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# //UNITED STATES GEOLOGICAL SURVEY      http://water.usgs.gov/
# //NATIONAL WATER INFORMATION SYSTEM    http://water.usgs.gov/data.html
# //DATA ARE PROVISIONAL AND SUBJECT TO CHANGE UNTIL PUBLISHED BY USGS
# //RETRIEVED: 2015-02-13 11:30:02
# //WARNING
# //WARNING The stage-discharge rating provided in this file should be
# //WARNING considered provisional and subject to change. Stage-discharge
# //WARNING ratings change over time as the channel features that control
# //WARNING the relation between stage and discharge vary. Users are
# //WARNING cautioned to consider carefully the applicability of this
# //WARNING rating before using it for decisions that concern personal or
# //WARNING public safety or operational consequences.
# //WARNING
# //FILE TYPE="NWIS RATING"
# //DATABASE NUMBER=01 DESCRIPTION=" Standard data base for this site."
# //STATION AGENCY="USGS " NUMBER="05051522      " TIME_ZONE="CST" DST_FLAG=Y
# //STATION NAME="RED RIVER OF THE NORTH AT HICKSON, ND"
# //DD NUMBER=" 2" LABEL="Discharge Bubbler (ft3/s)"
# //PARAMETER CODE="00060"
# //RATING SHIFTED="20150213110000 CST"
# //RATING ID="15.0" TYPE="STGQ" NAME="stage-discharge" AGING=A
# //RATING REMARKS=""
# //RATING EXPANSION="logarithmic"
# //RATING OFFSET1=9.00
# //RATING_INDEP ROUNDING="2223456782" PARAMETER="Gage height (ft)"
# //RATING_DEP ROUNDING="2222233332" PARAMETER="Discharge (ft3/s)"
# //RATING_DATETIME BEGIN=20120301000000 BZONE=CST END=20131021235959 EZONE=CDT
AGING=A
# //RATING_DATETIME COMMENT="Redraw of RT 14.0 to the left below stages of 26.0 ft,
based on rip-rap construction and persistent negative trend."
# //RATING_DATETIME BEGIN=20131022000000 BZONE=CDT END=23821230120000 EZONE=CST
AGING=W
# //RATING_DATETIME COMMENT="Redraw of RT 14.0 to the left below stages of 26.0 ft,
based on rip-rap construction and persistent negative trend."
# //SHIFT_PREV BEGIN="20141104083000" BZONE="CST" END="-----" EZONE="----"
# //SHIFT_PREV STAGE1="10.00" SHIFT1="-0.27" STAGE2="12.10" SHIFT2="-0.27"
STAGE3="13.50" SHIFT3="0.00"
# //SHIFT_PREV COMMENT="Cont. shift attributed to developing rating issue on low
end. Close out analysis period. DCT"
# //SHIFT_NEXT BEGIN="-----" BZONE="----" END="-----" EZONE="----"
# //SHIFT_NEXT STAGE1="----" SHIFT1="----" STAGE2="----" SHIFT2="----" STAGE3="----"
SHIFT3="----"
# //SHIFT_NEXT COMMENT=" "

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INDEP	SHIFT	DEP	STOR
16N	16N	16N	1S
9.47	-0.27	35	*
9.48	-0.27	37	
9.49	-0.27	40	
9.50	-0.27	42	
9.51	-0.27	44	
9.52	-0.27	47	
9.53	-0.27	49	
9.54	-0.27	51	
9.55	-0.27	54	
9.56	-0.27	56	
9.57	-0.27	59	

Refer to page 47 and 52

100 year FEMA 14,173 cfs 35.48 ft

500 year FEMA 21,818 cfs 38.43 ft

9.58	-0.27	61
9.59	-0.27	64
9.60	-0.27	66
9.61	-0.27	69
9.62	-0.27	71
9.63	-0.27	74
9.64	-0.27	77
9.65	-0.27	79
9.66	-0.27	82
9.67	-0.27	85
9.68	-0.27	87
9.69	-0.27	90
9.70	-0.27	93
9.71	-0.27	96
9.72	-0.27	98
9.73	-0.27	101
9.74	-0.27	104
9.75	-0.27	107
9.76	-0.27	110
9.77	-0.27	113
9.78	-0.27	116
9.79	-0.27	118
9.80	-0.27	121
9.81	-0.27	124
9.82	-0.27	127
9.83	-0.27	130
9.84	-0.27	133
9.85	-0.27	136
9.86	-0.27	139
9.87	-0.27	142
9.88	-0.27	145
9.89	-0.27	148
9.90	-0.27	151
9.91	-0.27	154
9.92	-0.27	157
9.93	-0.27	160
9.94	-0.27	164
9.95	-0.27	167
9.96	-0.27	170
9.97	-0.27	173
9.98	-0.27	176
9.99	-0.27	179
10.00	-0.27	182
10.01	-0.27	186
10.02	-0.27	189
10.03	-0.27	192
10.04	-0.27	195
10.05	-0.27	199
10.06	-0.27	202
10.07	-0.27	205
10.08	-0.27	208
10.09	-0.27	212
10.10	-0.27	215
10.11	-0.27	218
10.12	-0.27	222
10.13	-0.27	225
10.14	-0.27	228

10.15	-0.27	232
10.16	-0.27	235
10.17	-0.27	238
10.18	-0.27	242
10.19	-0.27	245
10.20	-0.27	249
10.21	-0.27	252
10.22	-0.27	255
10.23	-0.27	259
10.24	-0.27	262
10.25	-0.27	266
10.26	-0.27	269
10.27	-0.27	273
10.28	-0.27	276
10.29	-0.27	280
10.30	-0.27	283
10.31	-0.27	287
10.32	-0.27	290
10.33	-0.27	294
10.34	-0.27	297
10.35	-0.27	301
10.36	-0.27	304
10.37	-0.27	308
10.38	-0.27	311
10.39	-0.27	315
10.40	-0.27	319
10.41	-0.27	322
10.42	-0.27	326
10.43	-0.27	329
10.44	-0.27	333
10.45	-0.27	337
10.46	-0.27	340
10.47	-0.27	344
10.48	-0.27	348
10.49	-0.27	351
10.50	-0.27	355
10.51	-0.27	359
10.52	-0.27	362
10.53	-0.27	366
10.54	-0.27	370
10.55	-0.27	374
10.56	-0.27	377
10.57	-0.27	381
10.58	-0.27	385
10.59	-0.27	388
10.60	-0.27	392
10.61	-0.27	396
10.62	-0.27	400
10.63	-0.27	404
10.64	-0.27	407
10.65	-0.27	411
10.66	-0.27	415
10.67	-0.27	419
10.68	-0.27	423
10.69	-0.27	426
10.70	-0.27	430
10.71	-0.27	434

10.72	-0.27	438
10.73	-0.27	442
10.74	-0.27	446
10.75	-0.27	450
10.76	-0.27	453
10.77	-0.27	457
10.78	-0.27	461
10.79	-0.27	465
10.80	-0.27	469
10.81	-0.27	473
10.82	-0.27	477
10.83	-0.27	481
10.84	-0.27	485
10.85	-0.27	489
10.86	-0.27	493
10.87	-0.27	497
10.88	-0.27	500
10.89	-0.27	504
10.90	-0.27	508
10.91	-0.27	512
10.92	-0.27	516
10.93	-0.27	520
10.94	-0.27	524
10.95	-0.27	528
10.96	-0.27	532
10.97	-0.27	536
10.98	-0.27	540
10.99	-0.27	545
11.00	-0.27	549
11.01	-0.27	553
11.02	-0.27	557
11.03	-0.27	561
11.04	-0.27	565
11.05	-0.27	569
11.06	-0.27	573
11.07	-0.27	577
11.08	-0.27	581
11.09	-0.27	585
11.10	-0.27	589
11.11	-0.27	593
11.12	-0.27	598
11.13	-0.27	602
11.14	-0.27	606
11.15	-0.27	610
11.16	-0.27	614
11.17	-0.27	618
11.18	-0.27	622
11.19	-0.27	627
11.20	-0.27	631
11.21	-0.27	635
11.22	-0.27	639
11.23	-0.27	643
11.24	-0.27	647
11.25	-0.27	652
11.26	-0.27	656
11.27	-0.27	660
11.28	-0.27	664

*

11.29	-0.27	668
11.30	-0.27	673
11.31	-0.27	677
11.32	-0.27	681
11.33	-0.27	685
11.34	-0.27	689
11.35	-0.27	694
11.36	-0.27	698
11.37	-0.27	702
11.38	-0.27	706
11.39	-0.27	711
11.40	-0.27	715
11.41	-0.27	719
11.42	-0.27	724
11.43	-0.27	728
11.44	-0.27	732
11.45	-0.27	736
11.46	-0.27	741
11.47	-0.27	745
11.48	-0.27	749
11.49	-0.27	753
11.50	-0.27	758
11.51	-0.27	762
11.52	-0.27	766
11.53	-0.27	770
11.54	-0.27	775
11.55	-0.27	779
11.56	-0.27	783
11.57	-0.27	787
11.58	-0.27	792
11.59	-0.27	796
11.60	-0.27	800
11.61	-0.27	804
11.62	-0.27	809
11.63	-0.27	813
11.64	-0.27	817
11.65	-0.27	821
11.66	-0.27	826
11.67	-0.27	830
11.68	-0.27	834
11.69	-0.27	839
11.70	-0.27	843
11.71	-0.27	847
11.72	-0.27	852
11.73	-0.27	856
11.74	-0.27	860
11.75	-0.27	865
11.76	-0.27	869
11.77	-0.27	873
11.78	-0.27	878
11.79	-0.27	882
11.80	-0.27	886
11.81	-0.27	891
11.82	-0.27	895
11.83	-0.27	899
11.84	-0.27	904
11.85	-0.27	908

*

*

11.86	-0.27	913	
11.87	-0.27	917	*
11.88	-0.27	921	
11.89	-0.27	926	
11.90	-0.27	930	
11.91	-0.27	935	
11.92	-0.27	939	
11.93	-0.27	943	
11.94	-0.27	948	
11.95	-0.27	952	
11.96	-0.27	957	
11.97	-0.27	961	
11.98	-0.27	965	
11.99	-0.27	970	
12.00	-0.27	974	
12.01	-0.27	979	
12.02	-0.27	983	
12.03	-0.27	987	
12.04	-0.27	992	
12.05	-0.27	996	
12.06	-0.27	1000	
12.07	-0.27	1010	
12.08	-0.27	1010	
12.09	-0.27	1010	
12.10	-0.27	1020	
12.11	-0.27	1020	
12.12	-0.27	1030	
12.13	-0.26	1040	
12.14	-0.26	1040	
12.15	-0.26	1050	
12.16	-0.26	1050	*
12.17	-0.26	1050	
12.18	-0.25	1060	
12.19	-0.25	1070	
12.20	-0.25	1070	
12.21	-0.25	1080	
12.22	-0.25	1080	
12.23	-0.24	1090	
12.24	-0.24	1090	
12.25	-0.24	1100	
12.26	-0.24	1100	
12.27	-0.24	1110	
12.28	-0.24	1110	
12.29	-0.23	1120	
12.30	-0.23	1120	
12.31	-0.23	1130	
12.32	-0.23	1130	
12.33	-0.23	1140	
12.34	-0.22	1150	
12.35	-0.22	1150	
12.36	-0.22	1150	
12.37	-0.22	1160	
12.38	-0.22	1160	
12.39	-0.21	1170	
12.40	-0.21	1180	
12.41	-0.21	1180	*
12.42	-0.21	1180	

12.43	-0.21	1190
12.44	-0.20	1200
12.45	-0.20	1200
12.46	-0.20	1210
12.47	-0.20	1210
12.48	-0.20	1210
12.49	-0.19	1220
12.50	-0.19	1230
12.51	-0.19	1230
12.52	-0.19	1240
12.53	-0.19	1240
12.54	-0.19	1250
12.55	-0.18	1250
12.56	-0.18	1260
12.57	-0.18	1260
12.58	-0.18	1270
12.59	-0.18	1270
12.60	-0.17	1280
12.61	-0.17	1280
12.62	-0.17	1290
12.63	-0.17	1290
12.64	-0.17	1300
12.65	-0.16	1310
12.66	-0.16	1310
12.67	-0.16	1320
12.68	-0.16	1320
12.69	-0.16	1320
12.70	-0.15	1330
12.71	-0.15	1340
12.72	-0.15	1340
12.73	-0.15	1350
12.74	-0.15	1350
12.75	-0.14	1360
12.76	-0.14	1360
12.77	-0.14	1370
12.78	-0.14	1370
12.79	-0.14	1380
12.80	-0.14	1380
12.81	-0.13	1390
12.82	-0.13	1400
12.83	-0.13	1400
12.84	-0.13	1400
12.85	-0.13	1410
12.86	-0.12	1420
12.87	-0.12	1420
12.88	-0.12	1420
12.89	-0.12	1430
12.90	-0.12	1430
12.91	-0.11	1440
12.92	-0.11	1450
12.93	-0.11	1450
12.94	-0.11	1450
12.95	-0.11	1460
12.96	-0.10	1470
12.97	-0.10	1470
12.98	-0.10	1470
12.99	-0.10	1480

*

13.00	-0.10	1480
13.01	-0.09	1490
13.02	-0.09	1500
13.03	-0.09	1500
13.04	-0.09	1500
13.05	-0.09	1510
13.06	-0.08	1520
13.07	-0.08	1520
13.08	-0.08	1520
13.09	-0.08	1530
13.10	-0.08	1530
13.11	-0.08	1540
13.12	-0.07	1550
13.13	-0.07	1550
13.14	-0.07	1550
13.15	-0.07	1560
13.16	-0.07	1560
13.17	-0.06	1570
13.18	-0.06	1570
13.19	-0.06	1580
13.20	-0.06	1580
13.21	-0.06	1590
13.22	-0.05	1600
13.23	-0.05	1600
13.24	-0.05	1600
13.25	-0.05	1610
13.26	-0.05	1610
13.27	-0.04	1620
13.28	-0.04	1620
13.29	-0.04	1630
13.30	-0.04	1630
13.31	-0.04	1640
13.32	-0.03	1650
13.33	-0.03	1650
13.34	-0.03	1650
13.35	-0.03	1660
13.36	-0.03	1660
13.37	-0.03	1670
13.38	-0.02	1670
13.39	-0.02	1680
13.40	-0.02	1680
13.41	-0.02	1690
13.42	-0.02	1690
13.43	-0.01	1700
13.44	-0.01	1700
13.45	-0.01	1710
13.46	-0.01	1710
13.47	-0.01	1720
13.48	0.00	1720
13.49	0.00	1730
13.50	0.00	1730
13.51	0.00	1740
13.52	0.00	1740
13.53	0.00	1750
13.54	0.00	1750
13.55	0.00	1750
13.56	0.00	1760

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13.57	0.00	1760
13.58	0.00	1770
13.59	0.00	1770
13.60	0.00	1770
13.61	0.00	1780
13.62	0.00	1780
13.63	0.00	1790
13.64	0.00	1790
13.65	0.00	1800
13.66	0.00	1800
13.67	0.00	1800
13.68	0.00	1810
13.69	0.00	1810
13.70	0.00	1820
13.71	0.00	1820
13.72	0.00	1820
13.73	0.00	1830
13.74	0.00	1830
13.75	0.00	1840
13.76	0.00	1840
13.77	0.00	1850
13.78	0.00	1850
13.79	0.00	1850
13.80	0.00	1860
13.81	0.00	1860
13.82	0.00	1870
13.83	0.00	1870
13.84	0.00	1870
13.85	0.00	1880
13.86	0.00	1880
13.87	0.00	1890
13.88	0.00	1890
13.89	0.00	1900
13.90	0.00	1900
13.91	0.00	1900
13.92	0.00	1910
13.93	0.00	1910
13.94	0.00	1920
13.95	0.00	1920
13.96	0.00	1920
13.97	0.00	1930
13.98	0.00	1930
13.99	0.00	1940
14.00	0.00	1940
14.01	0.00	1940
14.02	0.00	1950
14.03	0.00	1950
14.04	0.00	1960
14.05	0.00	1960
14.06	0.00	1960
14.07	0.00	1970
14.08	0.00	1970
14.09	0.00	1980
14.10	0.00	1980
14.11	0.00	1980
14.12	0.00	1990
14.13	0.00	1990

*

14.14	0.00	2000
14.15	0.00	2000
14.16	0.00	2000
14.17	0.00	2010
14.18	0.00	2010
14.19	0.00	2020
14.20	0.00	2020
14.21	0.00	2020
14.22	0.00	2030
14.23	0.00	2030
14.24	0.00	2040
14.25	0.00	2040
14.26	0.00	2040
14.27	0.00	2050
14.28	0.00	2050
14.29	0.00	2060
14.30	0.00	2060
14.31	0.00	2060
14.32	0.00	2070
14.33	0.00	2070
14.34	0.00	2080
14.35	0.00	2080
14.36	0.00	2080
14.37	0.00	2090
14.38	0.00	2090
14.39	0.00	2100
14.40	0.00	2100
14.41	0.00	2100
14.42	0.00	2110
14.43	0.00	2110
14.44	0.00	2120
14.45	0.00	2120
14.46	0.00	2120
14.47	0.00	2130
14.48	0.00	2130
14.49	0.00	2140
14.50	0.00	2140
14.51	0.00	2140
14.52	0.00	2150
14.53	0.00	2150
14.54	0.00	2160
14.55	0.00	2160
14.56	0.00	2160
14.57	0.00	2170
14.58	0.00	2170
14.59	0.00	2170
14.60	0.00	2180
14.61	0.00	2180
14.62	0.00	2190
14.63	0.00	2190
14.64	0.00	2190
14.65	0.00	2200
14.66	0.00	2200
14.67	0.00	2200
14.68	0.00	2210
14.69	0.00	2210
14.70	0.00	2220

*

14.71	0.00	2220	
14.72	0.00	2220	
14.73	0.00	2230	
14.74	0.00	2230	
14.75	0.00	2240	
14.76	0.00	2240	
14.77	0.00	2240	
14.78	0.00	2250	
14.79	0.00	2250	
14.80	0.00	2250	
14.81	0.00	2260	
14.82	0.00	2260	
14.83	0.00	2270	
14.84	0.00	2270	
14.85	0.00	2270	
14.86	0.00	2280	
14.87	0.00	2280	
14.88	0.00	2280	
14.89	0.00	2290	
14.90	0.00	2290	
14.91	0.00	2300	
14.92	0.00	2300	
14.93	0.00	2300	
14.94	0.00	2310	
14.95	0.00	2310	
14.96	0.00	2310	
14.97	0.00	2320	
14.98	0.00	2320	
14.99	0.00	2330	
15.00	0.00	2330	*
15.01	0.00	2330	
15.02	0.00	2340	
15.03	0.00	2340	
15.04	0.00	2340	
15.05	0.00	2350	
15.06	0.00	2350	
15.07	0.00	2350	
15.08	0.00	2360	
15.09	0.00	2360	
15.10	0.00	2370	
15.11	0.00	2370	
15.12	0.00	2370	
15.13	0.00	2380	
15.14	0.00	2380	
15.15	0.00	2380	
15.16	0.00	2390	
15.17	0.00	2390	
15.18	0.00	2390	
15.19	0.00	2400	
15.20	0.00	2400	
15.21	0.00	2400	
15.22	0.00	2410	
15.23	0.00	2410	
15.24	0.00	2420	
15.25	0.00	2420	
15.26	0.00	2420	
15.27	0.00	2430	

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28.89	0.00	7360
28.90	0.00	7360
28.91	0.00	7370
28.92	0.00	7370
28.93	0.00	7380
28.94	0.00	7380
28.95	0.00	7390

28.96	0.00	7390	
28.97	0.00	7400	
28.98	0.00	7400	
28.99	0.00	7410	
29.00	0.00	7410	*
29.01	0.00	7420	
29.02	0.00	7420	
29.03	0.00	7430	
29.04	0.00	7430	
29.05	0.00	7440	
29.06	0.00	7440	
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29.09	0.00	7460	
29.10	0.00	7460	
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29.12	0.00	7470	
29.13	0.00	7480	
29.14	0.00	7480	
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29.50	0.00	7670	
29.51	0.00	7680	
29.52	0.00	7680	

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29.54	0.00	7690
29.55	0.00	7700
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29.63	0.00	7740
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29.65	0.00	7750
29.66	0.00	7760
29.67	0.00	7760
29.68	0.00	7770
29.69	0.00	7770
29.70	0.00	7780
29.71	0.00	7790
29.72	0.00	7790
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29.74	0.00	7800
29.75	0.00	7810
29.76	0.00	7810
29.77	0.00	7820
29.78	0.00	7820
29.79	0.00	7830
29.80	0.00	7830
29.81	0.00	7840
29.82	0.00	7840
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29.87	0.00	7870
29.88	0.00	7880
29.89	0.00	7880
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30.01	0.00	7950
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30.04	0.00	7960
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30.06	0.00	7970
30.07	0.00	7980
30.08	0.00	7980
30.09	0.00	7990

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30.10	0.00	8000
30.11	0.00	8000
30.12	0.00	8010
30.13	0.00	8010
30.14	0.00	8020
30.15	0.00	8020
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30.25	0.00	8080
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30.29	0.00	8100
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30.31	0.00	8110
30.32	0.00	8120
30.33	0.00	8120
30.34	0.00	8130
30.35	0.00	8130
30.36	0.00	8140
30.37	0.00	8150
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30.39	0.00	8160
30.40	0.00	8160
30.41	0.00	8170
30.42	0.00	8170
30.43	0.00	8180
30.44	0.00	8180
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30.61	0.00	8280
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30.63	0.00	8290
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30.65	0.00	8300
30.66	0.00	8310

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30.99	0.00	8490
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31.23	0.00	8660

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31.24	0.00	8670
31.25	0.00	8670
31.26	0.00	8680
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31.97	0.00	9180	
31.98	0.00	9190	
31.99	0.00	9190	
32.00	0.00	9200	*
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32.08	0.00	9260	
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32.36	0.00	9480	
32.37	0.00	9490	

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32.93	0.00	9940
32.94	0.00	9950

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32.96	0.00	9970	
32.97	0.00	9980	
32.98	0.00	9980	
32.99	0.00	9990	
33.00	0.00	10000	*
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33.02	0.00	10000	
33.03	0.00	10000	
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