	50000	19.51	7.88	71	6.37	27
91104	60000	19.49	7.84	70.1	6.29	27
91104	70000	19.46	7.83	69.5	6.24	27
91104	80000	19.46	7.83	70.4	6.32	27
91104	90000	19.53	7.85	72.1	6.46	27
91104	100000	19.52	7.84	70	6.28	27
91104	110000	19.68	7.93	73.1	6.53	27
91104	120000	19.68	7.89	72.3	6.46	27
91104	130000	19.88	7.92	74.4	6.63	27
91104	140000	20.02	8.00	76	6.75	27
91104	150000	19.85	7.93	74	6.59	27
91104	160000	19.94	7.97	74.2	6.60	27
91104	170000	19.87	7.96	72.7	6.48	27
91104	180000	19.89	8.03	72.7	6.47	27
91104	190000	19.86	7.98	73.7	6.57	27

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91104	200000	19.85	7.95	72.2	6.43	27
91104	210000	19.92	7.99	74.3	6.61	27
91104	220000	19.85	7.97	73.3	6.53	27
91104	230000	19.87	8.00	72.7	6.48	27
91204	0	19.91	8.05	72.7	6.47	27
91204	10000	19.92	8.08	74.7	6.64	27
91204	20000	19.93	8.09	74.9	6.67	27
91204	30000	19.92	8.08	75.3	6.70	27
91204	40000	19.87	8.07	75.2	6.70	27
91204	50000	19.87	8.05	73.7	6.56	27
91204	60000	19.87	8.07	74.9	6.67	27
91204	70000	19.91	8.08	74.6	6.64	27
91204	80000	20.02	8.13	75.8	6.73	27
91204	90000	20.09	8.15	78.8	6.99	27
91204	100000	20.12	8.20	78.6	6.97	27
91204	110000	20.25	8.23	80.9	7.15	27
91204	120000	20.28	8.23	80.1	7.08	27
91204	130000	20.28	8.24	79.9	7.06	27
91204	140000	20.23	8.18	78.5	6.94	27
91204	150000	20.43	8.23	78	6.87	27
91204	160000	20.24	8.13	76.5	6.77	27
91204	170000	20.29	8.17	76.5	6.76	27
91204	180000	20.15	8.13	76.2	6.75	27
91204	190000	20.03	8.10	74.2	6.59	27
91204	200000	19.93	8.05	73.9	6.57	27
91204	210000	19.86	7.98	70.8	6.31	27
91204	220000	19.85	7.97	71.7	6.39	27
91204	230000	19.82	7.99	70.8	6.31	27
91304	0	19.82	8.07	70.9	6.32	27
91304	10000	19.84	8.03	70.5	6.29	27
91304	20000	19.84	7.99	72.3	6.44	27
91304	30000	19.88	8.04	71.6	6.37	27
91304	40000	19.90	8.04	72.5	6.45	27
91304	50000	19.92	8.08	72.9	6.49	27
91304	60000	19.92	8.08	74.2	6.60	27
91304	70000	19.92	8.10	74	6.59	27
91304	80000	19.96	8.14	76	6.76	27
91304	90000	20.06	8.14	77.2	6.85	27
91304	100000	20.19	8.18	77	6.81	27
91304	110000	20.32	8.17	79.4	7.01	27
91304	120000	20.30	8.12	76.2	6.73	27
91304	130000	20.53	8.17	76.6	6.73	27
91304	140000	20.17	8.05	73.3	6.49	27
91304	150000	20.00	7.99	69.4	6.17	27
91304	160000	19.76	7.89	67	5.98	27
91304	170000	19.64	7.82	64.5	5.77	27
91304	180000	19.56	7.82	61.1	5.47	27
91304	190000	19.81	8.18	85.5	7.62	27
91304	200000	19.86	8.16	85.7	7.63	27
91304	210000	19.90	8.18	85.7	7.63	27
91304	220000	19.88	8.17	85.6	7.62	27

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91304	230000	19.89	8.17	85.4	7.60	27
91404	0	19.92	8.17	85.5	7.61	27
91404	10000	19.94	8.19	86.3	7.67	27
91404	20000	19.98	8.19	86.1	7.65	27
91404	30000	20.00	8.19	85.5	7.60	27
91404	40000	20.04	8.21	84.2	7.47	27
91404	50000	20.09	8.24	84.1	7.46	27
91404	60000	20.09	8.26	84.5	7.50	27
91404	70000	20.10	8.26	84.2	7.46	27
91404	80000	20.14	8.28	84.7	7.50	27
91404	90000	20.16	8.28	84.1	7.45	27
91404	100000	20.29	8.30	84.1	7.43	27
91404	110000	20.30	8.30	83.7	7.39	27
91404	120000	20.37	8.31	83.8	7.39	27
91404	130000	20.27	8.29	83.5	7.38	27
91404	140000	20.23	8.28	82.7	7.32	27
91404	150000	20.27	8.29	84.2	7.44	27
91404	160000	20.38	8.31	84.1	7.41	27
91404	170000	20.40	8.31	83.4	7.35	27
91404	180000	20.43	8.31	83	7.31	27
91404	190000	20.49	8.32	83.4	7.34	27
91404	200000	20.54	8.31	82.9	7.28	27
91404	210000	20.55	8.30	82.7	7.26	27
91404	220000	20.61	8.32	82.8	7.26	27
91404	230000	20.56	8.33	82.2	7.22	27
91504	0	20.54	8.34	82.5	7.25	27
91504	10000	20.56	8.34	82.7	7.27	27
91504	20000	20.62	8.35	82.7	7.26	49
91504	30000	20.62	8.36	82.7	7.26	81
91504	40000	20.63	8.36	82.7	7.26	81
91504	50000	20.59	8.36	82.6	7.25	81
91504	60000	20.55	8.34	82.8	7.28	81
91504	70000	20.56	8.34	82.6	7.26	81
91504	80000	20.58	8.34	82.8	7.27	81
91504	90000	20.59	8.34	82.9	7.28	81
91504	100000	20.59	8.35	82.6	7.25	81
91504	110000	20.58	8.34	82.7	7.26	81
91504	120000	20.58	8.34	82.9	7.28	81
91504	130000	20.58	8.33	83.1	7.30	81
91504	140000	20.35	8.31	83.2	7.34	81
91504	150000	20.18	8.28	82.6	7.32	81
91504	160000	20.12	8.27	82.8	7.32	81
91504	170000	19.94	8.25	83.2	7.40	81
91504	180000	19.78	8.23	82.5	7.36	81
91504	190000	19.89	8.24	82.2	7.32	81
91504	200000	19.86	8.24	82.2	7.33	81
91504	210000	19.84	8.23	82.4	7.34	81
91504	220000	19.62	8.22	81.7	7.31	81
91504	230000	19.53	8.22	82	7.35	81
91604	0	19.53	8.22	82.3	7.38	81
91604	10000	19.48	8.22	82	7.36	81

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91604	20000	19.53	8.23	82.5	7.40	81
91604	30000	19.51	8.24	82.2	7.37	81
91604	40000	19.44	8.24	83.8	7.53	81
91604	50000	19.43	8.24	84	7.55	81
91604	60000	19.36	8.26	84.2	7.57	81
91604	70000	19.30	8.25	84.5	7.61	81
91604	80000	19.28	8.27	84.8	7.64	81
91604	90000	19.34	8.28	85.2	7.67	81
91604	100000	19.42	8.29	85.7	7.70	81
91604	110000	19.60	8.20	75.7	6.78	81
91604	120000	19.73	8.21	77.5	6.92	81
91604	130000	19.76	8.23	77.2	6.89	81
91604	140000	19.83	8.26	77.8	6.93	81
91604	150000	19.91	8.22	76.7	6.83	81
91604	160000	19.98	8.25	78.1	6.94	81
91604	170000	19.92	8.23	76.6	6.81	81
91604	180000	19.82	8.24	76.7	6.84	81
91604	190000	19.79	8.24	76.3	6.80	81
91604	200000	19.78	8.23	76.3	6.81	81
91604	210000	19.72	8.22	76.3	6.82	81
91604	220000	19.71	8.21	76.1	6.80	81
91604	230000	19.61	8.21	75.8	6.78	81
91704	0	19.54	8.22	76.3	6.84	81
91704	10000	19.35	8.23	77	6.93	81
91704	20000	19.47	8.21	75.1	6.74	81
91704	30000	19.35	8.21	75.8	6.82	81
91704	40000	19.47	8.19	75	6.73	81
91704	50000	19.45	8.19	74.4	6.68	81
91704	60000	19.42	8.18	73.8	6.63	81
91704	70000	19.41	8.18	74.8	6.72	81
91704	80000	19.27	8.21	75.3	6.79	81
91704	90000	19.32	8.25	77.8	7.01	81
91704	100000	19.55	8.27	77.4	6.93	81
91704	110000	19.77	8.30	78.4	7.00	81
91704	120000	19.92	8.27	76.9	6.84	81
91704	130000	19.96	8.28	76.9	6.84	81
91704	140000	19.90	8.27	77.3	6.88	81
91704	150000	19.83	8.27	77	6.86	81
91704	160000	19.82	8.29	77.2	6.88	81
91704	170000	19.72	8.27	76.1	6.80	81
91704	180000	19.60	8.24	74.6	6.68	73
91704	190000	19.53	8.20	73.6	6.60	54
91704	200000	19.50	8.17	72.3	6.49	54
91704	210000	19.50	8.18	72.5	6.51	54
91704	220000	19.49	8.17	72.7	6.52	54
91704	230000	19.48	8.17	72.7	6.53	54
91804	0	19.47	8.17	72.8	6.54	54
91804	10000	19.47	8.17	72.6	6.52	54
91804	20000	19.47	8.18	73	6.55	54
91804	30000	19.41	8.18	73.3	6.59	54
91804	40000	19.40	8.18	73.4	6.60	54

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91804	50000	19.35	8.19	73.3	6.60	54
91804	60000	19.34	8.19	73.5	6.62	54
91804	70000	19.30	8.20	74.2	6.68	54
91804	80000	19.32	8.22	75.4	6.79	54
91804	90000	19.38	8.26	76.8	6.91	54
91804	100000	19.55	8.28	78	6.99	54
91804	110000	19.68	8.30	78.8	7.05	54
91804	120000	19.82	8.31	79.5	7.09	54
91804	130000	19.91	8.32	79.7	7.09	54
91804	140000	19.89	8.33	79.9	7.11	54
91804	150000	19.83	8.32	79.3	7.07	54
91804	160000	19.78	8.31	79	7.05	54
91804	170000	19.71	8.32	79	7.06	54
91804	180000	19.58	8.29	77.4	6.93	54
91804	190000	19.52	8.26	76.1	6.83	12
91804	200000	19.48	8.24	75.4	6.76	0
91804	210000	19.43	8.23	74.2	6.67	0
91804	220000	19.42	8.21	74.2	6.67	0
91804	230000	19.42	8.22	73.9	6.64	0
91904	0	19.41	8.22	74.1	6.66	0
91904	10000	19.40	8.22	74	6.65	0
91904	20000	19.39	8.22	74	6.66	0
91904	30000	19.37	8.19	72.9	6.56	0
91904	40000	19.43	8.21	73.8	6.63	0
91904	50000	19.42	8.22	74.4	6.68	0
91904	60000	19.40	8.22	73.8	6.63	0
91904	70000	19.40	8.23	74.1	6.66	0
91904	80000	19.40	8.24	74.9	6.74	0
91904	90000	19.46	8.28	76.2	6.84	0
91904	100000	19.58	8.31	77.4	6.93	0
91904	110000	19.61	8.33	77.6	6.94	0
91904	120000	19.68	8.32	78.3	7.00	0
91904	130000	19.63	8.27	76.7	6.86	0
91904	140000	19.53	8.24	75.6	6.78	0
91904	150000	19.58	8.26	76.2	6.82	0
91904	160000	19.55	8.26	75.3	6.75	0
91904	170000	19.51	8.25	74.2	6.65	0
91904	180000	19.44	8.19	72.5	6.51	0
91904	190000	19.42	8.16	71.4	6.41	0
91904	200000	19.46	8.17	71.9	6.45	0
91904	210000	19.49	8.17	71.8	6.44	0
91904	220000	19.48	8.15	71.5	6.41	0
91904	230000	19.48	8.16	70.8	6.36	0
92004	0	19.47	8.16	70.7	6.34	0
92004	10000	19.48	8.16	70.5	6.33	0
92004	20000	19.48	8.16	71.9	6.46	0
92004	30000	19.46	8.17	72.2	6.48	0
92004	40000	19.42	8.16	70.3	6.32	0
92004	50000	19.41	8.16	70.8	6.35	0
92004	60000	19.36	8.16	70.2	6.32	0
92004	70000	19.35	8.16	70.4	6.34	0

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92004	80000	19.36	8.18	70.9	6.38	0
92004	90000	19.39	8.23	72.7	6.54	0
92004	100000	19.47	8.30	74.9	6.73	0
92004	110000	19.56	8.34	77.1	6.91	0
92004	120000	19.73	8.04	90.4	8.08	0
92004	130000	19.70	8.08	89.8	8.04	0
92004	140000	19.67	8.06	88.0	7.88	0
92004	150000	19.69	8.07	87.8	7.85	0
92004	160000	19.70	8.04	86.3	7.73	0
92004	170000	19.64	8.02	85.6	7.67	0
92004	180000	19.55	7.97	83.5	7.49	0
92004	190000	19.49	7.93	81.4	7.32	0
92004	200000	19.51	7.93	81.7	7.34	0
92004	210000	19.53	7.92	81.3	7.30	0
92004	220000	19.53	7.92	81.1	7.29	0
92004	230000	19.48	7.89	79.9	7.18	0
92104	0	19.47	7.88	79.5	7.15	0
92104	10000	19.43	7.87	79.1	7.11	0
92104	20000	19.40	7.88	79.2	7.13	0
92104	30000	19.39	7.87	79.0	7.12	0
92104	40000	19.28	7.88	77.9	7.03	0
92104	50000	19.28	7.87	77.2	6.97	0
92104	60000	19.23	7.87	77.5	7.00	0
92104	70000	19.26	7.86	77.0	6.95	0
92104	80000	19.26	7.89	78.3	7.07	0
92104	90000	19.34	7.93	80.2	7.23	0
92104	100000	19.46	7.97	82.0	7.38	0
92104	110000	19.55	8.00	82.9	7.44	0
92104	120000	19.65	8.03	84.5	7.57	0
92104	130000	19.69	8.05	85.5	7.65	0
92104	140000	19.74	8.03	84.5	7.55	0
92104	150000	19.86	8.06	86.0	7.67	0
92104	160000	19.76	8.05	85.4	7.64	0
92104	170000	19.62	8.03	84.1	7.54	0
92104	180000	19.50	8.02	82.9	7.44	0
92104	190000	19.49	7.99	82.0	7.37	0
92104	200000	19.53	7.98	82.0	7.36	0
92104	210000	19.50	7.98	81.8	7.35	0
92104	220000	19.48	7.98	81.3	7.31	0
92104	230000	19.46	7.97	81.0	7.28	0
92204	0	19.43	7.96	80.7	7.26	0
92204	10000	19.44	7.96	80.5	7.24	0
92204	20000	19.44	7.96	80.8	7.27	0
92204	30000	19.45	7.96	80.9	7.27	0
92204	40000	19.43	7.96	80.5	7.24	0
92204	50000	19.44	7.96	80.7	7.26	0
92204	60000	19.46	7.96	80.7	7.26	0
92204	70000	19.45	7.97	81.0	7.28	0
92204	80000	19.44	7.96	81.6	7.34	0
92204	90000	19.52	8.01	82.9	7.44	0
92204	100000	19.64	8.04	84.2	7.54	0

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92204	110000	19.77	8.06	85.2	7.61	0
92204	120000	19.88	8.11	86.9	7.74	0
92204	130000	20.00	8.14	88.3	7.85	0
92204	140000	20.01	8.17	89.6	7.96	0
92204	150000	19.93	8.18	89.5	7.97	0
92204	160000	19.88	8.18	89.5	7.98	0
92204	170000	19.74	8.16	88.4	7.91	0
92204	180000	19.64	8.13	86.5	7.75	0
92204	190000	19.57	8.10	85.2	7.64	0
92204	200000	19.50	8.07	84.0	7.54	0
92204	210000	19.54	8.08	84.7	7.60	0
92204	220000	19.52	8.05	83.5	7.50	0
92204	230000	19.51	8.05	83.1	7.46	0
92304	0	19.51	8.04	82.8	7.44	0
92304	10000	19.52	8.04	83.1	7.46	0
92304	20000	19.50	8.05	82.9	7.45	0
92304	30000	19.48	8.04	82.6	7.43	0
92304	40000	19.46	8.04	83.1	7.48	0
92304	50000	19.45	8.05	83.7	7.53	0
92304	60000	19.47	8.08	84.6	7.60	0
92304	70000	19.48	8.11	85.7	7.71	0
92304	80000	19.48	8.13	86.6	7.78	0
92304	90000	19.56	8.17	88.9	7.98	0
92304	100000	19.81	8.23	91.5	8.17	0
92304	110000	19.96	8.25	92.5	8.23	0
92304	120000	20.01	8.23	92.0	8.18	0
92304	130000	20.00	8.22	90.9	8.08	0
92304	140000	19.94	8.20	90.0	8.02	0
92304	150000	19.93	8.20	89.4	7.96	0
92304	160000	19.83	8.18	88.5	7.90	0
92304	170000	19.73	8.15	86.8	7.76	0
92304	180000	19.56	8.06	82.7	7.42	0
92304	190000	19.47	7.99	79.9	7.18	0
92304	200000	19.43	7.97	79.0	7.10	0
92304	210000	19.40	7.95	77.8	7.00	0
92304	220000	19.41	7.95	77.7	6.99	0
92304	230000	19.43	7.93	76.9	6.92	0
92404	0	19.38	7.87	74.2	6.68	0
92404	10000	19.36	7.85	73.1	6.58	0
92404	20000	19.39	7.90	75.2	6.77	0
92404	30000	19.42	7.93	76.2	6.86	0
92404	40000	19.38	7.93	76.0	6.85	0
92404	50000	19.35	7.93	76.3	6.88	0
92404	60000	19.34	7.94	76.5	6.89	0
92404	70000	19.32	7.96	77.5	6.99	0
92404	80000	19.31	7.97	77.3	6.97	0
92404	90000	19.36	7.99	77.9	7.02	0
92404	100000	19.32	7.97	77.8	7.01	0
92404	110000	19.43	7.91	74.3	6.69	0
92404	120000	19.32	7.85	71.5	6.45	0
92404	130000	19.34	7.90	74.2	6.69	0

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92404	140000	19.37	7.96	76.3	6.87	0
92404	150000	19.33	8.00	78.0	7.04	0
92404	160000	19.32	8.00	78.5	7.08	0
92404	170000	19.28	7.99	78.2	7.06	0
92404	180000	19.24	8.00	78.4	7.08	0
92404	190000	19.24	8.00	78.3	7.08	0
92404	200000	19.22	8.00	77.6	7.01	0
92404	210000	19.20	7.99	77.1	6.96	0
92404	220000	19.21	7.99	76.8	6.94	0
92404	230000	19.20	7.97	76.1	6.88	0
92504	0	19.19	7.96	75.7	6.85	0
92504	10000	19.14	7.96	75.6	6.84	0
92504	20000	19.12	7.95	75.1	6.80	0
92504	30000	19.11	7.95	75.0	6.79	0
92504	40000	19.07	7.96	75.0	6.80	0
92504	50000	19.06	7.97	75.1	6.81	0
92504	60000	19.00	7.98	75.5	6.85	0
92504	70000	18.96	7.97	75.2	6.83	0
92504	80000	18.93	7.98	76.2	6.92	0
92504	90000	18.99	7.99	76.2	6.92	0
92504	100000	19.08	8.03	77.6	7.03	0
92504	110000	19.16	8.09	80.2	7.26	0
92504	120000	19.32	8.12	82.0	7.39	0
92504	130000	19.52	8.12	82.9	7.45	0
92504	140000	19.70	8.13	83.2	7.45	0
92504	150000	19.77	8.13	83.8	7.49	0
92504	160000	19.69	8.14	83.5	7.47	0
92504	170000	19.61	8.13	82.9	7.43	0
92504	180000	19.51	8.11	81.3	7.30	0
92504	190000	19.46	8.09	80.5	7.24	0
92504	200000	19.44	8.08	80.2	7.22	0
92504	210000	19.39	8.09	80.3	7.23	0
92504	220000	19.38	8.09	80.2	7.22	0
92504	230000	19.33	8.07	80.1	7.22	0
92604	0	19.31	8.07	79.8	7.20	0
92604	10000	19.28	8.07	79.7	7.19	0
92604	20000	19.28	8.07	79.9	7.21	0
92604	30000	19.23	8.06	79.8	7.21	0
92604	40000	19.18	8.05	78.4	7.09	0
92604	50000	19.15	8.05	78.4	7.10	0
92604	60000	19.07	8.04	78.3	7.10	0
92604	70000	19.09	8.05	78.1	7.08	0
92604	80000	19.03	8.05	78.4	7.11	0
92604	90000	19.17	8.08	80.0	7.23	0
92604	100000	19.37	8.10	80.7	7.27	0
92604	110000	19.52	8.12	81.6	7.33	0
92604	120000	19.61	8.12	82.0	7.35	0
92604	130000	19.63	8.15	82.5	7.39	0
92604	140000	19.63	8.14	82.1	7.36	0
92604	150000	19.56	8.13	81.0	7.27	0
92604	160000	19.51	8.14	80.9	7.26	0

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92604	170000	19.40	8.13	80.1	7.21	0
92604	180000	19.26	8.09	78.4	7.07	0
92604	190000	19.25	8.07	77.3	6.98	0
92604	200000	19.23	8.06	77.2	6.97	0
92604	210000	19.20	8.06	77.4	6.99	0
92604	220000	19.12	8.05	76.7	6.94	0
92604	230000	19.14	8.04	76.2	6.89	0
92704	0	19.14	8.04	75.6	6.84	0
92704	10000	19.08	8.04	75.6	6.85	0
92704	20000	19.05	8.04	75.6	6.85	0
92704	30000	19.04	8.04	75.7	6.86	0
92704	40000	19.04	8.04	75.3	6.83	0
92704	50000	19.00	8.04	76.0	6.90	0
92704	60000	18.99	8.03	76.0	6.90	0
92704	70000	18.96	8.03	75.1	6.82	0
92704	80000	19.00	8.04	75.3	6.83	0
92704	90000	19.05	8.06	76.8	6.96	0
92704	100000	19.17	8.07	76.6	6.93	0
92704	110000	19.24	8.08	77.2	6.97	0
92704	120000	19.42	8.10	78.3	7.04	0
92704	130000	19.61	8.12	78.3	7.02	0
92704	140000	19.39	8.10	77.6	6.99	0
92704	150000	19.34	8.11	77.4	6.98	0
92704	160000	19.34	8.10	77.1	6.95	0
92704	170000	19.47	8.13	79.6	7.15	0
92704	180000	19.42	8.13	79.5	7.15	0
92704	190000	19.38	8.14	79.4	7.15	0
92704	200000	19.31	8.14	79.2	7.15	0
92704	210000	19.23	8.12	78.4	7.08	0
92704	220000	19.19	8.10	77.8	7.04	0
92704	230000	19.16	8.10	78.1	7.07	0
92804	0	19.09	8.08	77.9	7.06	0
92804	10000	19.08	8.08	77.5	7.02	0
92804	20000	19.02	8.08	77.4	7.02	0
92804	30000	18.95	8.07	77.3	7.02	0
92804	40000	18.91	8.07	76.8	6.98	0
92804	50000	18.80	8.06	76.8	7.00	0
92804	60000	18.72	8.06	76.1	6.94	0
92804	70000	18.62	8.06	75.9	6.94	0
92804	80000	18.60	8.07	76.1	6.96	0
92804	90000	18.64	8.10	77.9	7.12	0
92804	100000	18.82	8.12	78.9	7.19	0
92804	110000	18.81	8.14	79.7	7.26	0
92804	120000	18.92	8.16	81.2	7.38	0
92804	130000	19.01	8.17	82.0	7.44	0
92804	140000	19.17	8.18	81.7	7.39	0
92804	150000	19.21	8.17	81.8	7.40	0
92804	160000	19.19	8.16	81.4	7.36	0
92804	170000	19.08	8.16	80.7	7.32	0
92804	180000	18.91	8.13	79.3	7.21	0
92804	190000	18.84	8.10	78.1	7.11	0

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92804	200000	18.76	8.08	77.2	7.04	0
92804	210000	18.71	8.07	76.3	6.96	0
92804	220000	18.63	8.06	76.8	7.00	0
92804	230000	18.62	8.06	76.0	6.95	0
92904	0	18.56	8.06	76.2	6.97	0
92904	10000	18.53	8.06	75.7	6.94	0
92904	20000	18.46	8.05	75.7	6.94	0
92904	30000	18.43	8.05	75.7	6.95	0
92904	40000	18.35	8.05	75.1	6.91	0
92904	50000	18.32	8.04	74.8	6.88	0
92904	60000	18.26	8.04	74.1	6.82	0
92904	70000	18.26	8.03	73.8	6.78	0
92904	80000	18.29	8.05	74.5	6.86	0
92904	90000	18.36	8.06	75.7	6.96	0
92904	100000	18.52	8.11	77.2	7.07	0
92904	110000	18.75	8.13	78.2	7.13	0
92904	120000	18.76	8.12	77.5	7.07	0
92904	130000	18.95	8.15	79.1	7.18	0
92904	140000	18.81	8.13	78.0	7.11	0
92904	150000	18.77	8.14	78.7	7.17	0
92904	160000	18.74	8.13	78.1	7.13	0
92904	170000	18.59	8.11	77.1	7.06	0
92904	180000	18.36	8.07	74.8	6.86	0
92904	190000	18.24	8.04	73.4	6.76	0
92904	200000	18.18	8.03	72.9	6.73	0
92904	210000	18.16	8.04	72.7	6.71	0
92904	220000	18.14	8.04	73.1	6.75	0
92904	230000	18.08	8.05	73.1	6.75	0
93004	0	18.00	8.05	73.5	6.81	0
93004	10000	18.03	8.05	73.1	6.77	0
93004	20000	18.00	8.05	73.4	6.80	0
93004	30000	17.98	8.05	73.2	6.78	0
93004	40000	18.09	8.06	74.9	6.92	0
93004	50000	18.03	8.05	74.7	6.91	0
93004	60000	17.98	8.05	74.5	6.90	0
93004	70000	17.95	8.05	74.7	6.93	0
93004	80000	17.96	8.07	75.8	7.03	0
93004	90000	17.99	8.08	76.0	7.04	0
93004	100000	18.09	8.10	77.8	7.19	0
93004	110000	18.21	8.11	78.4	7.23	0
93004	120000	18.27	8.12	78.9	7.26	0
93004	130000	18.36	8.12	79.2	7.28	0
93004	140000	18.29	8.11	78.8	7.26	0
93004	150000	18.27	8.11	78.6	7.24	0
93004	160000	18.21	8.10	78.1	7.20	0
93004	170000	18.09	8.08	76.5	7.07	0
93004	180000	18.06	8.06	75.8	6.99	0
93004	190000	18.04	8.03	74.9	6.94	0
93004	200000	18.11	8.04	75.1	6.94	0
93004	210000	18.09	8.04	75.4	6.97	0
93004	220000	18.11	8.05	75.5	6.98	0

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93004	230000	18.06	8.04	75.3	6.96	0

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Appendix B

Calibration Data

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Field Notes for Datasonde Deployment

Date/Time: 5/27/04 9:20 Analyst: MLM

Location: High Falls Bridge Datasonde Serial #: 36466

Calibration Information Datasonde Battery [volts]: 6.1

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	6.86	7.02 (7.02)
10.00 Std	10.14	10.06 (10.06)

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.284 Std	0.289	0.284	Before .0000 After .0000

Barometric Pressure (mm Hg) 734.5

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	105.8	100.0
mg/L D.O.	9.30	8.83
Temp – °C	19.20	19.71

YSI calibration (See field notes for YSI Model 95 calibration information) Elev.: 814'

	Before Calibration	After Calibration
% Saturation	103.6	97.0
mg/L D.O.	9.57	8.92
Temp – °C	19.2	19.5

Test Program Readings (Behind Hydro - Out the window) End #'s

	Datasonde	YSI Meter (Must be within 0.5 mg/L D.O.)
% Saturation	82.0	82.7
mg/L D.O.	8.22	8.56
Temp – °C	13.69	13.8

. OK

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.				
Temp – °C				

YSI Reading at Tube

Time	10:55
% Saturation	79.9 %
mg/L D.O.	8.26
Temp – °C	13.8

Check Status

Battery Life @ Start: 100 %

Battery Life @ End: 82 %

Notes: HFBT527.txt: OK

circulator: OK

Weather = 55° + light rain

End Date: 6/4/04 - 170000

* In Plant - raining out.

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Field Notes for Datasonde Post Calibration

Date/Time: 5/27/04 Analyst: MLM

Location: High Falls Bridge Datasonde Serial #: 36465

Ending Datasonde Battery [volts]: 6.1

Calibration Information

* pH (s.u.) Reads *

7.00 Std	5.96
10.00 Std	9.03

Conductivity (mS/cm) 0.284 Std 0.347 Reads

Barometric Pressure (mm Hg) 734.5

Dissolved Oxygen	before cal	after cal
% Saturation	89.3	100.0
mg/L D.O.	8.20	9.08
Temp – °C	18.29	18.34

YSI calibration (See field notes for ~~_____~~ for calibration info.)

% Saturation	
mg/L D.O.	
Temp – °C	

In Plant - Raining out.

Notes:

HFB527.txt - ok

Weather: 55° + light rain

Circulator: ok

PH range (6-9): 5/22 - 220000 to 230000 - 5.97 to 5.99

Low DO (<5) = ok lowest - 6.79

5/23 - 170000 - 5/27 - 040000 - All < 6

* - PH post cal - very low

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Field Notes for Datasonde Deployment

Date/Time: June 4, 2004 11:20 Analyst: LP

Location: High Falls Bridge Datasonde Serial #: 364467

Calibration Information Datasonde Battery [volts]: 5.8 V

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	6.72	7.00
10.00 Std	9.82	

Neco ph Probe

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.284 Std	0.289	0.284	Before 0.000 After 0.000

Barometric Pressure (mm Hg) 29.5" Hg, 743 mm Hg

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	123.3%	100.0%
mg/L D.O.	10.42 mg/L	8.47 mg/L
Temp – °C	22.43°C	22.42°C

YSI calibration (See field notes for YSI Model 95 MEA calibration information)

	Before Calibration	After Calibration
% Saturation	121.2%	97.2%
mg/L D.O.	10.07 mg/L	8.06 mg/L
Temp – °C	24.8°C	24.8°C

New memb. on 6/3/04
Cal. elev. @ 8

Test Program Readings

	Datasonde	YSI Meter (Must be within 0.5 mg/L D.O.)
% Saturation	89.1%	92.7%
mg/L D.O.	8.75 mg/L	9.21 mg/L
Temp – °C	15.17°C	15.2°C

Ran off Fishing Bridge

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.	Deploy			
Temp – °C				

YSI Reading at Tube – outside Tube

Time	12:20
% Saturation	90.8%
mg/L D.O.	9.19 mg/L
Temp – °C	15.0°C

Check Status

Battery Life @ Start: 81% 6/4/04
Battery Life @ End: 41% 6/14/04 > OK

Notes: Clear, light wind, 65°F

Test program named HFT0604.txt

Circulator test ⇒ OK

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Field Notes for Datasonde Post Calibration

Date/Time: June 4, 2004 11:50 Analyst: HR

Location: High Falls Bridge Datasonde Serial #: 364666

Ending Datasonde Battery [volts]: 6.0 V

Calibration Information

pH (s.u.)	Reads
7.00 Std	7.33
10.00 Std	10.29

Zero Cond. Reads 0.0000

Conductivity (mS/cm) 0.284 Std 0.279 Reads

Barometric Pressure (mm Hg) 743 mm Hg

Dissolved Oxygen	before cal	after cal
% Saturation	95.5%	100.0%
mg/L D.O.	8.30 mg/L	8.79 mg/L
Temp – °C	20.56 °C	20.54 °C

YSI calibration (See field notes for _____ for calibration info.)

% Saturation	X
mg/L D.O.	
Temp – °C	

Notes:

Setup for D.O. Calibration, Download file named HF060404.txt, then Calibrate D.O. and read other parameters.

low D.O. reading on 05/30/04 @ 12:00 7.96 mg/L, 80.1% @ 14.08°C; ph values look good. Circulator works good.

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Field Notes for Datasonde Deployment

Date/Time: June 14, 2004 10:30 Analyst: HR

Location: High Falls Bridge Datasonde Serial #: 36468

Calibration Information Datasonde Battery [volts]: 6.2 V

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	7.33	7.00
10.00 Std	9.97	10.00

Conductivity (mS/cm)		Before Cal.	After Cal.	Zero Conductivity Calibration
0.284	Std	0.285	0.284	Before 0.000 After 0.000

Barometric Pressure (mm Hg) 28.80" Hg, 732 mm Hg

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	106.5%	100.0%
mg/L D.O.	9.18 mg/L	8.51 mg/L
Temp – °C	21.43°C	21.41°C

YSI calibration (See field notes for YSI Model 95 MEA calibration information)

	Before Calibration	After Calibration	
% Saturation	84.8%	97.0%	Cal. elev. @ 8
mg/L D.O.	7.12 mg/L	8.14 mg/L	
Temp – °C	24.2°C	24.2°C	New memb. cap on 6/3/04

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	86.0%	87.2%	
mg/L D.O.	7.36 mg/L	8.30 mg/L	Ran off Fishing Bridge
Temp – °C	17.85°C	17.9°C	

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation	Deploy			
mg/L D.O.				
Temp – °C				

YSI Reading at Tube - outside Tube

Time	11:45
% Saturation	87.2%
mg/L D.O.	8.56 mg/L
Temp – °C	17.9

Check Status

Battery Life @ Start: 100% > ok

Battery Life @ End: 59%

Notes: Cloudy, light rain, 65°F

Test File named HFBT0614.txt

Circulator cleaned on 6/11/04, works good.

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Field Notes for Datasonde Post Calibration

Date/Time: June 14, 2004 Analyst: HP

Location: High Falls Bridge Datasonde Serial #: 364607

Ending Datasonde Battery [volts]: 5.8

Calibration Information

pH (s.u.)	Reads
7.00 Std	8.38
10.00 Std	11.13

> change ref. sol.

Conductivity (mS/cm) 0.284 Std 6.287 Reads

Barometric Pressure (mm Hg) 732 mm Hg

Dissolved Oxygen	before cal	after cal
% Saturation	90.6%	100.0%
mg/L D.O.	8.01 mg/L	8.73 mg/L
Temp – °C	20.18°C	20.15°C

YSI calibration (See field notes for _____ for calibration info.)

% Saturation	
mg/L D.O.	
Temp – °C	

Notes:

Setup for D.O. calibration w/ tap water, Calibrate D.O. and then read other parameters.

Low D.O. on 6/14/04 @ 11:00 w/ 6.82 mg/L, 73.3% @ 17.77°C

ph values range is in 7.20 to 7.50

Circulator test ⇒ ok

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Field Notes for Datasonde Deployment

Date/Time: June 24, 2004 9:00 Analyst: HP

Location: High Falls Bridge Datasonde Serial #: 364665

Calibration Information Datasonde Battery [volts]: 5.9 V

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	6.80	7.00
10.00 Std	10.08	10.00

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.284 Std	0.284	0.284	Before 0.000 After 0.000

Barometric Pressure (mm Hg) 29.25" Hg, 743 mm Hg

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	88.1%	100.0%
mg/L D.O.	8.30 mg/L	9.20 mg/L
Temp – °C	18.25°C	18.23°C

YSI calibration (See field notes for YSI Model 95 MEA calibration information)

	Before Calibration	After Calibration
% Saturation	69.5%	97.1%
mg/L D.O.	6.42 mg/L	9.00 mg/L
Temp – °C	19.2°C	19.2°C

Cal. elev. @ 8

New cap memb. on 6/23/04

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	~~69.5~~ 84.9%	82.5%	
mg/L D.O.	7.67 mg/L	7.60 mg/L	> ran off fishing Bridge
Temp – °C	19.15°C	19.20°C	

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.		Deploy		
Temp – °C				

YSI Reading at Tube – outside of tube

Time	10:00
% Saturation	80.7%
mg/L D.O.	7.41 mg/L
Temp – °C	19.4°C

Check Status

Battery Life @ Start: 89%

Battery Life @ End: 56%

> ok

Notes: mostly cloudy, light wind, 50°F

Test file named HFBT0623.Ext

Circulator test ⇒ OK

File setup through 7/2/04 until 17:00

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Field Notes for Datasonde Post Calibration

Date/Time: June 24, 2004 Analyst: HP

Location: High Falls Bridge Datasonde Serial #: 360468

Ending Datasonde Battery [volts]: 6.2V

Calibration Information

pH (s.u.)	Reads
7.00 Std	7.33
10.00 Std	10.38

Zero Cond. Reads

Conductivity (mS/cm) 0.284 Std 0.277 Reads 0.000

Barometric Pressure (mm Hg) 29.25" Hg, 743mm Hg

Dissolved Oxygen	before cal	after cal
% Saturation	87.4%	100.0%
mg/L D.O.	8.08 mg/L	9.41 mg/L
Temp – °C	17.19°C	17.14°C

YSI calibration (See field notes for — for calibration info.)

% Saturation	X
mg/L D.O.	
Temp – °C	

Notes:

Setup for D.O. calibration w/ tap water, then download file named HFB0624.EXE and read other parameters, calibrate D.O. first. Bio-accumulation is minimal. low D.O. value, 6.11 mg/L @ 67.7% @ 18.5°C on 6/24/04 @ 20:00 ph range 7.25 to 7.72 (OK) Circulator test => works good.

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Field Notes for Datasonde Deployment

Date/Time: July 1, 2004 9:20 Analyst: MLM

Location: High Falls Bridge Datasonde Serial #: 36464

Calibration Information Datasonde Battery [volts]: 6.3

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	8.11	7.00
10.00 Std	9.98	10.00

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.285 Std	0.288	0.285	Before .0000 After .0000

Barometric Pressure (mm Hg) 743.5

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	94.7	100.0
mg/L D.O.	7.64	8.09
Temp – °C	24.97	24.94

YSI calibration (See field notes for YSI Model 95 calibration information) Elev. 814'

	Before Calibration	After Calibration
% Saturation	98.4	99.1
mg/L D.O.	8.08	8.21
Temp – °C	23.7	23.7

Test Program Readings (Must be within 0.5 mg/L D.O.) End #'s

	Datasonde	YSI Meter (By Tube)	YSI readings
% Saturation	~~7.30~~ 81.7 %	~~83.2~~ 83.7 %	- OK → 84.7 %
mg/L D.O.	7.30	~~7.58~~	7.72
Temp – °C	19.75	~~19.9~~	19.9

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation		OK		
mg/L D.O.				
Temp – °C				

YSI Reading at Tube

Time	~~9:~~ 9:50
% Saturation	83.2 %
mg/L D.O.	7.58
Temp – °C	19.9

Check Status

Battery Life @ Start: 100 %

Battery Life @ End: 82 %

Notes: NFBT701.txt: ok

circulator: ok

weather: mostly cloudy + 70° - winds - 5 MPH

End Date: 7/9/04 - 170000

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Field Notes for Datasonde Post Calibration

Date/Time: July 1, 2004 10:20 Analyst: MLM

Location: High Falls Bridge Datasonde Serial #: 36465

Ending Datasonde Battery [volts]: 5.9

Calibration Information

pH (s.u.)	Reads
7.00 Std	7.64
10.00 Std	10.65

With circulator on. Can't turn off cause still in TTY mode and can't get out. Zero Cond. Reads

Conductivity (mS/cm) 0.285 Std 0.324 Reads .0000

Barometric Pressure (mm Hg) 747.5

In lab at 130000. Finally got it out of TTY mode.

Dissolved Oxygen	before cal	after cal
% Saturation	109.2%	100.0
mg/L D.O.	9.20	8.47
Temp – °C	22.72	22.73

YSI calibration (See field notes for _____ for calibration info.)

% Saturation	
mg/L D.O.	
Temp – °C	

Notes:

HFB701.txt: ok

Weather: downloaded + post-cal for D.O. in lab.

circulator: ok Jumped from 7.56 to 9.15

PH range (6-9): >9 on 6/26/04 from 220000 - 200000 6/29/04 some more to end.

Low DO (<5): ok. lowest = 5.45 at 210000 on 6/30/04

Can not get hydrolab out of TTY mode.

Came back to lab. set-up and everything ok now. Got me!

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Field Notes for Datasonde Deployment

Date/Time: July 9, 2004 13:00 Analyst: HP

Location: High Falls Bridge Datasonde Serial #: 36467

Calibration Information Datasonde Battery [volts]: 6.3V (New)

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	7.06	7.00
10.00 Std	9.98	10.00

New ph Ref. Sol. on 7/8/04

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.284 Std	0.283	0.284	Before 0.000 After 0.000

Barometric Pressure (mm Hg) 29.15 "Hg, 740 mm Hg

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	123.1%	100.0%
mg/L D.O.	10.13 mg/L	8.14 mg/L
Temp – °C	24.31°C	24.32°C

YSI calibration (See field notes for YSI Model 95 MEA calibration information)

	Before Calibration	After Calibration
% Saturation	96.9%	97.0%
mg/L D.O.	7.98 mg/L	7.98 mg/L
Temp – °C	25.2°C	25.2°C

Cal. elev @ 8

New cap memb. on 6/23/04

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	77.0%	77.1%	Ran off fishing bridge
mg/L D.O.	6.95 mg/L	7.16 mg/L	
Temp – °C	19.6°C	19.1°C	

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.	Deployed			
Temp – °C				

YSI Reading at Tube – outside tube @ probe depth

Time	13:45
% Saturation	74.2%
mg/L D.O.	6.90 mg/L
Temp – °C	18.9°C

Check Status

Battery Life @ Start: 100 %

Battery Life @ End: 60%

Notes: mostly cloudy, 66°F, little wind

test program named HFT0709.txt

circulator tests OK

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Field Notes for Datasonde Post Calibration

Date/Time: July 9, 2004 13:15 Analyst: HP

Location: High Falls Bridge Datasonde Serial #: 364464

Ending Datasonde Battery [volts]: 5.7 (charge)

Calibration Information

pH (s.u.)	Reads
7.00 Std	6.33
10.00 Std	9.38

Zero Cond. reads

Conductivity (mS/cm) 0.284 Std 0.280 Reads 0.0000

Barometric Pressure (mm Hg) 29.15" Hg, 740 mm Hg

Dissolved Oxygen	before cal	after cal
% Saturation	93.8%	100.1%
mg/L D.O.	7.94 mg/L	8.42 mg/L
Temp – °C	22.53°	22.55°

YSI calibration (See field notes for _____ for calibration info.)

% Saturation	X
mg/L D.O.	X
Temp – °C	X

Notes:

Setup for D.O. calibration w/ tap water
download file named HFB07709.txt.
Calibrate D.O. and read other parameters
low D.O. = 5.61 mg/L, 62.1% @ 19.25° on 7/13/04 @ 20:00
ph values = 6.23 to 7.08

Circulator needs cleaning.

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Field Notes for Datasonde Deployment

Date/Time: 7/19/04 10:20 Analyst: MWM

Location: High Falls Bridge Datasonde Serial #: 36465

Calibration Information Datasonde Battery [volts]: 6.1

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	6.40	7.00 @ 24.02°C
10.00 Std	9.91	10.01 @ 23.69°C

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.287 Std	0.285	0.287	Before .0000 After .0000

Barometric Pressure (mm Hg) 758

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	121.2	100.1
mg/L D.O.	9.94	8.31
Temp – °C	24.45	24.45

YSI calibration (See field notes for YSI Model 55 calibration information)

	Before Calibration	After Calibration
% Saturation	103.2	97.2
mg/L D.O.	8.75	8.25
Temp – °C	23.5	23.6

-800'

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	69.6	65.2	
mg/L D.O.	6.30	5.90	-OK- Deploy
Temp – °C	20.02	20.2	

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.				
Temp – °C				

YSI Reading at Tube

Time	10:45
% Saturation	65.2
mg/L D.O.	5.90
Temp – °C	20.2

Check Status

Battery Life @ Start:

Battery Life @ End:

Notes: HF Test 719.TXT

Set up through 5pm on 7/29/04.

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Field Notes for Datasonde Post Calibration

Date/Time: 7/19/04 Analyst: MWM

Location: High Falls Bridge Datasonde Serial #: 36467

Ending Datasonde Battery [volts]: 6.2

Calibration Information

pH (s.u.)	Reads
7.00 Std	7.18 @ 23.93°C
10.00 Std	10.17 @ 25.86°C

Conductivity (mS/cm) 0.287 Std 0.305 Reads

Barometric Pressure (mm Hg) 757

Dissolved Oxygen	before cal	after cal
% Saturation	90.6	100.0
mg/L D.O.	7.41	8.37
Temp – °C	24.06	24.09

YSI calibration (See field notes for _____ for calibration info.)

% Saturation	
mg/L D.O.	
Temp – °C	

Notes:

HF 71904.TXT - OK

End #'s (Delete 11:00 data on 7/19

58.8% sat was not in water)

5.20 mg/L

20.05°C

All D.O. readings are above 5.0 mg/L

All pH readings are OK

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Field Notes for Datasonde Deployment

Date/Time: July 29, 2004 11:30 Analyst: HP

Location: High Falls Bridge Datasonde Serial #: 364464

Calibration Information Datasonde Battery [volts]: 5.8 V

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	8.08	7.00
10.00 Std	10.04	10.00

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.286 Std	0.293	0.286	Before 0.000 After 0.000

Barometric Pressure (mm Hg) 28.81" Hg, 735 mm Hg

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	127.5%	100.0%
mg/L D.O.	10.19 mg/L	7.95 mg/L
Temp – °C	25.24°C	25.24°C

YSI calibration (See field notes for YSI Model 95 MEA calibration information)

	Before Calibration	After Calibration	
% Saturation	94.9%	97.0%	Cal. elev. @ 8
mg/L D.O.	7.60 mg/L	7.77 mg/L	New memb. cap on 7/20/04
Temp – °C	26.7	26.7	

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	95.0%	98.8%	
mg/L D.O.	8.02	8.62 mg/L	Ran off fishing bridge
Temp – °C	~~22.08°C~~ 22.08°C	22.2°C	@ about 4 feet depth

Re-calibration required if outside 0.5 mg/l limit — reeal + re-test

	Before Cal.	After Cal.	Datasonde	YSI	
% Saturation	97.6%	100.0%	93.8%	98.3%	Deploy
mg/L D.O.	7.80 mg/L	7.99 mg/L	7.94 mg/L	8.57	
Temp – °C	24.94°C	24.95°C	21.75	22.0	

YSI Reading at Tube – ~~Outside~~ Inside tube @ datasonde depth

Time	12:50
% Saturation	87.3%
mg/L D.O.	7.87 mg/L
Temp – °C	21.7°C

Check Status
Battery Life @ Start: 77% >OK
Battery Life @ End: 45%

Notes: Cloudy, light rain, no wind, 72°F

test file named HFBT0729.txt

Circulator test

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Field Notes for Datasonde Post Calibration

Date/Time: July 29, 2004 Analyst: HP

Location: High Falls Bridge Datasonde Serial #: 36465

Ending Datasonde Battery [volts]: 6.1 V

Calibration Information

pH (s.u.)	Reads
7.00 Std	6.94
10.00 Std	10.01

Conductivity (mS/cm) 0.286 Std 0.283 Reads 0.000 Zero Reads

Barometric Pressure (mm Hg) 28.81"Hg, 735 mmHg

Dissolved Oxygen	before cal	after cal
% Saturation	86.6%	100.0%
mg/L D.O.	7.15 mg/L	8.02 mg/L
Temp – °C	24.75°C	24.76°C

Gate is open, spill a good amount of water

YSI calibration (See field notes for — for calibration info.)

% Saturation	X
mg/L D.O.	X
Temp – °C	

Notes:

Setup for D.O. calibration w/ tap water, then download file named HFB0729.EXE and calibrated D.O. and read other parameters.

low D.O. value 4.96 mg/L, 54.9% @ 20.16°C on 7/20/04 @ 21:00 - open gate (?) next reading is 5.84 mg/L

pH range => ok 7.3 to 8.3 (couple @ 9.02)

Circulator test => works good

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Field Notes for Datasonde Deployment

Date/Time: Aug. 6, 2004 13:25 Analyst: HP

Location: High Falls Bridge Datasonde Serial #: 364665

Calibration Information Datasonde Battery [volts]: 6.04 (New)

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	6.90	7.00
10.00 Std	10.09	10.00

> New pH Ref. Sol. on 8/8/04

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.286 Std	0.287	0.286	Before 0.000 After 0.000

Barometric Pressure (mm Hg) 29.50" Hg, 743.5 mm Hg

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	98.1%	100.0%
mg/L D.O.	9.53 mg/L	8.15 mg/L
Temp – °C	24.44	24.45°C

YSI calibration (See field notes for YSI Model 95 MEA calibration information)

	Before Calibration	After Calibration
% Saturation	98.0%	97.0%
mg/L D.O.	7.96 mg/L	7.87 mg/L
Temp – °C	26.0°C	26.0°C

Cal. elec. @ 8

New memb. cap on 7/30/04

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	93.7%	95.9%	Ran off fishing bridge
mg/L D.O.	7.75 mg/L	8.11 mg/L	
Temp – °C	23.71	23.7°C	

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.				
Temp – °C				

Deployed

YSI Reading at Tube – outside tube @ Datasonde Depth

Time	13:55
% Saturation	87.3%
mg/L D.O.	7.46 mg/L
Temp – °C	23.3°C

Check Status

Battery Life @ Start: 100% >OK

Battery Life @ End: 75%

Notes: Mostly clear, light wind, 75°F

test program named HFB20806.txt

Circulator test => works good

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Field Notes for Datasonde Post Calibration

Date/Time: Aug. 6, 2004 12:15 Analyst: HP

Location: High Falls Bridge Datasonde Serial #: 36464

Ending Datasonde Battery [volts]: 5.7

Calibration Information

pH (s.u.)	Reads
7.00 Std	6.18
10.00 Std	9.23

Conductivity (mS/cm) 0.286 Std 0.281 Reads 0.000 Zero Reads

Barometric Pressure (mm Hg) 29.56"Hg, 743.5mm Hg

Dissolved Oxygen	before cal	after cal
% Saturation	87.3%	99.9%
mg/L D.O.	7.13 mg/L	8.25 mg/L
Temp – °C	23.77°C	23.75°C

YSI calibration (See field notes for ____ for calibration info.)

% Saturation	X
mg/L D.O.	
Temp – °C	

Notes:

Setup for D.O. calibration w/ tap water, then download file named HFB08806.txt and calibrate D.O. and read other parameters.

Circulator is not working – clean

Low D.O. value = 4.55 mg/L @ 52.7°C @ 20.94°C on 7/30/04 @ 18:00, pH values 6.15 to 7.22

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Field Notes for Datasonde Deployment

Date/Time: August 16, 2004 9:30 Analyst: MLM

Location: High Falls Bridge Datasonde Serial #: 36467

Calibration Information Datasonde Battery [volts]: 6.0

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	7.06	7.01
10.00 Std	10.02	10.03

at 22°c

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.286 Std	0.294	0.286	Before .0000 After .0000

Barometric Pressure (mm Hg) 742.5

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	100.4	100.9
mg/L D.O.	8.56	8.65
Temp – °C	21.31	21.28

YSI calibration (See field notes for YSI Model 95 calibration information)

	Before Calibration	After Calibration
% Saturation	94.7	97.0
mg/L D.O.	8.13	8.35
Temp – °C	22.9	22.9

Elev. = 814'

Test Program Readings

	Datasonde	YSI Meter (Must be within 0.5 mg/L D.O.)	End #'s
% Saturation	91.9 %	95.5 %	73.9 %
mg/L D.O.	8.20	8.64	6.61
Temp – °C	19.77	19.9	19.71

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.				
Temp – °C				

YSI Reading at Tube

Time	9:59
% Saturation	95.5 %
mg/L D.O.	8.68
Temp – °C	19.9

Check Status

Battery Life @ Start: 93 %

Battery Life @ End: 71 %

Notes: HFBT816.txt (Test Program) = OK

Circulator = ok

Weather = Mostly Sunny + 70°. Beautiful!

End Date: 080604 - 150000

1 - Gate Open - #4 of 6

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Field Notes for Datasonde Post Calibration

Date/Time: August 16, 2004 - 10:25 Analyst: MLM

Location: High Falls Bridge Datasonde Serial #: 36465

Ending Datasonde Battery [volts]: 5.9

Calibration Information

pH (s.u.)	Reads
7.00 Std	7.12
10.00 Std	10.17

Conductivity (mS/cm) 0.286 Std 0.334 Reads .0000 Zero Reads

Barometric Pressure (mm Hg) 742

Dissolved Oxygen	before cal	after cal
% Saturation	85.7	99.8
mg/L D.O.	7.52	8.74
Temp – °C	20.60	20.61

YSI calibration (See field notes for _____ for calibration info.)

% Saturation	
mg/L D.O.	
Temp – °C	

Notes:

HFB816.txt: ok

Weather: Mostly Sunny +70° - No Wind - Beautiful

Circulator: ok

PH range (6-9): 9.03 - 8/9/04. 190000

9.40 - 8/9 - 230000 (bot up unit) 9.01 - 8/9/04 - 170000 - more 9's on 8/10 from 140000 - 180000 + on 8/13 from 230000 - 010000 on 8/14.

Low DO (<5): 4.97 on 8/8 at 180000

8/7 - 150000 - 5.93 until

8/9 - 030000 - 5.19

All 5's with a low of 4.97 (others close)

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Field Notes for Datasonde Deployment

Date/Time: Aug. 23, 2004 10:10 Analyst: TR

Location: High Falls Bridge Datasonde Serial #: 364464

Calibration Information Datasonde Battery [volts]: 6.04

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	8.36	7.00
10.00 Std	10.07	10.00

Cleaned ph probe with 50% methanol. pH reference solution changed on 8/10/04

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.286 Std	0.295	0.286	Before 0.000 After 0.000

Barometric Pressure (mm Hg) 29.10"Hg, 740mm Hg

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	100.6%	100.0%
mg/L D.O.	8.92 mg/L	8.87 mg/L
Temp – °C	19.86°C	19.86°C

YSI calibration (See field notes for YSI Model 55 calibration information)

	Before Calibration	After Calibration
% Saturation	98.2%	97.1%
mg/L D.O.	8.77 mg/L	8.70 mg/L
Temp – °C	20.06°C	20.06°C

Cal. elev. @ 8

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	93.1%	92.5%	
mg/L D.O.	8.33 mg/L	8.46 mg/L	Test ran off fishing Bridge
Temp – °C	19.44°C	19.5°C	ph range 7.85 to 7.88

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.				
Temp – °C				

Deploy

YSI Reading at Tube

Time	11:00
% Saturation	90.5%
mg/L D.O.	8.27 mg/L
Temp – °C	19.7°C

Check Status

Battery Life @ Start: 93% >ok

Battery Life @ End: 52%

Notes: Partly Cloudy, moderate winds, 60°F

Test file named HFBT0823.txt

Circulator works, but slowly

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Field Notes for Datasonde Post Calibration

Date/Time: Aug. 23, 2004 10:30 Analyst: FR

Location: High Falls Bridge Datasonde Serial #: 36467

Ending Datasonde Battery [volts]: 5.9V

Calibration Information

pH (s.u.)	Reads
7.00 Std	7.43
10.00 Std	10.47

Conductivity (mS/cm) 0.286 Std 0.263 Reads 0.000 Zero Reads

Barometric Pressure (mm Hg) 740 mm Hg, 29.10" Hg

Dissolved Oxygen	before cal	after cal
% Saturation	80.1%	100.0%
mg/L D.O.	7.35 mg/L	9.13 mg/L
Temp – °C	18.49°C	18.46°C

YSI calibration (See field notes for ____ for calibration info.)

% Saturation	X	Circulator works well.
mg/L D.O.		
Temp – °C		

Notes:

Setup for D.O. Calibration w/ tap water. Download File named HFB0823.txt, then Calibrate D.O and read other parameters. Un-Scheduled Trip, pH reading above 9 over weekend.

Low D.O. value → 5.99 mg/L @ 66.2% @ 19.10°C, on 8/20/04 @ 03:00.

pH values 9.94 on 8/20/04 @ 00:00, 8.06 @ 23:00 on 8/19/04 and 7.99 @ 01:00 on 8/20/04. 9.01 on 8/16/04 @ 14:00, 8.19 on 8/16/04 @ 13:00 and 8.21 on 8/16/04 @ 15:00. Besides two over 9, rest are in 7.9 to 8.4 range

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Field Notes for Datasonde Deployment

Date/Time: Aug. 24, 2004 Analyst: HP

Location: High Falls Bridge - Un-scheduled Datasonde Serial #: 37680

Calibration Information Datasonde Battery [volts]: 11.5

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	6.69	7.00
10.00 Std	9.97	10.00

Conductivity (mS/cm)		Before Cal.	After Cal.	Zero Conductivity Calibration
0.286	Std	0.287	0.286	Before 0.000 After 0.000

Barometric Pressure (mm Hg) 29.00" Hg, 738mm Hg

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	114.6%	100.9%
mg/L D.O.	9.46 mg/L	8.23 mg/L
Temp – °C	23.60°C	23.60°C

YSI calibration (See field notes for YSI Model 55 calibration information)

	Before Calibration	After Calibration
% Saturation	95.3%	97.1%
mg/L D.O.	7.99 mg/L	8.12 mg/L
Temp – °C	24.3°C	24.3°C

Cal elev. @ 8

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	95.9%	94.3%	ran off fishing bridge
mg/L D.O.	8.43 mg/L	8.53 mg/L	ph datasonde
Temp – °C	20.18°C	20.2°C	8.21 - 8.29

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.	Deploy			
Temp – °C				

YSI Reading at Tube

Time	12:50
% Saturation	90.7
mg/L D.O.	8.24 mg/L
Temp – °C	20.0°C

Check Status

Battery Life @ Start: 89%

Battery Life @ End: 83%

9/3/04 17:00

Notes: Mostly cloudy, 70°F, little wind

Test file named HFBT0824.txt

Circulator works well.

TTY Data transfer not working. Bundle strap to tube to compare to Minita

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Field Notes for Datasonde Post Calibration

Date/Time: Aug. 24, 2004 Analyst: HR

Location: High Falls Bridge (pH over 9) Datasonde Serial #: 36464

Ending Datasonde Battery [volts]: 5.8 V

Calibration Information

pH (s.u.)	Reads
7.00 Std	9.15
10.00 Std	12.12 (11.79)

> send Datasonde to Hydrolab for evaluation of pH Drift

Conductivity (mS/cm) 0.286 Std _____ Reads _____ Zero Reads

Barometric Pressure (mm Hg) 29.00"Hg, 738 mm Hg

Dissolved Oxygen	before cal	after cal
% Saturation	95.2%	100.0%
mg/L D.O.	7.92 mg/L	8.27 mg/L
Temp – °C	23.29°C	23.32°C

YSI calibration (See field notes for — for calibration info.)

% Saturation	
mg/L D.O.	
Temp – °C	

Notes:

Setup for D.O. Calibration w/ tap water, Download file named HFB0824.txt, Calibrate D.O. and read other parameters.

Loco D.O. => 7.41 @ 82.8% @ 19.43°C on 8/23/04 @ 23:00

pH started @ 8.03 and steadily climbs to 9.85 (last reading).

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Field Notes for Datasonde Deployment

Date/Time: Sept. 3, 2004 11:50 Analyst: TP

Location: High Falls Bridge - Datasonde 4 Datasonde Serial #: 37681

Calibration Information Datasonde Battery [volts]: 12.2V

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	7.38	7.00
10.00 Std	10.04	10.00

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.288 Std	0.286	0.288	Before 0.000 After 0.000

Barometric Pressure (mm Hg) 29.15" Hg, 741 mm Hg

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	81.5%	100.0%
mg/L D.O.	6.56 mg/L	8.13 mg/L
Temp – °C	24.47°C	24.47°C

Bubble under membrane, replace membrane to remove bubble

YSI calibration (See field notes for YSI Model 55 calibration information)

	Before Calibration	After Calibration
% Saturation	93.2%	97.1%
mg/L D.O.	7.90 mg/L	8.21 mg/L
Temp – °C	23.7°C	23.7°C

New memb. on 9/2/04 Cal. elev. @ 8

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	95.1%	91.6%	
mg/L D.O.	8.37 mg/L	8.23 mg/L	
Temp – °C	20.3°C	20.4°C	

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation	Deploy			
mg/L D.O.				
Temp – °C				

YSI Reading at Tube

Time	12:45
% Saturation	92.3%
mg/L D.O.	8.33 mg/L
Temp – °C	20.4°C

Check Status

Battery Life @ Start: 100%

Battery Life @ End: 94%

Notes: partly cloudy, little wind, 75°F
Test file named HFBTB904.txt
Setup to compare D.O. and pH values to the mini 4a. Bungie strap to outside tube at same depth as mini 4a
Circulator works good.

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Field Notes for Datasonde Post Calibration

Date/Time: Sept. 3, 2004 Analyst: JR

Location: High Falls Bridge Datasonde Serial #: 37680

Ending Datasonde Battery [volts]: 11.24

Calibration Information

Big 4 to confirm pH and D.O. readings from Mini 4a.

pH (s.u.)	Reads
7.00 Std	7.57
10.00 Std	10.58

Conductivity (mS/cm) 0.288 Std 0.289 Reads 0.000 Zero Reads

Barometric Pressure (mm Hg) 29.15"Hg, 741 mmHg

Dissolved Oxygen	before cal	after cal
% Saturation	92.3%	99.8%
mg/L D.O.	7.64 mg/L	8.19 mg/L
Temp – °C	23.96 °C	23.97 °C

YSI calibration (See field notes for — for calibration info.)

% Saturation	X
mg/L D.O.	
Temp – °C	

Datasonde strapped to outside of tube at same depth as mini 4a. Compare pH and D.O. readings to mini 4a.

Notes:

Setup for D.O. calibration w/ Eap water then download file named HFBB0903.txt and read other parameters.

low D.O. reading - 6.30 mg/L @ 70.4% @ 19.34 °C on 8/30/04 @ 06:00

ph range - 7.95 to 8.82

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Field Notes for Datasonde Deployment

Date/Time: Sept. 10, 2004 10:00 Analyst: MLM

Location: High Falls Bridge (Big - Outside) Datasonde Serial #: 37680

Calibration Information Datasonde Battery [volts]: 11.4

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	7.46	7.01
10.00 Std	10.09	10.04

at 21° C

Conductivity (mS/cm)	Before Cal.	After Cal.	Zero Conductivity Calibration
0.289 Std	0.295	0.289	Before .0000 After .0000

Barometric Pressure (mm Hg) 743

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	115.0	100.0
mg/L D.O.	10.01	8.73
Temp – °C	20.89	20.88

YSI calibration (See field notes for YSI Model 95 calibration information)

	Before Calibration	After Calibration
% Saturation	100.5	97.0
mg/L D.O.	9.14	8.82
Temp – °C	19.9	20.0

Elev. - 814'

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)	End #
% Saturation	87.9	90.1		75.1
mg/L D.O.	7.83	8.41	- OK	6.68
Temp – °C	19.88	19.4		19.75

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.				
Temp – °C				

YSI Reading at Tube

Time	9:20
% Saturation	79.8
mg/L D.O.	7.34
Temp – °C	18.7

Check Status

Battery Life @ Start: 87 %

Battery Life @ End: 84 %

Notes: HFBT0910.txt : 18:9 OK

Circulator: OK

End Date : 092004 . 170000

Sunny + Beautiful - 70° - V. light wind, No humidity!

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Field Notes for Datasonde Post Calibration

Date/Time: Sept. 10, 2004 10:40 Analyst: MLM

Location: High Falls Bridge (Big - Outside) Datasonde Serial #: 37681

Ending Datasonde Battery [volts]: 11.9

Calibration Information

pH (s.u.)	Reads
7.00 Std	7.12
10.00 Std	10.19

Conductivity (mS/cm) 0.289 Std 0.317 Reads

Barometric Pressure (mm Hg) 743

Dissolved Oxygen	before cal	after cal
% Saturation	91.1	100.1
mg/L D.O.	8.17	8.99
Temp – °C	19.45	19.44

YSI calibration (See field notes for _____ for calibration info.)

% Saturation	
mg/L D.O.	
Temp – °C	

Notes:

Download as HFBB[redacted]910.txt : ok

Big

Circulator: ok

D.O [redacted] : 9/6 - 01000 + 01000 = 5.26 + 5.20

pH [redacted] : ok

Some fouling. More than on the mini.

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Field Notes for Datasonde Deployment

Date/Time: Sept. 20, 2004 - 10:50 Analyst: MLM

Location: High Falls Bridge - (Big - Outside) Datasonde Serial #: 37681

Calibration Information Datasonde Battery [volts]: 11.9

pH (s.u.)	Before Cal.	After Cal.
7.00 Std	7.21	7.02
10.00 Std	10.08	10.05

at 20°C

Conductivity (mS/cm) Before Cal. After Cal. Zero Conductivity Calibration

0.291 Std 0.300 0.291 Before .0000 After .0000

Barometric Pressure (mm Hg) 744

Dissolved Oxygen	Before Calibration	After Calibration
% Saturation	137.8	100.6
mg/L D.O.	12.10	8.79
Temp – °C	20.57	20.57

YSI calibration (See field notes for YSI Model 95 calibration information)

	Before Calibration	After Calibration
% Saturation	97.0	97.0
mg/L D.O.	8.62	8.63
Temp – °C	21.2	21.2

Elev. = 814'

Test Program Readings

	Datasonde	YSI Meter	(Must be within 0.5 mg/L D.O.)
% Saturation	90.7	89.9	- ok
mg/L D.O.	8.64	8.21	
Temp – °C	19.98	20.0	

End #'s
77.1
6.91
19.56

Re-calibration required if outside 0.5 mg/l limit

	Before Cal.	After Cal.	Datasonde	YSI
% Saturation				
mg/L D.O.				
Temp – °C				

YSI Reading at Tube

Time	10:05
% Saturation	88.9
mg/L D.O.	8.15
Temp – °C	19.6

Check Status

Battery Life @ Start: 98%

Battery Life @ End: 94%

Notes: NFBTB920.txt: ok

circulator: [illegible] ok

End Date: 100104 · 010000

Post cal

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Field Notes for Datasonde Post Calibration

Date/Time: Sept. 20, 2004 - 11:45 Analyst: MLM

Location: High Falls Bridge (Big - Outside Tube) Datasonde Serial #: 37680

Ending Datasonde Battery [volts]: 11.3

Calibration Information

pH (s.u.)	Reads
7.00 Std	7.32
10.00 Std	10.37

Zero Reads .0000

Conductivity (mS/cm) 0.291 Std 0.287 Reads

Barometric Pressure (mm Hg) 744

Dissolved Oxygen	before cal	after cal
% Saturation	86.4	100.2
mg/L D.O.	7.64	8.86
Temp – °C	20.26	20.29

YSI calibration (See field notes for _____ for calibration info.)

% Saturation	
mg/L D.O.	
Temp – °C	

Notes:

Download as HFBB920.txt:

circulator: did not work - little push t ok

PH - (range 6.9): All ok 9/17/04 - 110000 + 130000 = 8.30 + 8.28

DO - (<5): ok

Fouling: Some

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Field Notes for Datasonde Post Calibration

Date/Time: 10/1/04 8:55 Analyst: MLR

Location: High Falls Bridge (Big - Outside Tube) Datasonde Serial #: 37681

Ending Datasonde Battery [volts]: 11.6

Calibration Information

pH (s.u.)	Reads
7.00 Std	7.26
10.00 Std	10.29

Conductivity (mS/cm) 0.286 Std 0.309 Reads

Zero Reads .0000

Barometric Pressure (mm Hg) 735

Dissolved Oxygen	before cal	after cal
% Saturation	89.2	99.9
mg/L D.O.	8.02	8.88
Temp – °C	19.47	19.42

YSI calibration (See field notes for _____ for calibration info.)

% Saturation	
mg/L D.O.	
Temp – °C	

Notes:

HFBB1001.txt = ok

DO (<5): ok

PH (6-9): ok (No jump, like the mini)

Circulator:

Some Fouling on DO Probe

Overcast & cool. 58° - No Wind

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Appendix C

Documentation of Agency Consultation

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Wisconsin Public Service Corporation
(a subsidiary of WPS Resources Corporation)
700 North Adams Street
P.O. Box 19002
Green Bay, WI 54307-9002

October 18, 2004

FERC Project No. 2595

Mr. Larry Thompson
U.S. Fish and Wildlife Service
2661 Scott Tower Drive
New Franken, WI 54229

Dear Mr. Thompson:

High Falls Hydroelectric Project - Water Quality Monitoring Data

Wisconsin Public Service Corporation (WPSC) is pleased to submit water quality monitoring data for the 2004 monitoring year for your review and comment.

Per the Order Amending Water Quality Monitoring Plan for the High Falls Hydroelectric Facility, dated April 30, 2002, dissolved oxygen (D.O.), temperature, and pH was monitored hourly from June 1st to September 30th, 2004, below the dam. The data collected is enclosed for your review. The D.O. data has been corrected for a loss of calibration when the uncorrected data would show a non-compliant condition. Please note that there are two-hourly readings below the dissolved oxygen standard of 5.0 mg/l. In both instances, there was a sudden drop in the D.O. level from the previous hourly reading, and an immediate increase in D.O. for the following reading. Water was being spilled through the taintor gates for D.O. supplementation during the events. These readings are transient anomalies, possibly due to debris or fouling of the D.O. membrane.

Several pH readings were observed above the 9.0 s.u. water quality standard. The deviations are due to monitoring equipment. WPSC has been able to trace the readings back to specific monitoring equipment units used when the deviations occurred. WPSC had similar problems last monitoring season and is continuing to work with the manufacturer to resolve the issue. There are no deviations from temperature or dissolved oxygen standards to note. Copies of pre- and post-deployment calibration data are also attached. For consultation purposes, this information is also being provided to Mr. Mike Donofrio of the Wisconsin Department of Natural Resources (WDNR).

Please review the enclosed data and make any comments you may have as soon as possible, but within 30 days of this letter. Should you have any questions or concerns, please do not hesitate to call me at (920) 433-1833. Thank you for your time and consideration.

Sincerely,

Mark Metcalf

Mark W. Metcalf
Environmental Consultant
Telephone: (920) 433-1833

Enc.

cc: Mr. Shawn Puzen, WPSC - D2
Ms. Joan Johanek, WPSC – D2

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The United States Fish and Wildlife Service (FWS) did not respond with comments.

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Wisconsin Public Service Corporation
(a subsidiary of WPS Resources Corporation)
700 North Adams Street
P.O Box 19002
Green Bay, WI 54307-9002

October 18, 2004

FERC Project No. 2595

Mr. Mike Donofrio
Wisconsin Department of Natural Resources
101 N. Ogden Rd.
Peshtigo, WI 54157

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Sincerely,

Mark Metcalf

Mark W. Metcalf
Environmental Consultant
Telephone: (920) 433-1833

Enc.

cc: Mr. Shawn Puzen, WPSC - D2
Ms. Joan Johanek, WPSC – D2

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The Wisconsin Department of Natural Resources (WDNR) did not respond with comments.