



YUHUAN SUNPRO POWER CO., LTD

Add: Qinggang Technological Ind. Zone, Yuhuan, Zhejiang, China

Tel: +86-576-80730906

Fax: +86-576-87169163

Limited Warranty for PV Modules

1. Limited Product Warranty - Twelve Years Repair, Replacement or Refund

Remedy

Sunpro Power warrants its Photovoltaic Solar Modules to be free from defect in materials and workmanship under normal application, installation, use and service conditions. If MODULES fail to conform to this warranty, then for a period ending 144 months from date of sale as shown in the invoice to the direct customer of Sunpro Power either repair or replace the product, or refund the purchase price as paid by the CUSTOMER. The repair or replacement or refund remedy shall be the sole and exclusive remedy provided under the "Limited Product Warranty" and shall not extend beyond the 144 months period set forth herein. It will be performed directly to the CUSTOMER only. This "Limited Product Warranty" does not warrant a specific power output, which shall be exclusively covered under clause 2 hereinafter ("Limited Peak Power Warranty").

2. Limited Peak Power Warranty - Limited Remedy

12-Year

If, within a period of Twelve (12) years from the date shown in the invoice to the CUSTOMER any MODULE(s) exhibits a power output less than 91.9 % of the minimum peak power In Contract as specified at the date of invoice in Sunpro Power's Product Information Sheet, provided that such loss in power is determined by the manufacture (at its sole and absolute discretion) to be due to defects in material or workmanship, Sunpro Power will replace such loss in power by either providing additional MODULES to the CUSTOMER to make up for such loss in power, or by replacing the defective MODULE(s) at the option of Sunpro Power.

(Degradation rate: 2% 1st year , 0.5% annually)

25-Year

If, within a period of twenty-five (25) years from the date shown in the invoice to the CUSTOMER any MODULE(s) exhibits a power output less than 84.8 % of the minimum Peak Power In Contract as specified at the date of invoice in Sunpro Power's Product Information Sheet, provided that such loss in power is determined by the manufacturer (at its sole and absolute discretion) to be due to defects in material or workmanship, Sunpro Power will replace such loss in power



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by either providing additional MODULES to the CUSTOMER to make up for such loss in power, or by replacing the defective MODULE(s) at the option of Sunpro Power.

Notice:

Peak Power" is the power in watt peak that a PV module generates in its maximum power point:

- (a) Light spectrum of AM 1.5,
- (b) An irradiation of 1,000W per m²
- (c) A cell temperature of 25 degree Celsius

The measurements are carried out as tested at the junction box terminals per the calibration and testing standards of manufacturer valid at the date of manufacture of the PV modules. The manufacturer calibration standards shall be in compliance with the standards applied by international institutions accredited for this purpose.

3. Exclusions and Limitations

(1) In any event, all warranty claims must be filed within the applicable warranty period.

(2) The "Limited Product Warranties" and the "Limited Peak Power Warranties" do not apply to any MODULES which have been subjected to:

- A) Misuse, abuse, neglect or accident;
- B) Alternation, improper installation or application;
- C) Non-observance of manufacturer's installation and maintenance instructions;
- D) Repair or modifications by someone other than an approved service technician of the manufacturer
- E) Power failure surges, lightning, flood, fire, accidental breakage or other events outside manufacturer's control.

(3) Both, the "Limited Product Warranties" and "Limited Peak Power Warranties" do not cover any transportation charge, customs clearance or any other costs for return of the MODULES, or for reshipment of any repaired or replaced MODULES, or costs associated with installation, removal or reinstallation of the PV modules.

(4) Warranty claim will not be honored if the type or serial number of the MODULES have been altered, removed or made illegible.



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(5) This "Limited Warranty for PV Modules" does not apply for MODULES marked as "Grade B". Sunpro Power explicitly refers to their "Limited Warranty for PV Modules marked Grade A", their "Special Limited Warranty for PV Modules marked Grade B" reflecting these categorized modules.

4. Limitation of Warranty Scope

These "Limited Warranties for PV Modules" as set forth herein are expressly in lieu of and exclude all other express or implied warranties, including but not limited to warranties of merchantability and of fitness for particular purpose, use, or application, and all other obligations or liabilities on the part of Sunpro Power, unless such other obligations or liabilities are expressly agreed to in writing signed and approved by Sunpro Power. Sunpro Power shall have no responsibility or liability whatsoever for damage or injury to persons or property, or for other loss or injury resulting from any cause whatsoever arising out of or related to the MODULES, including, without limitation, any defects in the MODULE, or from use or installation. Under no circumstances shall Sunpro Power be liable for incidental, consequential or special damages, howsoever caused. Loss of use, Loss of profits, loss of production, loss of revenues are therefore specifically but without limitation excluded.

Sunpro Power's aggregate liability, if any, in damages or otherwise, shall not exceed the invoice value as paid by the CUSTOMER, for the single unit of MODULE.

5. Obtaining Warranty Performance

If the CUSTOMER feels a justified claim covered by this "Limited Warranties for PV Modules", an immediate notification directly to Sunpro Power shall be filed by mailing a letter in writing to the address of Sunpro Power listed hereunder, or sending an email letter to the email account of Sunpro Power listed hereunder. Together with the notification, the CUSTOMER should enclose the evidence of the claim with the corresponding serial number of the MODULES and the invoice on which the MODULES have been purchased.

The return of any PV modules will not be accepted unless prior written authorization has been given by Sunpro Power.



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6. Severability

If a part, provision or clause of this "Limited Warranty for PV Modules", or the application therefore to any person or circumstance, is held invalid, void or unenforceable, such holding shall not affect and shall leave all other parts, provisions, clauses or applications of this "Limited Warranty for PV Modules", and to this end such other parts, provisions, clauses or applications of this "Limited Warranty for PV Modules" shall be treated as severable.

7. Disputes

In case of any discrepancy in a warranty-claim, a first-class international test-institute such as Fraunhofer ISE in Freiburg / Germany, TÜV SUD in Cologne / Germany or ASU Arizona State University shall be involved to judge the claim finally. All fees and expenses shall be born by the losing party, unless otherwise awarded. The final explanation right shall be borne by Sunpro Power.

8. Various

The repair or replacement of the MODULES or the supply of additional MODULES does not cause beginning of new warranty terms, nor shall the original terms of this "Limited Warranty for PV Modules" be extended. Any replaced MODULES shall become the property of Sunpro Power made for their disposal. Sunpro Power has the right to deliver another type (different in size, color, shape and/or power) in case Sunpro Power discontinued producing the replaced MODULES at the time of the claim.

9. Force Majeure

Sunpro Power shall not be responsible or liable in any way to distributors rather than ultimate customers arising from any non-performance or delay in performance of any terms and conditions of sale, including this "Limited Warranty for PV Modules", due to acts God, war, riots, strikes, unavailability of suitable and sufficient labor, material, or capacity or technical or yield failures and any unforeseen event beyond its control, including, without limitations, any technological or physical event or condition which is not reasonably known or understood at the time of the sale of the MODULES or the claim.



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10. Validity

The model types of Sunpro power standard PV MODULES under this warranty as below:

Mono-Crystalline Solar panel range (1500V)

SPxxx-120MG (xxx=315-345Watt, in step of 5Watt)

SPxxx-144MG (xxx=380-415Watt, in step of 5Watt)

SPxxx-120M (xxx=340-385Watt, in step of 5Watt)

SPxxx-144M (xxx=410-460Watt, in step of 5Watt)

SPxxx-108M10 (xxx=390-415Watt, in step of 5Watt)

SPxxx-120M10 (xxx=435-460Watt, in step of 5Watt)

SPxxx-132M10 (xxx=480-505Watt, in step of 5Watt)

SPxxx-144M10 (xxx=520-550Watt, in step of 5Watt)

SPxxx-120M12 (xxx=580-605Watt, in step of 5Watt)

SPxxx-1 10M12 (xxx=530-555Watt, in step of 5Watt)

Global Service Center:

Yuhuan Sunpro Power Co., Ltd.

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Email: info@sunpropower.com

Web: www.sunpropower.com



王梅君



No.	Series.No.	Voc (V)	Isc (A)	Output Power(W)	Vmax (V)	Imax (A)	FF (%)
SP112301080501							
1	5112301081442455	49.25	14.22	554.39	41.93	13.22	79.18
2	5112301081442556	49.20	14.17	552.32	41.89	13.19	79.24
3	5112301081442309	49.10	14.19	552.32	41.74	13.23	79.28
4	5112301081440813	49.50	14.33	554.51	41.64	13.32	78.19
5	5112301081442275	49.07	14.21	551.20	41.54	13.27	79.08
6	5112301081442483	49.97	13.90	550.89	41.77	13.19	79.31
7	5112301081442375	49.21	14.20	553.03	41.83	13.22	79.13
8	5112301081442475	49.15	14.20	551.18	41.77	13.20	78.98
9	5112301081442274	49.15	14.20	551.16	41.72	13.21	78.98
10	5112301081442531	49.22	14.21	551.57	41.69	13.23	78.88
11	5112301081442460	49.18	14.21	550.87	41.73	13.20	78.84
12	5112301081442491	49.72	14.17	554.79	41.60	13.34	78.75
13	5112301081442529	49.82	14.22	553.75	41.69	13.28	78.19
14	5112301081442367	49.25	14.21	553.02	41.94	13.19	79.02
15	5112301081442125	49.26	14.21	553.53	41.86	13.22	79.07
16	5112301081442434	49.32	14.22	554.21	41.85	13.24	79.05
17	5112301081442108	49.64	14.19	554.00	41.51	13.35	78.64
18	5112301081442384	49.22	14.19	550.28	41.66	13.21	78.81
19	5112301081442167	49.54	14.21	554.02	41.45	13.37	78.68
20	5112301081442554	49.66	14.18	553.62	41.51	13.34	78.62
21	5112301081442454	49.61	14.19	552.19	41.44	13.33	78.43
22	5112301081442436	49.33	14.21	550.08	41.27	13.33	78.46
23	5112301081442378	49.64	14.15	551.13	41.38	13.32	78.43
24	5112301081442473	49.58	14.20	553.59	41.49	13.34	78.61
25	5112301081442310	49.43	14.17	552.64	41.48	13.32	78.90
26	5112301081442427	49.11	14.20	551.44	41.69	13.23	79.09
27	5112301081442448	49.60	14.20	554.09	41.52	13.35	78.68
28	5112301081442451	49.59	14.20	554.15	41.50	13.35	78.70
29	5112301081442548	49.60	14.20	554.29	41.60	13.33	78.67
30	5112301081442456	49.40	14.16	551.70	41.59	13.27	78.87
31	5112301081442449	49.40	14.16	551.42	41.60	13.26	78.83
SP112301080502							
1	5112301081442450	49.44	14.19	550.19	41.29	13.33	78.44
2	5112301081442178	49.53	14.22	554.27	41.53	13.35	78.72
3	5112301081442472	49.54	14.18	552.05	41.41	13.33	78.58
4	5112301081442374	49.03	14.18	550.91	41.72	13.20	79.24
5	5112301081442416	49.35	14.19	550.37	41.36	13.31	78.59
6	5112301081442120	49.04	14.18	550.20	41.68	13.20	79.13
7	5112301081442428	49.59	14.21	551.88	41.44	13.32	78.35
8	5112301081442549	49.16	14.20	550.20	41.71	13.19	78.80
9	5112301081442555	49.16	14.22	552.06	41.76	13.22	78.99
10	5112301081442306	49.54	14.21	554.71	41.58	13.34	78.83
11	5112301081442553	49.30	14.22	553.67	41.81	13.24	78.99
12	5112301081442559	49.48	14.24	551.66	41.30	13.36	78.31
13	5112301081442453	49.26	14.20	553.81	41.96	13.20	79.17
14	5112301081442546	49.58	14.20	550.75	41.32	13.33	78.23

15	5112301081442562	49.45	14.23	552.06	41.33	13.36	78.44
16	5112301081442560	49.46	14.24	551.56	41.25	13.37	78.34
17	5112301081442519	49.40	14.21	552.54	41.35	13.36	78.72
18	5112301081442326	49.06	14.19	552.10	41.69	13.24	79.30
19	5112301081442368	49.40	14.17	550.45	41.40	13.30	78.63
20	5112301081442539	49.22	14.21	550.96	41.68	13.22	78.77
21	5112301081442563	49.56	14.21	551.21	41.32	13.34	78.29
22	5112301081442500	49.05	14.23	550.43	41.58	13.24	78.87
23	5112301081442541	49.22	14.19	552.61	41.84	13.21	79.13
24	5112301081442049	49.48	14.19	551.77	41.37	13.34	78.57
25	5112301081442536	49.16	14.22	550.06	41.47	13.26	78.68
26	5112301081442540	49.59	14.22	552.18	41.32	13.36	78.31
27	5112301081442430	49.61	14.16	552.25	41.49	13.31	78.60
28	5112301081442535	49.28	14.19	552.86	41.83	13.22	79.04
29	5112301081442501	49.64	14.19	552.64	41.67	13.26	78.43
30	5112301081442550	49.31	14.20	551.32	41.73	13.21	78.71
31	5112301081442517	49.72	14.17	551.27	41.31	13.35	78.22
SP112301080503							
1	5112301081442359	49.61	14.18	554.24	41.60	13.32	78.76
2	5112301081442547	49.07	14.21	550.81	41.63	13.23	78.98
3	5112301081442360	49.04	14.21	550.37	41.62	13.22	78.97
4	5112301081442447	49.38	14.22	551.69	41.34	13.35	78.55
5	5112301081442543	49.43	14.24	554.57	41.53	13.35	78.81
6	5112301081442523	49.57	14.21	550.61	41.24	13.35	78.15
7	5112301081442228	49.45	14.19	551.70	41.52	13.29	78.62
8	5112301081442276	49.44	14.20	551.28	41.50	13.28	78.56
9	5112301081442194	49.51	14.21	552.27	41.39	13.34	78.47
10	5112301081442047	49.54	14.22	553.39	41.37	13.38	78.58
11	5112301081442273	49.15	14.19	550.89	41.57	13.25	78.96
12	5112301081442485	49.40	14.18	551.46	41.32	13.35	78.74
13	5112301081442435	49.64	14.20	551.80	41.35	13.34	78.30
14	5112301081442459	49.50	14.17	553.48	41.57	13.31	78.89
15	5112301081442409	49.40	14.25	550.21	41.59	13.23	78.13
16	5112301081442495	49.39	14.25	550.27	41.59	13.23	78.16
17	5112301081442357	49.37	14.22	552.78	41.83	13.22	78.74
18	5112301081442544	49.35	14.22	552.83	41.81	13.22	78.78
19	5112301081442537	49.26	14.23	550.87	41.58	13.25	78.60
20	5112301081442595	49.34	14.27	552.57	41.63	13.27	78.50
21	5112301081442692	49.34	14.27	552.74	41.61	13.28	78.50
22	5112301081442664	49.63	14.19	553.22	41.36	13.38	78.56
23	5112301081442484	49.38	14.26	550.28	41.59	13.23	78.17
24	5112301081442370	49.31	14.22	552.65	41.81	13.22	78.79
25	5112301081442702	49.44	14.23	550.08	41.25	13.33	78.20
26	5112301081442662	49.21	14.23	550.64	41.57	13.25	78.66
27	5112301081442665	49.20	14.22	550.27	41.53	13.25	78.62
28	5112301081442351	49.20	14.25	551.89	41.61	13.26	78.70
29	5112301081442709	49.03	14.24	550.58	41.62	13.23	78.88
30	5112301081442701	49.99	13.96	552.31	41.65	13.26	79.14
31	5112301081442510	49.30	14.25	552.35	41.62	13.27	78.62

SP112301080504							
1	5112301081442700	49.43	14.22	554.50	41.43	13.38	78.88
2	5112301081442571	49.48	14.26	554.80	41.41	13.40	78.61
3	5112301081442597	49.42	14.24	554.19	41.40	13.39	78.75
4	5112301081442599	49.03	14.26	551.52	41.77	13.20	78.88
5	5112301081442349	49.46	14.24	554.01	41.40	13.38	78.65
6	5112301081442598	49.08	14.25	551.72	41.60	13.26	78.88
7	5112301081442600	49.59	14.23	552.87	41.38	13.36	78.35
8	5112301081442680	49.32	14.26	552.70	41.76	13.24	78.58
9	5112301081442584	49.35	14.22	553.56	41.86	13.22	78.86
10	5112301081442675	49.30	14.22	553.15	41.83	13.22	78.87
11	5112301081442672	49.22	14.27	552.92	41.64	13.28	78.73
12	5112301081442693	49.16	14.30	550.68	41.50	13.27	78.31
13	5112301081442522	49.34	14.22	553.68	41.85	13.23	78.88
14	5112301081442369	49.35	14.31	550.38	41.06	13.41	77.91
15	5112301081442446	49.61	14.29	554.29	41.32	13.41	78.20
16	5112301081442362	49.33	14.26	553.01	41.77	13.24	78.61
17	5112301081442585	49.13	14.28	554.69	41.72	13.30	79.07
18	5112301081442573	49.31	14.25	552.21	41.61	13.27	78.59
19	5112301081442588	49.19	14.29	554.48	41.70	13.30	78.90
20	5112301081442673	49.01	14.29	554.11	41.69	13.29	79.15
21	5112301081442586	49.41	14.25	553.76	41.47	13.35	78.63
22	5112301081442589	49.18	14.27	551.34	41.48	13.29	78.55
23	5112301081442591	49.21	14.31	554.44	41.58	13.34	78.75
24	5112301081442590	49.68	14.29	554.48	41.33	13.42	78.12
25	5112301081442572	49.31	14.23	554.37	41.98	13.21	79.02
26	5112301081442669	49.34	14.23	552.97	41.86	13.21	78.77
27	5112301081442667	49.32	14.23	553.57	41.91	13.21	78.90
28	5112301081442593	49.37	14.22	552.96	41.79	13.23	78.75
29	5112301081442594	49.32	14.23	551.79	41.70	13.23	78.63
30	5112301081442592	49.71	14.24	552.82	41.31	13.38	78.07
31	5112301081442482	49.39	14.24	552.93	41.73	13.25	78.60
SP112301080505							
1	5112301081442661	49.39	14.22	553.34	41.83	13.23	78.81
2	5112301081442414	49.60	14.21	550.21	41.24	13.34	78.08
3	5112301081442358	49.48	14.24	551.01	41.54	13.26	78.23
4	5112301081442668	49.49	14.23	550.83	41.54	13.26	78.20
5	5112301081442344	49.11	14.29	550.11	41.50	13.26	78.41
6	5112301081442552	49.13	14.29	550.18	41.50	13.26	78.37
7	5112301081442683	49.41	14.25	553.83	41.78	13.26	78.67
8	5112301081442682	49.42	14.25	554.39	41.81	13.26	78.70
9	5112301081442347	49.44	14.25	554.29	41.81	13.26	78.68
10	5112301081442717	49.97	14.37	554.29	41.18	13.46	77.20
11	5112301081442681	49.55	14.30	553.03	41.68	13.27	78.02
12	5112301081442496	49.47	14.26	552.12	41.98	13.15	78.28
13	5112301081442581	49.48	14.33	553.57	41.52	13.33	78.07
14	5112301081442587	49.13	14.34	552.83	41.63	13.28	78.48
15	5112301081442691	49.44	14.34	553.17	41.61	13.29	78.02
16	5112301081442696	49.64	14.31	553.24	41.20	13.43	77.86

17	5112301081442657	49.46	14.33	553.39	41.61	13.30	78.09
18	5112301081442601	49.44	14.33	552.97	41.58	13.30	78.05
19	5112301081442626	49.27	14.31	551.95	41.37	13.34	78.27
20	5112301081442515	49.57	14.29	553.36	41.60	13.30	78.13
21	5112301081442629	49.50	14.33	554.33	41.56	13.34	78.17
22	5112301081442520	49.30	14.29	553.20	41.36	13.38	78.54
23	5112301081442687	49.31	14.31	553.34	41.55	13.32	78.43
24	5112301081442345	49.25	14.34	552.50	41.35	13.36	78.23
25	5112301081442518	49.13	14.28	550.70	41.32	13.33	78.52
26	5112301081442508	49.15	14.33	552.63	41.31	13.38	78.47
27	5112301081442577	49.26	14.33	550.22	40.86	13.47	77.93
28	5112301081442497	49.17	14.30	552.08	41.44	13.32	78.54
29	5112301081442361	49.41	14.33	553.32	41.12	13.46	78.13
30	5112301081442580	49.31	14.33	553.39	41.60	13.30	78.35
31	5112301081442671	49.29	14.33	553.52	41.61	13.30	78.38
SP112301080506							
1	5112301081442578	49.68	14.31	554.90	42.02	13.20	78.07
2	5112301081442659	49.18	14.32	552.30	41.24	13.39	78.43
3	5112301081442356	49.29	14.34	554.11	41.53	13.34	78.40
4	5112301081442538	49.43	14.33	553.24	41.13	13.45	78.10
5	5112301081442507	49.25	14.35	550.71	40.94	13.45	77.92
6	5112301081442348	49.32	14.33	553.08	41.60	13.30	78.27
7	5112301081442744	49.25	14.29	554.17	41.59	13.32	78.76
8	5112301081442652	49.32	14.28	553.82	41.57	13.32	78.61
9	5112301081442800	49.28	14.33	552.19	41.34	13.36	78.22
10	5112301081442452	49.23	14.31	552.32	41.43	13.33	78.39
11	5112301081442699	49.13	14.33	550.99	41.22	13.37	78.25
12	5112301081442346	49.28	14.31	550.29	40.91	13.45	78.01
13	5112301081442690	49.20	14.31	550.60	41.37	13.31	78.23
14	5112301081442564	49.60	14.30	554.36	41.31	13.42	78.14
15	5112301081442689	49.70	14.30	554.97	41.31	13.43	78.10
16	5112301081442628	49.29	14.32	552.32	41.47	13.32	78.23
17	5112301081442698	49.61	14.30	554.87	41.28	13.44	78.21
18	5112301081442575	49.17	14.31	551.66	41.43	13.32	78.43
19	5112301081442624	49.22	14.31	553.24	41.48	13.34	78.57
20	5112301081442655	49.26	14.32	552.82	41.50	13.32	78.39
21	5112301081442658	49.30	14.31	552.04	41.51	13.30	78.25
22	5112301081442512	49.23	14.31	553.02	41.44	13.34	78.49
23	5112301081442728	49.34	14.32	553.64	41.53	13.33	78.37
24	5112301081442654	49.34	14.29	550.38	41.15	13.38	78.05
25	5112301081442697	49.10	14.30	550.31	41.35	13.31	78.38
26	5112301081442526	49.37	14.27	552.23	41.50	13.31	78.40
27	5112301081442653	49.36	14.29	550.05	41.31	13.32	78.00
28	5112301081442180	49.46	14.28	554.74	41.75	13.29	78.53
29	5112301081441993	49.35	14.28	552.84	41.56	13.30	78.47
30	5112301081442679	49.51	14.34	552.29	41.13	13.43	77.81
31	5112301081442481	49.49	14.29	554.93	41.46	13.38	78.46
SP112301080507							
1	5112301081442480	49.36	14.30	552.01	41.37	13.34	78.21

2	5112301081442506	49.49	14.30	554.04	41.61	13.32	78.28
3	5112301081442660	49.41	14.32	553.07	41.08	13.46	78.16
4	5112301081442443	49.38	14.28	554.19	41.76	13.27	78.58
5	5112301081442467	49.24	14.33	552.55	41.40	13.35	78.32
6	5112301081442551	49.48	14.30	552.56	41.31	13.38	78.08
7	5112301081442557	49.02	14.33	550.90	41.20	13.37	78.43
8	5112301081442747	49.54	14.30	554.62	41.67	13.31	78.30
9	5112301081442630	49.45	14.30	551.47	41.10	13.42	78.00
10	5112301081442620	49.41	14.30	551.42	41.06	13.43	78.05
11	5112301081442574	49.51	14.29	553.92	41.19	13.45	78.31
12	5112301081442579	49.50	14.29	553.67	41.19	13.44	78.29
13	5112301081442688	49.49	14.31	553.19	41.53	13.32	78.13
14	5112301081442651	49.43	14.30	554.87	41.65	13.32	78.50
15	5112301081442583	49.40	14.28	551.40	41.46	13.30	78.14
16	5112301081442677	49.48	14.25	553.44	41.67	13.28	78.51
17	5112301081442674	49.44	14.30	550.10	41.28	13.33	77.81
18	5112301081442582	49.90	14.30	554.72	41.26	13.45	77.77
19	5112301081442666	49.58	14.25	553.48	41.68	13.28	78.32
20	5112301081442678	49.59	14.25	553.30	41.65	13.28	78.29
21	5112301081442676	49.28	14.35	551.88	41.30	13.36	78.06
22	5112301081442609	49.28	14.34	551.61	41.31	13.35	78.04
23	5112301081442521	49.25	14.30	551.67	41.41	13.32	78.36
24	5112301081442613	49.23	14.29	552.74	41.50	13.32	78.59
25	5112301081442643	49.18	14.33	551.76	41.33	13.35	78.27
26	5112301081442773	49.18	14.33	551.81	41.34	13.35	78.29
27	5112301081442622	49.05	14.31	550.35	41.29	13.33	78.40
28	5112301081442748	49.19	14.33	551.60	41.15	13.41	78.23
29	5112301081442618	49.51	14.32	554.57	41.19	13.46	78.21
30	5112301081442751	49.29	14.32	552.90	41.48	13.33	78.34
31	5112301081442650	49.19	14.31	552.05	41.45	13.32	78.42
SP112301080508							
1	5112301081442646	49.15	14.32	551.15	41.39	13.32	78.33
2	5112301081442616	49.58	14.31	554.09	41.32	13.41	78.06
3	5112301081442647	49.27	14.31	553.40	41.59	13.31	78.47
4	5112301081442771	49.32	14.33	553.44	41.56	13.32	78.30
5	5112301081442623	49.25	14.30	554.85	41.54	13.36	78.79
6	5112301081442615	49.29	14.34	553.76	41.63	13.30	78.33
7	5112301081442645	49.26	14.29	553.14	41.49	13.33	78.55
8	5112301081442753	49.33	14.32	552.52	41.40	13.34	78.21
9	5112301081442648	49.37	14.29	552.68	41.59	13.29	78.33
10	5112301081442617	49.46	14.29	554.78	41.61	13.33	78.50
11	5112301081442750	49.38	14.29	553.20	41.61	13.30	78.38
12	5112301081442644	49.41	14.29	552.69	41.56	13.30	78.28
13	5112301081442649	49.40	14.29	551.68	41.50	13.29	78.16
14	5112301081442642	49.83	14.31	554.87	41.27	13.44	77.84
15	5112301081442511	49.34	14.24	551.21	41.44	13.30	78.48
16	5112301081442621	49.37	14.24	551.05	41.43	13.30	78.39
17	5112301081442746	49.46	14.32	554.76	41.60	13.34	78.33
18	5112301081442745	49.49	14.31	554.71	41.58	13.34	78.31

19	5112301081442619	49.33	14.33	554.81	41.67	13.31	78.50
20	5112301081442695	49.42	14.33	552.26	41.04	13.46	77.99
21	5112301081442444	49.01	14.35	551.59	41.43	13.31	78.45
22	5112301081442445	49.35	14.29	554.09	41.63	13.31	78.55
23	5112301081442463	49.48	14.32	554.27	41.26	13.44	78.25
24	5112301081442400	49.22	14.30	552.06	41.54	13.29	78.42
25	5112301081442608	49.70	14.25	552.54	41.53	13.31	78.00
26	5112301081442776	49.32	14.25	551.84	41.49	13.30	78.50
27	5112301081442633	49.46	14.30	553.59	41.64	13.30	78.28
28	5112301081442558	49.45	14.34	552.98	41.02	13.48	77.99
29	5112301081442769	49.41	14.30	551.82	41.41	13.32	78.12
30	5112301081442607	49.48	14.29	553.53	41.64	13.29	78.27
31	5112301081442641	49.52	14.32	552.30	41.17	13.41	77.89
SP112301080509							
1	5112301081442764	49.49	14.30	553.41	41.62	13.30	78.20
2	5112301081442640	49.51	14.32	552.30	41.17	13.42	77.89
3	5112301081442763	49.49	14.32	552.04	41.14	13.42	77.88
4	5112301081442774	49.74	14.29	554.64	41.37	13.41	78.04
5	5112301081442639	49.71	14.29	554.70	41.37	13.41	78.09
6	5112301081442772	49.75	14.28	554.52	41.37	13.40	78.03
7	5112301081442612	49.28	14.30	550.09	41.26	13.33	78.03
8	5112301081442766	49.33	14.31	550.22	41.25	13.34	77.95
9	5112301081442768	49.52	14.27	552.67	41.11	13.44	78.20
10	5112301081442631	49.36	14.23	551.63	41.52	13.29	78.52
11	5112301081442950	49.12	14.29	550.71	41.36	13.32	78.43
12	5112301081442918	49.60	14.28	552.71	41.25	13.40	78.02
13	5112301081442920	49.27	14.26	553.32	41.79	13.24	78.77
14	5112301081442606	49.38	14.28	554.99	41.77	13.29	78.71
15	5112301081442778	49.57	14.29	554.78	41.79	13.27	78.33
16	5112301081442770	49.61	14.25	551.67	41.13	13.41	78.04
17	5112301081442916	49.60	14.25	554.66	41.37	13.41	78.50
18	5112301081442917	49.16	14.27	550.20	41.10	13.39	78.45
19	5112301081442637	49.13	14.31	551.21	41.43	13.31	78.39
20	5112301081442782	49.15	14.27	552.49	41.61	13.28	78.76
21	5112301081442828	49.61	14.29	554.92	41.31	13.43	78.28
22	5112301081442818	49.59	14.29	554.77	41.21	13.46	78.27
23	5112301081442830	49.08	14.28	552.21	41.50	13.31	78.82
24	5112301081442815	49.12	14.27	553.13	41.70	13.26	78.91
25	5112301081442936	49.23	14.30	554.61	41.68	13.31	78.78
26	5112301081442566	49.17	14.30	554.84	41.73	13.30	78.92
27	5112301081442779	49.66	14.30	554.28	41.30	13.42	78.09
28	5112301081442755	49.20	14.27	552.94	41.58	13.30	78.74
29	5112301081442777	49.27	14.32	550.90	41.35	13.32	78.07
30	5112301081442602	49.37	14.29	550.34	41.37	13.30	78.01
31	5112301081442636	49.28	14.30	553.22	41.52	13.32	78.49
SP112301080510							
1	5112301081443206	49.63	14.08	551.63	42.09	13.10	78.93
2	5112301081442039	49.83	14.15	552.12	41.76	13.22	78.29
3	5112301081442116	49.66	14.17	552.59	41.96	13.17	78.54

4	5112301081442333	49.49	14.16	550.64	41.37	13.31	78.56
5	5112301081442107	49.69	14.14	554.14	41.81	13.26	78.85
6	5112301081442404	49.61	14.20	550.84	41.41	13.30	78.21
7	5112301081442210	49.54	14.19	553.00	41.73	13.25	78.67
8	5112301081441835	49.84	14.29	553.39	41.59	13.30	77.69
9	5112301081441864	49.66	14.18	551.47	41.70	13.23	78.30
10	5112301081442365	49.41	14.18	553.36	41.54	13.32	78.98
11	5112301081442254	49.19	14.23	552.97	41.84	13.22	78.97
12	5112301081442287	49.58	14.18	554.15	41.57	13.33	78.84
13	5112301081442249	49.21	14.19	552.92	41.87	13.21	79.21
14	5112301081442006	49.21	14.21	551.33	41.71	13.22	78.86
15	5112301081442476	49.16	14.20	551.69	41.67	13.24	79.01
16	5112301081442415	49.46	14.17	554.30	41.51	13.35	79.10
17	5112301081442596	49.84	14.25	554.37	41.54	13.34	78.05
18	5112301081442499	49.22	14.33	552.90	41.66	13.27	78.41
19	5112301081442656	49.33	14.28	550.73	41.45	13.29	78.17
20	5112301081442457	49.46	14.30	553.09	41.33	13.38	78.21
21	5112301081442614	49.25	14.32	552.79	41.48	13.33	78.37
22	5112301081442413	49.37	14.27	550.75	41.48	13.28	78.15
23	5112301081442605	49.80	14.30	554.80	41.25	13.45	77.91
24	5112301081442911	49.33	14.30	551.57	41.58	13.27	78.17
25	5112301081442780	49.33	14.28	551.97	41.53	13.29	78.35
26	5112301081442756	49.23	14.27	552.18	41.57	13.28	78.62
27	5112301081442767	49.67	14.27	554.87	41.39	13.41	78.30
28	5112301081442919	49.38	14.25	552.79	41.62	13.28	78.55
29	5112301081442861	49.45	14.28	554.99	41.68	13.32	78.61
30	5112301081442663	49.23	14.09	553.14	42.01	13.17	79.76
31	5112301081442509	49.63	14.08	550.47	41.54	13.25	78.79
SP112301080511							
1	5112301081443044	49.65	14.24	554.38	41.74	13.28	78.39
2	5112301081443023	49.33	14.39	554.61	41.36	13.41	78.14
3	5112301081442907	49.59	14.19	552.22	41.74	13.23	78.45
4	5112301081442789	49.56	14.21	551.61	41.60	13.26	78.29
5	5112301081442807	49.94	14.18	553.97	41.43	13.37	78.20
6	5112301081442796	49.52	14.17	550.30	41.71	13.19	78.41
7	5112301081443075	49.61	14.20	551.19	41.62	13.24	78.24
8	5112301081442603	49.62	14.20	553.06	41.71	13.26	78.46
9	5112301081442757	49.42	14.16	550.12	41.60	13.22	78.62
10	5112301081442816	49.49	14.17	550.65	41.55	13.25	78.54
11	5112301081442758	49.88	14.21	554.44	41.51	13.36	78.22
12	5112301081442913	49.67	14.19	553.32	41.41	13.36	78.50
13	5112301081442790	49.63	14.20	552.55	41.35	13.36	78.38
14	5112301081442909	49.71	14.18	554.57	41.52	13.36	78.67
15	5112301081442732	49.38	14.20	550.21	41.24	13.34	78.48
16	5112301081443070	49.54	14.23	551.35	41.28	13.35	78.23
17	5112301081443127	49.85	14.21	554.79	41.52	13.36	78.31
18	5112301081443135	49.50	14.21	551.64	41.39	13.33	78.41
19	5112301081443118	49.85	14.24	554.49	41.46	13.37	78.12
20	5112301081443141	49.73	14.23	553.18	41.32	13.39	78.17

21	5112301081443028	49.31	14.22	551.05	41.60	13.25	78.62
22	5112301081443041	49.71	14.21	553.63	41.38	13.38	78.36
23	5112301081443031	49.38	14.22	550.59	41.24	13.35	78.40
24	5112301081443060	49.68	14.20	553.71	41.36	13.39	78.51
25	5112301081442743	49.88	14.15	554.62	41.59	13.33	78.55
26	5112301081442822	49.66	14.20	552.03	41.23	13.39	78.26
27	5112301081443100	49.36	14.22	550.19	41.41	13.29	78.37
28	5112301081443057	49.77	14.18	554.19	41.40	13.39	78.51
29	5112301081443067	49.35	14.22	550.33	41.46	13.27	78.44
30	5112301081443113	49.54	14.24	553.69	41.61	13.31	78.50
31	5112301081442731	49.75	14.21	553.54	41.79	13.24	78.32
SP112301080512							
1	5112301081443059	49.49	14.21	552.02	41.19	13.40	78.46
2	5112301081443114	49.60	14.24	554.60	41.71	13.30	78.53
3	5112301081443110	49.43	14.21	551.34	41.63	13.24	78.49
4	5112301081443062	49.91	14.22	553.74	41.30	13.41	78.05
5	5112301081443128	49.62	14.25	553.66	41.65	13.29	78.31
6	5112301081442870	49.76	14.18	552.82	41.76	13.24	78.37
7	5112301081442738	49.51	14.32	553.30	41.48	13.34	78.03
8	5112301081442821	49.71	14.20	551.58	41.21	13.38	78.15
9	5112301081442898	49.56	14.22	550.43	41.49	13.27	78.10
10	5112301081443120	49.53	14.23	552.46	41.30	13.38	78.39
11	5112301081442734	49.57	14.19	552.55	41.76	13.23	78.53
12	5112301081443136	49.46	14.24	550.39	41.46	13.28	78.14
13	5112301081442735	49.91	14.14	552.86	41.40	13.35	78.32
14	5112301081442905	49.60	14.22	552.14	41.65	13.26	78.29
15	5112301081442901	49.56	14.22	550.31	41.55	13.25	78.07
16	5112301081442611	49.57	14.34	554.99	41.46	13.38	78.09
17	5112301081442899	49.92	14.18	554.82	41.42	13.39	78.40
18	5112301081442737	49.44	14.15	551.00	41.34	13.33	78.77
19	5112301081442896	49.97	14.17	552.85	41.41	13.35	78.07
20	5112301081443066	49.89	14.22	554.64	41.42	13.39	78.16
21	5112301081443022	49.86	14.22	554.06	41.44	13.37	78.13
22	5112301081443058	49.81	14.21	552.06	41.28	13.37	78.00
23	5112301081443119	49.37	14.24	550.28	41.49	13.26	78.27
24	5112301081443123	49.43	14.27	551.49	41.52	13.28	78.17
25	5112301081443005	49.38	14.21	550.65	41.43	13.29	78.48
26	5112301081443088	49.22	14.26	550.40	41.40	13.30	78.44
27	5112301081443099	49.87	14.22	554.76	41.48	13.38	78.24
28	5112301081443078	49.94	14.20	554.40	41.37	13.40	78.17
29	5112301081443125	49.46	14.28	551.15	41.54	13.27	78.04
30	5112301081443072	49.44	14.21	550.65	41.46	13.28	78.37
31	5112301081443098	49.56	14.21	550.67	41.18	13.37	78.21
SP112301080513							
1	5112301081442765	49.48	14.17	552.21	41.71	13.24	78.78
2	5112301081442897	49.49	14.20	552.75	41.64	13.28	78.68
3	5112301081442775	49.71	14.20	553.25	41.33	13.39	78.37
4	5112301081443140	49.45	14.22	551.06	41.71	13.21	78.37
5	5112301081442925	49.56	14.20	551.19	41.26	13.36	78.32

6	5112301081443056	49.54	14.21	551.20	41.16	13.39	78.27
7	5112301081442791	49.93	14.16	553.12	41.32	13.39	78.22
8	5112301081443105	49.46	14.25	553.80	41.77	13.26	78.59
9	5112301081443134	49.55	14.26	550.61	41.12	13.39	77.96
10	5112301081442836	49.29	14.28	551.16	41.39	13.32	78.33
11	5112301081443007	49.55	14.27	553.25	41.47	13.34	78.27
12	5112301081443138	49.40	14.29	554.83	41.56	13.35	78.61
13	5112301081443061	49.42	14.24	551.65	41.44	13.31	78.40
14	5112301081443131	49.09	14.32	550.38	41.29	13.33	78.30
15	5112301081442947	49.33	14.19	550.70	41.52	13.26	78.67
16	5112301081443112	49.51	14.27	553.19	41.46	13.34	78.28
17	5112301081443071	49.47	14.26	550.74	41.37	13.31	78.06
18	5112301081443139	49.59	14.28	550.98	41.00	13.44	77.83
19	5112301081442823	49.69	14.23	552.08	41.52	13.30	78.08
20	5112301081443142	49.61	14.27	554.10	41.56	13.33	78.25
21	5112301081443102	49.59	14.26	552.84	41.24	13.41	78.18
22	5112301081443087	49.59	14.28	551.41	41.03	13.44	77.84
23	5112301081442976	49.47	14.34	553.40	41.49	13.34	78.01
24	5112301081443163	49.46	14.28	554.93	41.66	13.32	78.55
25	5112301081443003	49.46	14.22	552.44	41.48	13.32	78.53
26	5112301081443068	49.45	14.30	553.26	41.09	13.47	78.26
27	5112301081443063	49.29	14.25	552.69	41.52	13.31	78.66
28	5112301081442833	49.20	14.31	550.45	41.02	13.42	78.18
29	5112301081442952	49.35	14.29	552.98	41.43	13.35	78.41
30	5112301081443137	49.40	14.27	550.70	41.00	13.43	78.12
31	5112301081443082	49.57	14.24	554.50	41.66	13.31	78.55
SP112301080514							
1	5112301081443258	49.17	14.29	551.18	41.39	13.32	78.43
2	5112301081443064	49.56	14.27	554.16	41.17	13.46	78.34
3	5112301081443080	49.35	14.32	554.71	41.56	13.35	78.52
4	5112301081443117	49.67	14.28	554.88	41.25	13.45	78.25
5	5112301081443165	49.31	14.30	551.24	41.33	13.34	78.19
6	5112301081443156	49.47	14.28	552.79	41.11	13.45	78.25
7	5112301081443004	49.52	14.48	552.59	41.36	13.36	77.05
8	5112301081443085	49.73	14.33	554.01	41.04	13.50	77.74
9	5112301081443265	49.07	14.29	551.25	41.30	13.35	78.61
10	5112301081443076	49.56	14.43	553.29	41.49	13.34	77.40
11	5112301081442708	49.81	14.23	553.23	41.13	13.45	78.05
12	5112301081442805	49.41	14.28	554.24	41.55	13.34	78.56
13	5112301081443095	49.61	14.43	551.85	41.46	13.31	77.11
14	5112301081443052	49.66	14.24	550.87	41.16	13.38	77.92
15	5112301081442914	49.67	14.18	550.93	41.60	13.24	78.25
16	5112301081442819	49.72	14.19	552.59	41.74	13.24	78.35
17	5112301081442922	49.77	14.21	553.11	41.78	13.24	78.22
18	5112301081443096	49.56	14.27	553.91	41.57	13.32	78.30
19	5112301081442813	49.70	14.18	554.97	41.99	13.22	78.77
20	5112301081442856	49.98	14.21	554.87	41.41	13.40	78.12
21	5112301081442973	49.26	14.28	551.93	41.42	13.33	78.45
22	5112301081442827	49.78	14.15	552.10	41.85	13.19	78.40

23	5112301081442961	49.55	14.28	553.69	41.63	13.30	78.25
24	5112301081442795	49.72	14.26	553.37	41.14	13.45	78.03
25	5112301081442817	49.45	14.18	550.50	41.77	13.18	78.51
26	5112301081443013	49.66	14.28	554.62	41.59	13.34	78.23
27	5112301081442965	49.29	14.29	552.34	41.38	13.35	78.42
28	5112301081442736	49.54	14.15	550.24	41.62	13.22	78.50
29	5112301081442964	49.50	14.28	554.27	41.52	13.35	78.43
30	5112301081442967	49.54	14.27	553.27	41.54	13.32	78.23
31	5112301081442893	49.56	14.20	550.87	41.53	13.26	78.27
SP112301080515							
1	5112301081442962	49.71	14.27	554.67	41.59	13.34	78.18
2	5112301081442853	49.40	14.21	550.65	41.53	13.26	78.44
3	5112301081443160	49.46	14.33	552.63	41.01	13.47	77.97
4	5112301081443167	49.48	14.35	554.95	41.50	13.37	78.14
5	5112301081443161	49.44	14.30	553.21	41.09	13.46	78.22
6	5112301081443221	49.29	14.30	551.82	41.44	13.32	78.29
7	5112301081443270	49.04	14.29	550.23	41.17	13.36	78.49
8	5112301081442354	49.21	14.30	551.16	41.31	13.34	78.31
9	5112301081443183	49.67	14.27	553.45	41.12	13.46	78.07
10	5112301081443220	49.31	14.32	552.41	41.39	13.35	78.21
11	5112301081443271	49.33	14.30	551.16	41.36	13.33	78.12
12	5112301081443262	49.38	14.30	552.04	41.31	13.36	78.18
13	5112301081443158	49.56	14.31	552.80	41.00	13.48	77.95
14	5112301081442353	49.19	14.32	552.17	41.50	13.31	78.39
15	5112301081443173	49.45	14.30	554.16	41.48	13.36	78.37
16	5112301081443273	49.57	14.29	552.87	41.11	13.45	78.06
17	5112301081443218	49.33	14.28	554.81	41.53	13.36	78.76
18	5112301081442804	49.40	14.28	553.83	41.57	13.32	78.49
19	5112301081443182	49.26	14.26	550.14	41.39	13.29	78.29
20	5112301081442834	49.76	14.24	553.26	41.18	13.43	78.11
21	5112301081443033	49.57	14.28	552.06	41.41	13.33	78.02
22	5112301081443093	49.49	14.28	554.34	41.55	13.34	78.46
23	5112301081442852	49.61	14.25	554.61	41.62	13.33	78.48
24	5112301081442854	49.59	14.28	553.47	41.53	13.33	78.17
25	5112301081443025	49.53	14.27	554.96	41.69	13.31	78.51
26	5112301081442857	49.49	14.29	553.36	41.48	13.34	78.25
27	5112301081443017	49.68	14.24	554.07	41.19	13.45	78.29
28	5112301081443011	49.62	14.29	554.92	41.59	13.34	78.27
29	5112301081442971	49.66	14.29	554.90	41.58	13.34	78.18
30	5112301081442794	49.53	14.23	552.10	41.55	13.29	78.34
31	5112301081442561	49.62	14.26	554.01	41.64	13.31	78.30
SP112301080516							
1	5112301081442803	49.42	14.30	553.06	41.52	13.32	78.25
2	5112301081442972	49.43	14.28	553.39	41.51	13.33	78.40
3	5112301081443024	49.51	14.28	553.05	41.54	13.31	78.20
4	5112301081443184	49.60	14.31	554.08	41.48	13.36	78.08
5	5112301081443261	49.66	14.24	554.51	41.82	13.26	78.42
6	5112301081443272	49.70	14.30	553.28	41.06	13.47	77.85
7	5112301081443284	49.69	14.20	553.87	41.73	13.27	78.47

8	5112301081443124	49.73	14.22	554.12	41.44	13.37	78.37
9	5112301081443189	49.43	14.21	551.03	41.53	13.27	78.44
10	5112301081443223	49.35	14.24	550.68	41.51	13.27	78.37
11	5112301081443149	49.59	14.24	554.57	41.67	13.31	78.52
12	5112301081443191	49.86	14.21	554.42	41.37	13.40	78.24
13	5112301081443294	49.48	14.27	551.95	41.47	13.31	78.19
14	5112301081443151	49.56	14.26	554.95	41.67	13.32	78.54
15	5112301081443148	49.45	14.25	550.06	41.36	13.30	78.07
16	5112301081443185	49.35	14.24	550.01	41.16	13.36	78.30
17	5112301081443144	49.57	14.24	552.33	41.20	13.40	78.24
18	5112301081443065	49.36	14.22	550.20	41.45	13.28	78.42
19	5112301081443279	49.59	14.23	552.72	41.25	13.40	78.32
20	5112301081443282	49.46	14.24	550.03	41.10	13.38	78.08
21	5112301081443280	49.35	14.23	551.23	41.51	13.28	78.47
22	5112301081443222	49.39	14.21	551.70	41.61	13.26	78.62
23	5112301081443281	49.50	14.23	553.58	41.64	13.29	78.58
24	5112301081443188	49.59	14.24	554.03	41.69	13.29	78.46
25	5112301081443213	49.51	14.23	553.39	41.72	13.26	78.56
26	5112301081443215	49.59	14.26	551.92	41.51	13.30	78.07
27	5112301081443219	49.64	14.21	554.01	41.86	13.24	78.53
28	5112301081443295	49.63	14.25	553.24	41.68	13.27	78.22
29	5112301081443008	49.54	14.15	552.43	41.73	13.24	78.79
30	5112301081442959	49.64	14.17	552.00	41.67	13.25	78.48
31	5112301081443147	49.63	14.26	553.64	41.62	13.30	78.23
SP112301080517							
1	5112301081442840	49.70	14.21	552.18	41.28	13.38	78.21
2	5112301081443042	49.28	14.23	550.65	41.48	13.27	78.50
3	5112301081443132	49.71	14.23	554.73	41.80	13.27	78.43
4	5112301081443079	49.79	14.18	554.51	41.78	13.27	78.53
5	5112301081443145	49.85	14.21	554.30	41.84	13.25	78.23
6	5112301081442710	49.70	14.19	554.12	41.86	13.24	78.60
7	5112301081443133	49.75	14.20	554.78	41.77	13.28	78.54
8	5112301081443269	49.42	14.22	552.13	41.64	13.26	78.54
9	5112301081443259	49.77	14.24	553.94	41.37	13.39	78.17
10	5112301081443129	49.75	14.22	552.46	41.41	13.34	78.08
11	5112301081443345	49.35	14.21	552.29	41.55	13.29	78.77
12	5112301081442802	49.69	14.21	550.82	41.61	13.24	78.03
13	5112301081442966	49.71	14.19	553.84	41.89	13.22	78.53
14	5112301081443026	49.79	14.20	554.27	41.41	13.39	78.38
15	5112301081442859	49.57	14.29	552.88	41.36	13.37	78.03
16	5112301081442858	49.67	14.16	552.86	41.72	13.25	78.59
17	5112301081443027	49.68	14.19	551.95	41.69	13.24	78.31
18	5112301081443260	49.58	14.20	552.01	41.66	13.25	78.40
19	5112301081443046	49.93	14.18	553.67	41.40	13.37	78.23
20	5112301081443097	49.59	14.17	551.98	41.66	13.25	78.55
21	5112301081443275	49.60	14.22	550.10	41.16	13.37	78.01
22	5112301081443091	49.75	14.17	553.93	41.80	13.25	78.56
23	5112301081443010	49.63	14.21	550.39	41.56	13.24	78.05
24	5112301081443083	49.63	14.21	550.58	41.55	13.25	78.06

25	5112301081443077	49.66	14.21	554.19	41.71	13.29	78.56
26	5112301081442974	49.65	14.21	553.82	41.69	13.28	78.49
27	5112301081443018	49.76	14.20	553.90	41.47	13.36	78.38
28	5112301081442848	49.93	14.16	552.61	41.59	13.29	78.16
29	5112301081443081	49.54	14.23	550.99	41.55	13.26	78.16
30	5112301081442837	49.62	14.21	553.15	41.73	13.26	78.47
31	5112301081443121	49.47	14.23	550.41	41.57	13.24	78.22
SP112301080518							
1	5112301081443339	49.86	14.25	554.69	41.38	13.40	78.08
2	5112301081443344	49.53	14.25	552.13	41.18	13.41	78.23
3	5112301081443337	49.48	14.22	551.30	41.20	13.38	78.34
4	5112301081443341	49.38	14.23	551.73	41.50	13.29	78.50
5	5112301081443256	49.41	14.24	550.87	41.47	13.28	78.29
6	5112301081443224	49.44	14.23	551.98	41.53	13.29	78.45
7	5112301081443276	49.66	14.15	552.85	41.74	13.25	78.69
8	5112301081443172	49.67	14.15	553.11	41.74	13.25	78.71
9	5112301081442760	49.67	14.15	552.74	41.74	13.24	78.66
10	5112301081442956	49.96	14.18	552.70	41.74	13.24	78.01
11	5112301081442863	49.84	14.16	553.79	41.77	13.26	78.47
12	5112301081442937	49.78	14.16	554.86	42.00	13.21	78.70
13	5112301081442987	49.50	14.31	554.80	41.60	13.34	78.30
14	5112301081443193	49.79	14.20	553.65	41.35	13.39	78.29
15	5112301081443190	49.79	14.20	551.83	41.22	13.39	78.05
16	5112301081442884	49.84	14.17	553.51	41.78	13.25	78.36
17	5112301081442939	49.74	14.18	553.89	41.85	13.24	78.55
18	5112301081442991	49.84	14.19	553.00	41.76	13.24	78.22
19	5112301081442946	49.76	14.18	553.05	41.79	13.24	78.38
20	5112301081442886	49.70	14.18	553.47	41.72	13.27	78.53
21	5112301081442988	49.79	14.16	552.65	41.90	13.19	78.42
22	5112301081442874	49.87	14.16	551.16	41.31	13.34	78.03
23	5112301081442867	49.72	14.18	551.55	41.70	13.23	78.21
24	5112301081443254	49.39	14.24	552.74	41.54	13.31	78.61
25	5112301081442883	49.86	14.20	553.94	41.83	13.24	78.25
26	5112301081443157	49.73	14.22	552.81	41.32	13.38	78.20
27	5112301081443175	49.33	14.25	551.55	41.49	13.29	78.46
28	5112301081443307	49.39	14.24	552.09	41.47	13.31	78.48
29	5112301081443342	49.28	14.22	551.36	41.60	13.25	78.67
30	5112301081443301	49.40	14.23	550.62	41.50	13.27	78.36
31	5112301081443305	49.46	14.23	550.34	41.10	13.39	78.20
SP112301080519							
1	5112301081443303	49.43	14.24	551.74	41.60	13.26	78.40
2	5112301081443196	49.42	14.24	551.64	41.47	13.30	78.38
3	5112301081443228	49.66	14.23	551.50	41.26	13.37	78.03
4	5112301081443195	49.50	14.25	553.22	41.61	13.30	78.44
5	5112301081443300	49.59	14.20	552.61	41.64	13.27	78.49
6	5112301081443291	49.48	14.21	551.22	41.66	13.23	78.38
7	5112301081443286	49.72	14.25	554.74	41.77	13.28	78.30
8	5112301081443343	49.72	14.25	553.73	41.29	13.41	78.14
9	5112301081443231	49.70	14.25	552.89	41.24	13.41	78.05

10	5112301081443226	49.61	14.19	552.73	41.69	13.26	78.52
11	5112301081443298	49.65	14.22	551.37	41.50	13.29	78.08
12	5112301081443299	49.66	14.21	554.03	41.84	13.24	78.51
13	5112301081443227	49.60	14.20	553.65	41.84	13.23	78.59
14	5112301081443289	49.60	14.19	554.18	42.02	13.19	78.75
15	5112301081443333	49.68	14.22	554.14	41.38	13.39	78.42
16	5112301081443200	49.62	14.28	554.37	41.71	13.29	78.26
17	5112301081443304	49.62	14.28	554.09	41.70	13.29	78.23
18	5112301081443230	49.58	14.24	553.39	41.59	13.31	78.40
19	5112301081443146	49.57	14.21	550.47	41.26	13.34	78.13
20	5112301081443283	49.79	14.20	551.58	41.31	13.35	78.05
21	5112301081442996	49.86	14.16	551.42	41.57	13.27	78.11
22	5112301081442875	49.85	14.17	553.70	41.76	13.26	78.38
23	5112301081442872	49.87	14.18	554.58	41.84	13.25	78.43
24	5112301081442928	49.90	14.16	554.02	41.51	13.35	78.42
25	5112301081442997	49.75	14.19	551.74	41.61	13.26	78.16
26	5112301081443199	49.37	14.24	550.34	41.40	13.29	78.28
27	5112301081443316	49.56	14.25	551.63	41.22	13.38	78.14
28	5112301081443162	49.37	14.22	552.02	41.54	13.29	78.62
29	5112301081443328	49.82	14.26	554.52	41.40	13.39	78.07
30	5112301081443296	49.44	14.24	552.99	41.56	13.31	78.53
31	5112301081443181	49.50	14.24	553.44	41.61	13.30	78.49
SP112301080520							
1	5112301081443238	49.55	14.23	552.37	41.25	13.39	78.32
2	5112301081443312	49.38	14.25	550.10	41.48	13.26	78.17
3	5112301081443251	49.44	14.23	552.55	41.66	13.26	78.54
4	5112301081443153	49.46	14.25	553.12	41.64	13.28	78.46
5	5112301081443255	49.46	14.21	550.59	41.47	13.28	78.33
6	5112301081443293	49.76	14.18	552.09	41.30	13.37	78.22
7	5112301081443292	49.44	14.25	552.30	41.56	13.29	78.39
8	5112301081443171	49.84	14.21	552.39	41.25	13.39	78.01
9	5112301081443216	49.56	14.26	552.70	41.52	13.31	78.19
10	5112301081443346	49.71	14.22	553.62	41.67	13.28	78.34
11	5112301081443290	49.60	14.24	553.79	41.66	13.29	78.44
12	5112301081443152	49.61	14.24	554.20	41.41	13.38	78.45
13	5112301081443217	49.46	14.22	552.52	41.72	13.24	78.57
14	5112301081443310	49.44	14.23	551.26	41.44	13.30	78.38
15	5112301081443235	49.62	14.24	554.23	41.40	13.39	78.46
16	5112301081443202	49.48	14.24	550.03	41.46	13.27	78.09
17	5112301081443309	49.55	14.25	551.24	41.48	13.29	78.07
18	5112301081443336	49.54	14.25	551.37	41.48	13.29	78.09
19	5112301081443285	49.63	14.20	551.70	41.24	13.38	78.29
20	5112301081443169	49.64	14.22	553.32	41.72	13.26	78.37
21	5112301081442831	49.96	14.14	552.77	41.48	13.32	78.23
22	5112301081442879	49.97	14.14	552.61	41.47	13.33	78.21
23	5112301081442894	49.97	14.14	552.80	41.49	13.32	78.22
24	5112301081442865	49.97	14.18	554.69	41.89	13.24	78.29
25	5112301081442876	49.78	14.22	553.99	41.79	13.26	78.25
26	5112301081443382	49.54	14.27	553.52	41.22	13.43	78.29

27	5112301081443210	49.83	14.23	554.77	41.39	13.40	78.25
28	5112301081443241	49.40	14.25	553.10	41.59	13.30	78.56
29	5112301081443170	49.47	14.26	551.54	41.46	13.30	78.17
30	5112301081442826	49.46	14.27	551.66	41.46	13.30	78.15
31	5112301081442958	49.48	14.27	551.61	41.46	13.30	78.13
SP112302070101							
1	5112302071440022	50.32	14.27	553.81	42.35	13.08	77.11
2	5112302071440026	50.25	14.20	551.65	42.35	13.02	77.28
3	5112302071440033	50.35	14.20	551.02	42.41	12.99	77.05
4	5112302071440062	50.66	13.89	553.81	42.52	13.03	78.69
5	5112302071440065	50.51	13.82	551.52	41.89	13.17	78.98
6	5112302071440069	50.43	13.92	553.71	42.56	13.01	78.89
7	5112302071440074	50.51	13.86	551.73	41.92	13.16	78.82
8	5112302071440076	50.70	14.01	553.80	42.00	13.19	77.99
9	5112302071440079	50.35	14.17	551.34	42.40	13.00	77.29
10	5112302071440083	50.26	13.98	552.32	42.22	13.08	78.64
11	5112302071440120	50.17	13.99	553.70	42.14	13.14	78.91
12	5112302071440165	50.56	14.07	553.66	42.32	13.08	77.82
13	5112302071440183	50.54	13.85	551.04	42.48	12.97	78.73
14	5112302071440188	50.53	13.85	551.64	41.92	13.16	78.81
15	5112302071440192	50.31	14.13	554.64	41.70	13.30	78.03
16	5112302071440193	50.29	14.20	551.33	42.43	12.99	77.19
17	5112302071440198	50.59	13.89	552.34	42.40	13.03	78.60
18	5112302071440211	50.00	14.06	551.10	42.07	13.10	78.38
19	5112302071440229	50.38	14.27	554.20	42.39	13.07	77.08
20	5112302071440250	50.34	14.27	554.14	42.39	13.07	77.13
21	5112302071440255	50.34	14.02	550.85	42.05	13.10	78.06
22	5112302071440289	50.42	14.20	551.33	41.94	13.15	77.01
23	5112302071440296	50.34	13.95	554.70	42.26	13.13	78.96
24	5112302071440326	49.94	14.34	552.98	42.39	13.04	77.24
25	5112302071440355	49.84	14.08	553.66	42.04	13.17	78.89
26	5112302071440397	50.17	14.01	553.31	42.11	13.14	78.73
27	5112302071440427	50.45	13.97	552.99	42.14	13.12	78.45
28	5112302071440429	50.13	14.02	552.39	42.03	13.14	78.57
29	5112302071440633	49.50	14.40	552.66	41.96	13.17	77.53
30	5112302071440719	50.31	13.91	551.83	42.45	13.00	78.86
31	5112302071440817	49.45	14.40	552.38	41.94	13.17	77.59
SP112302070102							
0.00							
1	5112302071440001	50.18	14.29	552.69	42.34	13.05	77.06
2	5112302071440013	50.26	14.17	550.83	42.52	12.96	77.31
3	5112302071440024	50.30	14.18	551.28	42.55	12.96	77.27
4	5112302071440045	50.19	14.20	551.65	42.58	12.95	77.37
5	5112302071440070	50.11	14.21	551.02	42.38	13.00	77.39
6	5112302071440098	49.95	14.31	554.78	42.38	13.09	77.63
7	5112302071440110	50.18	14.25	554.31	42.58	13.02	77.54
8	5112302071440121	50.27	13.96	552.38	42.23	13.08	78.72
9	5112302071440126	50.01	14.30	553.42	42.52	13.01	77.40
10	5112302071440150	50.16	14.16	551.54	42.57	12.96	77.65
11	5112302071440179	50.16	14.03	553.99	42.16	13.14	78.69
12	5112302071440180	50.20	14.25	551.98	42.48	12.99	77.17
13	5112302071440182	50.27	13.96	552.26	42.22	13.08	78.71
14	5112302071440196	50.13	14.07	552.87	41.79	13.23	78.41
15	5112302071440202	50.18	14.06	552.50	41.79	13.22	78.30

16	5112302071440209	50.27	14.01	551.04	41.90	13.15	78.22
17	5112302071440220	50.19	14.29	553.35	42.42	13.04	77.16
18	5112302071440484	49.83	14.31	551.39	42.09	13.10	77.33
19	5112302071440509	49.70	14.43	552.98	42.00	13.17	77.12
20	5112302071440520	49.96	14.31	554.25	42.47	13.05	77.54
21	5112302071440569	49.77	14.33	553.78	42.17	13.13	77.63
22	5112302071440586	49.80	14.11	550.37	41.66	13.21	78.32
23	5112302071440592	49.94	14.31	554.24	42.48	13.05	77.54
24	5112302071440620	49.54	14.39	552.45	41.95	13.17	77.48
25	5112302071440621	49.96	14.32	551.17	42.15	13.08	77.05
26	5112302071440688	49.51	14.42	551.47	41.87	13.17	77.23
27	5112302071440722	49.80	14.09	550.67	41.73	13.20	78.46
28	5112302071440777	49.52	14.27	552.05	42.27	13.06	78.12
29	5112302071440779	49.72	14.11	553.12	41.90	13.20	78.83
30	5112302071440781	49.97	14.35	552.95	42.05	13.15	77.12
31	5112302071440828	49.91	14.32	551.22	42.16	13.07	77.12
SP112302070103							
1	5112302071440012	50.51	14.21	553.87	41.95	13.20	77.14
2	5112302071440014	49.80	14.06	553.30	41.88	13.21	79.00
3	5112302071440021	50.01	14.30	553.67	42.51	13.02	77.43
4	5112302071440036	50.45	14.18	551.54	42.37	13.02	77.13
5	5112302071440038	50.02	14.20	550.94	42.40	13.00	77.54
6	5112302071440053	50.08	13.99	553.37	42.09	13.15	78.96
7	5112302071440067	49.96	14.33	554.09	42.40	13.07	77.38
8	5112302071440096	49.72	14.43	553.50	41.89	13.21	77.12
9	5112302071440115	50.74	13.79	551.65	42.29	13.05	78.82
10	5112302071440135	50.58	13.92	554.19	41.94	13.21	78.69
11	5112302071440141	50.52	14.25	554.66	42.37	13.09	77.03
12	5112302071440145	50.05	14.01	553.68	42.26	13.10	78.99
13	5112302071440224	50.64	13.93	554.63	41.98	13.21	78.63
14	5112302071440251	50.66	13.90	550.91	42.32	13.02	78.21
15	5112302071440256	50.08	14.23	553.93	41.97	13.20	77.71
16	5112302071440267	50.28	14.24	553.92	42.10	13.16	77.39
17	5112302071440273	50.17	14.20	553.75	42.20	13.12	77.69
18	5112302071440393	49.94	14.15	553.41	41.83	13.23	78.32
19	5112302071440410	50.13	13.97	552.72	42.14	13.12	78.90
20	5112302071440422	49.85	14.23	551.12	42.32	13.02	77.68
21	5112302071440477	49.68	14.35	552.53	41.88	13.19	77.51
22	5112302071440504	49.56	14.09	550.70	41.96	13.12	78.88
23	5112302071440594	49.72	14.37	552.81	42.24	13.09	77.38
24	5112302071440601	49.68	14.34	554.16	42.43	13.06	77.80
25	5112302071440638	49.91	14.15	553.25	41.82	13.23	78.34
26	5112302071440642	49.57	14.41	551.65	41.98	13.14	77.22
27	5112302071440749	49.80	14.36	553.20	42.17	13.12	77.34
28	5112302071440783	50.01	14.33	553.91	42.38	13.07	77.27
29	5112302071440785	49.86	14.15	553.26	41.81	13.23	78.40
30	5112302071440827	49.83	14.37	551.77	42.12	13.10	77.08
31	5112302071440831	49.79	14.35	554.50	42.35	13.09	77.62
SP112302070104							
1	5112302071440017	49.92	14.25	551.31	42.18	13.07	77.52
2	5112302071440028	49.99	14.31	551.92	42.23	13.07	77.13
3	5112302071440040	49.84	14.36	553.33	42.21	13.11	77.30
4	5112302071440051	49.99	14.27	554.35	42.29	13.11	77.73
5	5112302071440052	50.04	14.39	554.76	42.02	13.20	77.06

6	5112302071440055	49.90	14.23	550.94	42.55	12.95	77.57
7	5112302071440078	49.88	14.31	551.95	42.09	13.11	77.34
8	5112302071440082	50.00	14.33	553.30	42.24	13.10	77.24
9	5112302071440084	50.28	13.96	551.06	42.14	13.08	78.49
10	5112302071440085	49.51	14.42	552.78	41.99	13.16	77.42
11	5112302071440093	49.73	14.04	551.29	41.79	13.19	78.98
12	5112302071440095	50.08	14.33	553.07	42.21	13.10	77.04
13	5112302071440149	49.44	14.40	553.91	42.15	13.14	77.80
14	5112302071440164	50.08	14.31	552.44	42.19	13.10	77.09
15	5112302071440170	50.43	13.89	551.28	42.36	13.01	78.67
16	5112302071440171	49.97	14.18	551.19	41.98	13.13	77.79
17	5112302071440173	49.91	14.35	552.70	42.45	13.02	77.16
18	5112302071440186	49.85	14.30	553.26	42.21	13.11	77.61
19	5112302071440195	50.32	14.27	553.17	42.50	13.02	77.05
20	5112302071440199	50.00	14.26	552.79	41.90	13.19	77.52
21	5112302071440205	49.77	14.18	551.34	42.30	13.03	78.10
22	5112302071440213	50.07	14.31	552.55	42.20	13.09	77.11
23	5112302071440222	49.77	14.31	553.77	42.22	13.12	77.76
24	5112302071440225	50.11	14.30	554.41	41.98	13.21	77.35
25	5112302071440244	50.22	14.26	554.41	42.02	13.19	77.39
26	5112302071440249	50.16	14.16	551.51	42.11	13.10	77.63
27	5112302071440264	50.09	14.06	554.45	42.13	13.16	78.72
28	5112302071440275	49.93	14.26	551.63	42.48	12.99	77.50
29	5112302071440460	49.37	14.18	551.33	41.50	13.29	78.76
30	5112302071440639	49.92	14.05	551.93	41.80	13.21	78.68
31	5112302071440676	49.77	14.15	551.97	41.77	13.21	78.37
SP112302070105							
1	5112302071440031	50.05	14.01	553.81	42.12	13.15	78.99
2	5112302071440041	50.10	14.26	554.66	42.08	13.18	77.61
3	5112302071440050	50.38	14.01	551.57	42.09	13.11	78.12
4	5112302071440071	50.10	14.08	554.51	42.15	13.15	78.61
5	5112302071440072	49.91	14.05	550.20	41.92	13.13	78.46
6	5112302071440090	50.38	13.96	551.61	42.24	13.06	78.45
7	5112302071440091	50.36	13.98	554.18	42.27	13.11	78.69
8	5112302071440104	50.43	13.97	551.93	42.16	13.09	78.36
9	5112302071440105	50.17	14.07	554.45	42.19	13.14	78.52
10	5112302071440109	50.44	13.92	554.44	42.50	13.05	78.97
11	5112302071440111	49.87	14.04	550.66	41.97	13.12	78.65
12	5112302071440134	50.13	14.13	551.73	41.71	13.23	77.91
13	5112302071440138	50.15	13.98	550.97	42.28	13.03	78.59
14	5112302071440148	50.26	13.88	551.21	42.35	13.02	79.00
15	5112302071440167	49.87	14.04	551.64	42.04	13.12	78.81
16	5112302071440169	50.21	14.04	554.43	42.17	13.15	78.65
17	5112302071440177	50.74	14.03	553.24	42.18	13.12	77.72
18	5112302071440178	50.51	13.87	551.68	42.54	12.97	78.73
19	5112302071440185	49.97	14.01	552.38	42.07	13.13	78.91
20	5112302071440217	49.86	14.04	550.98	42.02	13.11	78.73
21	5112302071440221	49.86	14.04	551.23	42.00	13.12	78.74
22	5112302071440226	49.97	14.01	552.16	42.09	13.12	78.86
23	5112302071440230	50.21	14.21	551.21	42.52	12.96	77.27
24	5112302071440232	49.99	14.05	552.35	42.37	13.04	78.63
25	5112302071440241	49.98	14.00	552.39	42.13	13.11	78.94
26	5112302071440259	49.52	14.39	552.68	42.06	13.14	77.56
27	5112302071440260	50.05	14.26	551.52	42.31	13.04	77.27

28	5112302071440271	50.00	14.31	552.53	42.16	13.11	77.24
29	5112302071440278	49.86	14.04	551.43	42.02	13.12	78.78
30	5112302071440279	50.35	14.20	553.08	42.34	13.06	77.36
31	5112302071440285	50.22	14.03	550.59	42.00	13.11	78.13
SP112302070106							
1	5112302071440023	50.41	14.18	550.97	42.55	12.95	77.06
2	5112302071440035	50.08	14.05	552.07	41.99	13.15	78.47
3	5112302071440058	50.37	13.99	554.25	42.51	13.04	78.63
4	5112302071440059	50.02	14.33	553.61	42.46	13.04	77.22
5	5112302071440063	50.30	13.96	553.92	42.00	13.19	78.88
6	5112302071440075	50.13	14.07	553.65	42.26	13.10	78.50
7	5112302071440092	50.05	13.99	552.57	42.21	13.09	78.92
8	5112302071440094	49.92	14.10	553.07	41.96	13.18	78.56
9	5112302071440102	50.14	14.07	552.07	41.91	13.17	78.24
10	5112302071440136	50.22	14.01	552.41	42.23	13.08	78.51
11	5112302071440137	50.25	14.22	551.10	42.39	13.00	77.13
12	5112302071440155	49.83	14.39	552.92	42.00	13.16	77.10
13	5112302071440156	50.38	14.00	554.23	42.23	13.12	78.56
14	5112302071440160	49.87	14.07	550.63	42.09	13.08	78.48
15	5112302071440172	50.15	14.32	553.75	42.24	13.11	77.10
16	5112302071440210	50.15	13.98	552.74	42.50	13.01	78.86
17	5112302071440236	50.15	14.03	554.44	42.34	13.09	78.79
18	5112302071440237	50.02	14.08	553.70	42.27	13.10	78.63
19	5112302071440254	50.09	14.07	553.50	41.92	13.20	78.52
20	5112302071440257	50.01	13.97	551.62	42.15	13.09	78.93
21	5112302071440258	50.34	13.94	553.16	42.56	13.00	78.85
22	5112302071440261	49.99	14.32	552.29	42.23	13.08	77.15
23	5112302071440263	50.14	14.07	551.97	42.20	13.08	78.28
24	5112302071440266	50.00	13.99	551.21	41.98	13.13	78.82
25	5112302071440272	50.08	14.34	553.92	42.14	13.14	77.14
26	5112302071440287	50.38	13.94	553.55	42.37	13.07	78.83
27	5112302071440288	50.10	14.03	554.61	42.11	13.17	78.92
28	5112302071440299	49.87	14.12	552.75	41.84	13.21	78.50
29	5112302071440304	50.00	14.01	552.00	42.24	13.07	78.79
30	5112302071440398	50.09	14.23	551.24	42.48	12.98	77.35
31	5112302071440469	49.86	14.13	550.08	41.59	13.23	78.08
SP112302070107							
1	5112302071440002	50.10	14.12	552.39	41.84	13.20	78.10
2	5112302071440011	49.86	14.30	551.49	42.17	13.08	77.32
3	5112302071440016	50.17	14.21	551.99	42.59	12.96	77.43
4	5112302071440030	50.04	14.03	554.11	42.18	13.14	78.90
5	5112302071440101	50.63	14.03	550.96	42.19	13.06	77.58
6	5112302071440103	50.24	14.22	551.55	42.40	13.01	77.19
7	5112302071440112	50.08	13.98	552.24	42.28	13.06	78.90
8	5112302071440113	49.97	14.34	552.88	42.19	13.10	77.17
9	5112302071440114	50.30	13.89	551.70	42.42	13.01	78.94
10	5112302071440116	49.92	14.04	551.25	41.96	13.14	78.67
11	5112302071440130	50.16	14.01	552.48	42.16	13.10	78.62
12	5112302071440133	50.15	14.14	551.75	42.43	13.00	77.81
13	5112302071440142	49.80	14.35	551.92	42.22	13.07	77.24
14	5112302071440154	50.30	14.07	551.15	41.74	13.20	77.86
15	5112302071440157	50.15	13.95	551.02	42.26	13.04	78.78
16	5112302071440176	49.99	14.34	554.35	42.39	13.08	77.36
17	5112302071440233	49.98	14.20	551.58	42.56	12.96	77.73

18	5112302071440234	50.21	14.00	552.45	42.08	13.13	78.57
19	5112302071440240	50.31	13.88	551.33	42.40	13.00	78.96
20	5112302071440252	49.92	14.30	552.64	42.27	13.07	77.44
21	5112302071440269	50.41	14.04	551.97	42.11	13.11	77.97
22	5112302071440270	50.04	14.30	553.91	42.38	13.07	77.38
23	5112302071440276	49.97	14.30	552.66	42.34	13.05	77.32
24	5112302071440280	50.20	14.24	551.22	42.39	13.00	77.09
25	5112302071440282	49.89	14.05	552.87	42.06	13.15	78.85
26	5112302071440295	50.09	14.24	551.62	41.96	13.15	77.36
27	5112302071440297	49.89	14.03	550.15	41.93	13.12	78.62
28	5112302071440298	50.63	13.84	551.46	41.90	13.16	78.69
29	5112302071440384	50.20	13.95	552.78	42.16	13.11	78.93
30	5112302071440385	50.02	14.31	553.37	42.28	13.09	77.34
31	5112302071440400	50.00	14.24	551.65	42.37	13.02	77.50
SP112302070108							
1	5112302071440081	50.12	14.05	554.41	42.51	13.04	78.70
2	5112302071440123	49.74	14.28	552.20	41.30	13.37	77.74
3	5112302071440158	50.03	14.17	551.43	41.87	13.17	77.78
4	5112302071440187	49.84	14.16	553.02	41.62	13.29	78.37
5	5112302071440189	50.01	14.03	551.58	41.92	13.16	78.61
6	5112302071440207	49.75	14.04	551.63	42.07	13.11	78.98
7	5112302071440253	49.67	14.14	551.95	41.72	13.23	78.58
8	5112302071440292	49.96	14.04	551.69	41.85	13.18	78.67
9	5112302071440309	49.61	14.48	553.28	41.82	13.23	77.01
10	5112302071440311	49.76	14.11	553.34	41.76	13.25	78.80
11	5112302071440317	49.85	14.13	552.78	42.21	13.10	78.47
12	5112302071440319	49.61	14.30	551.62	41.15	13.41	77.74
13	5112302071440347	49.90	14.23	553.22	41.62	13.29	77.90
14	5112302071440348	49.43	14.17	550.90	41.49	13.28	78.68
15	5112302071440349	49.47	14.19	550.66	41.32	13.33	78.43
16	5112302071440353	49.73	14.12	551.41	41.83	13.18	78.56
17	5112302071440360	50.08	13.96	551.87	42.04	13.13	78.95
18	5112302071440378	49.91	14.04	553.13	42.00	13.17	78.96
19	5112302071440386	49.63	14.15	550.94	41.67	13.22	78.43
20	5112302071440416	49.70	14.11	552.78	41.86	13.20	78.80
21	5112302071440417	49.36	14.17	552.27	41.62	13.27	78.95
22	5112302071440418	49.69	14.22	553.34	41.49	13.34	78.29
23	5112302071440424	49.99	14.25	553.94	41.46	13.36	77.78
24	5112302071440425	49.75	14.19	550.39	41.35	13.31	77.98
25	5112302071440435	49.71	14.26	550.04	41.42	13.28	77.58
26	5112302071440437	50.13	14.10	552.82	41.95	13.18	78.18
27	5112302071440471	49.85	14.04	552.08	41.93	13.17	78.86
28	5112302071440475	49.99	14.12	552.21	41.87	13.19	78.26
29	5112302071440486	49.62	14.30	551.80	41.17	13.40	77.75
30	5112302071440541	49.88	14.16	551.99	41.53	13.29	78.18
31	5112302071440548	49.70	14.10	551.30	41.96	13.14	78.67
SP112302070109							
1	5112302071440106	49.99	14.10	551.52	41.76	13.21	78.26
2	5112302071440197	49.80	14.12	551.14	41.82	13.18	78.40
3	5112302071440200	49.74	14.12	550.46	41.89	13.14	78.40
4	5112302071440216	49.61	14.11	550.12	41.71	13.19	78.61
5	5112302071440277	49.79	14.11	552.89	41.94	13.18	78.69
6	5112302071440294	49.77	14.18	551.52	41.51	13.29	78.15
7	5112302071440321	49.61	14.21	554.55	41.58	13.34	78.64

8	5112302071440322	49.75	14.12	551.47	41.76	13.21	78.52
9	5112302071440327	49.50	14.23	553.14	41.99	13.17	78.55
10	5112302071440354	49.53	14.12	551.39	41.61	13.25	78.84
11	5112302071440368	49.94	14.08	552.57	41.95	13.17	78.59
12	5112302071440375	49.80	14.20	554.08	41.89	13.23	78.37
13	5112302071440381	49.54	14.19	550.88	41.48	13.28	78.37
14	5112302071440414	49.80	14.27	554.59	41.57	13.34	78.04
15	5112302071440415	49.59	14.09	551.27	41.73	13.21	78.89
16	5112302071440419	49.76	14.27	550.18	41.49	13.26	77.50
17	5112302071440430	49.76	14.10	551.26	41.67	13.23	78.58
18	5112302071440438	49.46	14.19	553.11	41.55	13.31	78.84
19	5112302071440439	49.56	14.37	552.12	41.20	13.40	77.55
20	5112302071440449	49.98	14.11	552.22	42.10	13.12	78.32
21	5112302071440467	49.77	14.10	550.95	41.65	13.23	78.50
22	5112302071440470	49.82	14.32	553.05	41.12	13.45	77.50
23	5112302071440482	49.63	14.32	551.91	41.17	13.40	77.65
24	5112302071440483	49.71	14.18	553.79	41.73	13.27	78.59
25	5112302071440485	49.45	14.19	552.71	41.53	13.31	78.79
26	5112302071440488	49.45	14.25	552.12	41.58	13.28	78.35
27	5112302071440527	49.86	14.12	551.08	41.66	13.23	78.29
28	5112302071440532	49.68	14.21	554.33	41.89	13.23	78.53
29	5112302071440539	49.31	14.27	552.70	41.28	13.39	78.56
30	5112302071440544	49.73	14.11	551.24	41.74	13.21	78.58
31	5112302071440547	49.58	14.10	551.51	41.73	13.22	78.91
SP112302070110							
1	5112302071440144	49.83	14.12	553.00	41.73	13.25	78.59
2	5112302071440283	49.56	14.46	552.60	41.87	13.20	77.13
3	5112302071440316	49.46	14.50	552.83	41.76	13.24	77.07
4	5112302071440329	49.24	14.52	552.39	41.72	13.24	77.28
5	5112302071440334	49.45	14.16	552.67	41.56	13.30	78.94
6	5112302071440338	49.73	14.39	554.02	42.10	13.16	77.45
7	5112302071440340	49.46	14.13	551.19	41.69	13.22	78.87
8	5112302071440358	49.23	14.48	550.91	41.51	13.27	77.30
9	5112302071440359	49.90	14.37	553.26	42.21	13.11	77.18
10	5112302071440391	49.41	14.42	551.65	41.84	13.18	77.40
11	5112302071440403	49.46	14.16	550.89	41.54	13.26	78.67
12	5112302071440404	49.59	14.40	551.72	41.76	13.21	77.25
13	5112302071440432	49.86	14.06	551.76	41.81	13.20	78.72
14	5112302071440434	49.49	14.15	552.11	41.82	13.20	78.86
15	5112302071440444	49.80	14.38	551.72	41.99	13.14	77.06
16	5112302071440445	49.71	14.29	551.21	42.11	13.09	77.59
17	5112302071440446	49.49	14.18	552.45	41.57	13.29	78.74
18	5112302071440451	49.48	14.40	551.89	42.10	13.11	77.43
19	5112302071440490	49.82	14.38	551.80	42.15	13.09	77.05
20	5112302071440493	49.10	14.51	551.68	41.51	13.29	77.41
21	5112302071440494	49.56	14.17	554.33	41.67	13.30	78.94
22	5112302071440497	49.61	14.45	553.26	41.90	13.21	77.18
23	5112302071440499	49.70	14.27	551.50	42.24	13.06	77.76
24	5112302071440500	49.50	14.50	553.82	41.75	13.27	77.14
25	5112302071440536	49.59	14.40	554.61	41.88	13.24	77.68
26	5112302071440542	49.58	14.41	553.89	42.06	13.17	77.55
27	5112302071440553	49.37	14.45	550.28	41.86	13.14	77.12
28	5112302071440595	49.47	14.14	550.69	41.60	13.24	78.75
29	5112302071440600	49.48	14.51	553.77	41.75	13.26	77.13

30	5112302071440602	49.61	14.51	554.56	41.72	13.29	77.06
31	5112302071440684	49.41	14.47	551.28	41.65	13.24	77.11
SP112302070111							
1	5112302071440313	49.74	14.40	551.38	41.80	13.19	77.01
2	5112302071440325	49.83	14.15	554.76	42.03	13.20	78.68
3	5112302071440344	49.67	14.13	552.74	41.68	13.26	78.75
4	5112302071440440	49.84	14.08	553.67	41.81	13.24	78.89
5	5112302071440457	49.60	14.46	553.23	41.86	13.22	77.11
6	5112302071440458	49.84	14.17	552.28	41.69	13.25	78.22
7	5112302071440502	49.76	14.11	552.57	41.95	13.17	78.71
8	5112302071440503	49.45	14.15	550.10	41.75	13.18	78.62
9	5112302071440535	49.87	14.42	553.77	42.13	13.14	77.01
10	5112302071440559	49.77	14.07	551.12	41.86	13.17	78.69
11	5112302071440589	49.60	14.42	550.92	41.78	13.19	77.02
12	5112302071440590	49.76	14.15	553.08	41.68	13.27	78.54
13	5112302071440591	49.85	14.16	554.68	42.09	13.18	78.60
14	5112302071440596	49.66	14.42	552.12	41.92	13.17	77.11
15	5112302071440603	49.68	14.44	553.85	41.97	13.20	77.22
16	5112302071440605	49.65	14.41	553.14	41.92	13.20	77.33
17	5112302071440606	49.59	14.45	553.63	41.84	13.23	77.27
18	5112302071440607	49.95	14.28	550.94	42.30	13.02	77.22
19	5112302071440615	49.89	14.05	550.81	41.90	13.15	78.58
20	5112302071440643	49.75	14.09	552.63	41.72	13.25	78.84
21	5112302071440645	49.68	14.13	553.54	41.71	13.27	78.87
22	5112302071440649	49.82	14.04	552.30	41.85	13.20	78.95
23	5112302071440650	49.82	14.08	553.94	42.14	13.15	78.99
24	5112302071440656	49.78	14.06	551.95	41.93	13.16	78.84
25	5112302071440680	49.59	14.14	552.99	41.86	13.21	78.88
26	5112302071440681	49.89	14.16	552.81	41.73	13.25	78.22
27	5112302071440682	49.74	14.17	554.24	41.90	13.23	78.65
28	5112302071440685	49.86	14.13	553.05	41.90	13.20	78.52
29	5112302071440689	49.68	14.15	553.12	41.92	13.19	78.68
30	5112302071440691	49.62	14.12	551.56	41.66	13.24	78.71
31	5112302071440695	49.74	14.12	553.97	41.93	13.21	78.88
SP112302070112							
1	5112302071440508	49.88	14.17	552.72	41.90	13.19	78.21
2	5112302071440515	49.97	14.14	552.75	42.03	13.15	78.22
3	5112302071440537	49.91	14.10	551.16	41.61	13.25	78.32
4	5112302071440554	49.76	14.04	551.03	41.98	13.13	78.88
5	5112302071440557	49.82	14.15	551.70	41.85	13.18	78.25
6	5112302071440558	49.82	14.04	550.95	41.97	13.13	78.78
7	5112302071440561	49.77	14.47	554.72	41.89	13.24	77.04
8	5112302071440587	49.83	14.32	551.23	41.92	13.15	77.25
9	5112302071440588	49.96	14.05	554.53	42.02	13.20	78.99
10	5112302071440609	49.74	14.41	552.43	41.84	13.20	77.06
11	5112302071440613	49.65	14.43	552.74	41.92	13.19	77.13
12	5112302071440622	49.93	14.31	550.82	42.03	13.10	77.10
13	5112302071440623	49.84	14.40	552.84	41.89	13.20	77.00
14	5112302071440631	49.84	14.03	551.38	41.84	13.18	78.88
15	5112302071440646	49.83	14.08	553.48	41.85	13.23	78.87
16	5112302071440647	49.85	14.43	554.78	42.02	13.20	77.11
17	5112302071440653	49.73	14.38	550.87	41.96	13.13	77.03
18	5112302071440655	49.87	14.09	552.52	41.87	13.20	78.65
19	5112302071440657	49.88	14.03	552.08	41.97	13.15	78.90

20	5112302071440660	49.73	14.40	551.91	42.08	13.12	77.08
21	5112302071440662	49.89	14.16	552.68	41.72	13.25	78.23
22	5112302071440670	49.77	14.17	550.03	41.31	13.31	78.00
23	5112302071440675	49.72	14.46	554.65	42.04	13.19	77.14
24	5112302071440677	49.92	14.32	551.46	42.04	13.12	77.15
25	5112302071440679	49.84	14.40	553.63	41.96	13.19	77.17
26	5112302071440690	49.77	14.09	553.35	42.00	13.18	78.92
27	5112302071440701	49.92	14.15	553.75	41.70	13.28	78.40
28	5112302071440708	49.83	14.02	551.56	42.06	13.11	78.95
29	5112302071440709	49.83	14.02	550.99	41.92	13.14	78.89
30	5112302071440710	49.98	14.29	551.57	42.11	13.10	77.21
31	5112302071440721	49.78	14.16	552.11	41.82	13.20	78.30
SP112302070113							
1	5112302071440361	49.59	14.07	551.13	41.63	13.24	78.99
2	5112302071440364	49.84	14.08	553.44	42.01	13.17	78.89
3	5112302071440407	49.34	14.16	550.86	41.47	13.28	78.84
4	5112302071440453	49.39	14.19	551.64	41.38	13.33	78.74
5	5112302071440555	49.62	14.19	550.47	41.39	13.30	78.17
6	5112302071440566	49.60	14.10	552.10	41.78	13.21	78.96
7	5112302071440570	49.64	14.20	553.93	41.65	13.30	78.60
8	5112302071440593	49.44	14.18	550.03	41.47	13.26	78.47
9	5112302071440614	49.54	14.20	550.21	41.29	13.33	78.19
10	5112302071440616	49.96	14.40	554.01	42.02	13.18	77.01
11	5112302071440618	49.95	13.99	551.52	42.05	13.12	78.94
12	5112302071440624	49.60	14.44	551.99	41.70	13.24	77.08
13	5112302071440625	49.57	14.12	550.67	41.50	13.27	78.68
14	5112302071440635	49.62	14.17	550.13	41.21	13.35	78.23
15	5112302071440661	49.95	13.99	551.38	42.03	13.12	78.92
16	5112302071440665	49.84	14.09	554.49	42.10	13.17	78.97
17	5112302071440667	49.66	14.42	553.06	42.01	13.16	77.22
18	5112302071440674	49.54	14.19	554.44	41.63	13.32	78.86
19	5112302071440678	49.56	14.43	550.89	41.72	13.20	77.03
20	5112302071440702	49.52	14.10	551.01	41.85	13.17	78.93
21	5112302071440705	49.63	14.16	553.03	41.68	13.27	78.70
22	5112302071440706	49.67	14.18	550.64	41.46	13.28	78.20
23	5112302071440715	49.56	14.46	552.49	41.68	13.26	77.10
24	5112302071440717	49.41	14.14	550.91	41.61	13.24	78.83
25	5112302071440726	49.50	14.52	554.03	41.65	13.30	77.06
26	5112302071440729	49.53	14.17	553.04	41.52	13.32	78.78
27	5112302071440802	49.74	14.10	551.71	41.83	13.19	78.66
28	5112302071440803	49.62	14.18	552.42	41.45	13.33	78.51
29	5112302071440804	49.60	14.17	553.82	41.54	13.33	78.79
30	5112302071440820	50.10	14.02	554.70	42.15	13.16	78.95
31	5112302071440821	50.08	14.28	550.92	42.17	13.06	77.02
SP112302070114							
1	5112302071440006	49.97	14.35	553.35	42.27	13.09	77.19
2	5112302071440100	50.25	14.08	554.79	42.25	13.13	78.44
3	5112302071440108	50.39	13.93	552.68	42.17	13.11	78.74
4	5112302071440122	50.19	13.93	552.12	42.21	13.08	78.96
5	5112302071440139	50.06	14.03	551.24	41.91	13.15	78.46
6	5112302071440151	50.56	13.99	553.00	42.51	13.01	78.20
7	5112302071440228	50.32	13.97	551.37	42.30	13.04	78.44
8	5112302071440242	50.12	13.96	550.88	42.19	13.06	78.74
9	5112302071440247	50.21	14.06	553.18	41.97	13.18	78.36

10	5112302071440265	50.30	13.98	554.64	42.42	13.07	78.85
11	5112302071440284	50.11	14.10	552.54	41.92	13.18	78.20
12	5112302071440307	50.27	13.90	551.28	42.11	13.09	78.90
13	5112302071440318	49.95	14.05	553.99	42.03	13.18	78.92
14	5112302071440323	50.23	14.32	554.11	42.17	13.14	77.04
15	5112302071440328	49.77	14.43	554.00	41.91	13.22	77.16
16	5112302071440335	50.46	13.89	551.89	42.38	13.02	78.73
17	5112302071440409	50.23	14.00	553.22	42.15	13.12	78.65
18	5112302071440412	49.64	14.13	552.36	41.68	13.25	78.75
19	5112302071440413	49.86	14.08	554.01	41.81	13.25	78.95
20	5112302071440433	50.09	14.10	554.58	42.08	13.18	78.51
21	5112302071440466	50.33	13.98	554.57	42.17	13.15	78.82
22	5112302071440468	49.66	14.33	550.28	41.95	13.12	77.31
23	5112302071440480	50.36	13.88	551.44	42.33	13.03	78.92
24	5112302071440487	50.10	14.29	551.74	42.17	13.08	77.07
25	5112302071440529	50.15	13.95	552.27	42.11	13.12	78.93
26	5112302071440545	49.69	14.45	552.99	41.94	13.18	77.01
27	5112302071440563	49.71	14.11	552.27	41.82	13.21	78.75
28	5112302071440576	49.84	14.07	551.26	41.81	13.19	78.64
29	5112302071440629	49.69	14.15	554.13	41.79	13.26	78.81
30	5112302071440634	49.76	14.15	554.13	41.72	13.28	78.71
31	5112302071440704	49.79	14.42	554.30	42.03	13.19	77.20
SP112302070115							
1	5112302071440034	50.01	14.04	552.07	41.98	13.15	78.61
2	5112302071440054	50.03	14.07	551.34	42.09	13.10	78.32
3	5112302071440064	49.81	14.03	551.75	42.00	13.14	78.95
4	5112302071440066	49.95	14.34	552.09	42.16	13.10	77.08
5	5112302071440080	50.19	14.04	552.89	41.99	13.17	78.48
6	5112302071440088	50.27	13.98	553.33	42.33	13.07	78.74
7	5112302071440143	50.20	14.01	553.01	42.19	13.11	78.61
8	5112302071440146	50.04	14.05	552.28	41.99	13.15	78.58
9	5112302071440174	50.03	14.05	552.35	42.00	13.15	78.60
10	5112302071440301	50.28	14.31	554.70	42.45	13.07	77.13
11	5112302071440303	50.19	14.03	553.40	42.07	13.16	78.57
12	5112302071440320	49.88	14.41	554.75	42.13	13.17	77.16
13	5112302071440371	49.91	14.07	554.35	41.97	13.21	78.92
14	5112302071440399	49.86	14.06	552.81	41.94	13.18	78.88
15	5112302071440408	50.08	14.05	551.79	41.88	13.18	78.40
16	5112302071440420	49.80	14.09	551.94	41.88	13.18	78.63
17	5112302071440421	50.32	13.92	553.07	42.36	13.06	78.94
18	5112302071440431	50.22	13.96	552.44	42.17	13.10	78.79
19	5112302071440463	49.90	14.06	553.80	41.82	13.24	78.95
20	5112302071440474	50.21	13.96	552.12	42.25	13.07	78.77
21	5112302071440498	50.16	14.34	554.16	42.38	13.08	77.05
22	5112302071440505	50.30	13.98	553.54	42.24	13.11	78.74
23	5112302071440524	50.10	14.03	550.21	41.68	13.20	78.28
24	5112302071440528	50.22	14.23	551.82	42.44	13.00	77.22
25	5112302071440534	49.90	14.31	551.47	42.20	13.07	77.26
26	5112302071440580	50.08	13.97	551.55	41.92	13.16	78.84
27	5112302071440583	50.02	14.31	553.21	42.21	13.11	77.28
28	5112302071440598	50.14	14.00	553.09	42.21	13.10	78.82
29	5112302071440610	50.09	13.96	551.79	41.99	13.14	78.91
30	5112302071440630	50.11	14.33	554.46	42.25	13.12	77.21
31	5112302071440651	50.08	13.99	552.94	42.18	13.11	78.91

SP112302070116							
1	5112302071440003	50.17	13.97	550.82	41.86	13.16	78.57
2	5112302071440004	49.87	14.05	551.14	42.07	13.10	78.63
3	5112302071440005	49.89	14.05	551.46	42.08	13.11	78.69
4	5112302071440008	49.73	14.39	552.00	41.98	13.15	77.14
5	5112302071440152	50.33	14.03	551.43	41.94	13.15	78.11
6	5112302071440274	50.13	14.05	554.66	42.24	13.13	78.78
7	5112302071440286	49.58	14.22	551.31	41.38	13.32	78.18
8	5112302071440306	49.91	14.00	551.61	41.92	13.16	78.91
9	5112302071440308	50.02	14.01	553.37	42.04	13.16	78.96
10	5112302071440342	49.96	14.08	552.47	41.86	13.20	78.56
11	5112302071440345	49.94	14.07	554.44	41.99	13.20	78.90
12	5112302071440352	49.93	14.06	553.86	41.96	13.20	78.91
13	5112302071440363	49.58	14.41	550.90	41.81	13.18	77.13
14	5112302071440370	50.20	14.34	554.79	42.31	13.11	77.09
15	5112302071440394	49.89	14.09	551.80	41.84	13.19	78.47
16	5112302071440395	50.14	13.95	551.51	42.03	13.12	78.85
17	5112302071440428	49.87	14.05	551.56	42.09	13.11	78.73
18	5112302071440479	49.91	14.33	553.15	42.10	13.14	77.36
19	5112302071440492	49.92	14.09	551.56	41.86	13.18	78.39
20	5112302071440530	50.15	14.00	551.18	41.91	13.15	78.49
21	5112302071440578	50.04	14.35	553.24	42.08	13.15	77.06
22	5112302071440597	49.92	14.10	554.50	41.87	13.24	78.78
23	5112302071440636	50.07	14.26	551.75	42.19	13.08	77.30
24	5112302071440683	50.05	14.04	551.98	41.91	13.17	78.54
25	5112302071440693	49.98	14.00	551.67	42.07	13.11	78.82
26	5112302071440700	49.74	14.08	551.80	41.80	13.20	78.77
27	5112302071440703	49.53	14.48	553.91	41.67	13.29	77.24
28	5112302071440712	49.93	14.00	551.01	41.91	13.15	78.85
29	5112302071440723	50.14	14.29	551.80	42.22	13.07	77.02
30	5112302071440746	49.56	14.48	554.61	41.72	13.29	77.28
31	5112302071440815	50.06	14.00	553.50	42.12	13.14	78.96
SP112302070117							
1	5112302071440203	49.94	14.06	552.95	41.89	13.20	78.74
2	5112302071440337	50.13	14.06	554.35	41.94	13.22	78.66
3	5112302071440343	49.82	14.06	551.09	41.81	13.18	78.69
4	5112302071440362	49.83	14.34	552.79	42.14	13.12	77.37
5	5112302071440374	50.22	13.97	553.24	42.35	13.06	78.86
6	5112302071440531	49.95	14.34	551.98	42.02	13.14	77.03
7	5112302071440552	49.71	14.14	551.88	41.89	13.17	78.53
8	5112302071440560	50.01	14.30	551.48	42.06	13.11	77.13
9	5112302071440562	50.19	14.03	552.06	42.06	13.13	78.43
10	5112302071440612	49.77	14.15	553.33	41.86	13.22	78.55
11	5112302071440619	49.99	14.30	550.81	42.20	13.05	77.06
12	5112302071440632	50.07	14.12	552.62	41.82	13.22	78.16
13	5112302071440640	50.03	14.03	553.79	42.05	13.17	78.91
14	5112302071440641	49.95	14.31	550.88	42.04	13.10	77.08
15	5112302071440644	50.48	13.87	551.12	42.56	12.95	78.73
16	5112302071440648	50.13	14.10	553.52	41.80	13.24	78.31
17	5112302071440654	50.04	14.30	551.63	42.18	13.08	77.10
18	5112302071440658	49.78	14.06	552.79	41.76	13.24	78.97
19	5112302071440663	50.11	14.00	553.03	42.07	13.15	78.80
20	5112302071440664	50.16	13.95	551.93	42.15	13.09	78.89
21	5112302071440666	50.15	14.03	553.44	42.12	13.14	78.64

22	5112302071440668	50.06	14.38	554.64	42.14	13.16	77.04
23	5112302071440692	49.81	14.16	553.68	41.81	13.24	78.51
24	5112302071440697	50.13	14.02	552.90	42.13	13.12	78.69
25	5112302071440711	50.25	13.96	551.85	42.22	13.07	78.67
26	5112302071440716	50.19	14.03	552.03	42.06	13.12	78.39
27	5112302071440720	50.11	14.10	553.95	41.86	13.23	78.39
28	5112302071440724	49.99	14.38	554.46	42.26	13.12	77.15
29	5112302071440730	50.09	14.00	552.51	42.16	13.11	78.79
30	5112302071440778	50.16	14.10	554.38	41.87	13.24	78.38
31	5112302071440787	49.69	14.15	551.62	41.60	13.26	78.47
SP112302070118							
1	5112302071440007	49.87	14.28	551.31	42.36	13.02	77.44
2	5112302071440009	49.75	14.42	552.91	41.98	13.17	77.08
3	5112302071440129	49.62	14.08	550.85	41.84	13.17	78.84
4	5112302071440281	49.68	14.08	551.49	41.80	13.19	78.87
5	5112302071440373	49.91	14.00	551.63	41.99	13.14	78.94
6	5112302071440456	49.98	14.06	553.32	41.91	13.20	78.74
7	5112302071440513	49.81	14.07	551.82	42.02	13.13	78.73
8	5112302071440518	49.36	14.39	550.44	41.79	13.17	77.51
9	5112302071440564	49.66	14.39	552.97	41.99	13.17	77.40
10	5112302071440574	50.41	14.06	552.40	41.81	13.21	77.96
11	5112302071440581	49.90	14.00	551.95	42.04	13.13	79.00
12	5112302071440582	49.63	14.34	551.37	42.04	13.12	77.46
13	5112302071440611	49.85	14.11	553.89	42.00	13.19	78.74
14	5112302071440617	49.55	14.10	551.64	41.74	13.22	78.95
15	5112302071440626	49.83	14.05	552.07	41.93	13.17	78.88
16	5112302071440637	49.92	14.38	553.95	42.12	13.15	77.18
17	5112302071440659	50.05	14.36	553.50	42.31	13.08	77.00
18	5112302071440672	50.01	14.04	553.18	42.10	13.14	78.76
19	5112302071440694	49.55	14.46	552.74	41.87	13.20	77.16
20	5112302071440696	49.88	14.36	552.82	41.90	13.19	77.16
21	5112302071440718	49.90	14.34	551.98	42.05	13.13	77.12
22	5112302071440731	49.85	14.11	553.02	41.84	13.22	78.60
23	5112302071440782	49.85	14.12	553.36	41.76	13.25	78.59
24	5112302071440784	49.84	14.40	554.58	41.93	13.23	77.24
25	5112302071440786	49.85	14.12	553.08	41.72	13.26	78.56
26	5112302071440805	49.86	14.05	550.57	41.88	13.15	78.59
27	5112302071440813	49.92	14.38	553.43	42.09	13.15	77.11
28	5112302071440816	49.87	14.06	550.37	41.87	13.15	78.50
29	5112302071440818	49.97	13.99	551.62	41.97	13.14	78.93
30	5112302071440823	49.75	14.34	551.28	41.86	13.17	77.26
31	5112302071440824	50.09	14.05	551.41	41.83	13.18	78.34
SP112302070119							
1	5112302071440099	49.76	14.39	551.67	42.04	13.12	77.05
2	5112302071440310	50.10	14.33	553.75	42.20	13.12	77.10
3	5112302071440312	50.15	14.23	551.63	42.36	13.02	77.28
4	5112302071440314	49.68	14.41	552.26	41.83	13.20	77.14
5	5112302071440315	50.29	14.18	551.71	42.45	13.00	77.38
6	5112302071440332	50.29	14.06	553.19	41.97	13.18	78.22
7	5112302071440333	50.34	13.96	554.78	42.47	13.06	78.93
8	5112302071440357	50.38	14.19	551.01	42.07	13.10	77.07
9	5112302071440366	50.09	14.31	553.16	42.27	13.09	77.19
10	5112302071440382	50.09	14.00	551.52	41.89	13.17	78.63
11	5112302071440411	50.32	13.99	553.74	42.35	13.08	78.65

12	5112302071440423	49.83	14.07	552.12	41.82	13.20	78.77
13	5112302071440436	49.91	14.11	553.19	41.99	13.17	78.54
14	5112302071440441	50.30	13.96	554.11	42.21	13.13	78.92
15	5112302071440442	50.21	14.33	553.91	42.34	13.08	77.01
16	5112302071440443	50.12	14.09	550.40	41.66	13.21	77.95
17	5112302071440481	50.10	14.23	551.58	42.36	13.02	77.36
18	5112302071440495	50.29	14.24	551.96	42.51	12.98	77.08
19	5112302071440496	49.93	14.30	553.57	42.20	13.12	77.51
20	5112302071440521	50.21	14.00	551.85	42.28	13.05	78.51
21	5112302071440533	50.13	14.22	551.89	42.47	13.00	77.41
22	5112302071440546	50.38	14.20	551.95	42.35	13.03	77.14
23	5112302071440549	50.19	14.31	553.92	42.13	13.15	77.11
24	5112302071440550	50.54	14.00	553.60	42.19	13.12	78.26
25	5112302071440604	49.80	14.09	554.14	42.11	13.16	79.00
26	5112302071440671	49.71	14.41	553.89	41.99	13.19	77.32
27	5112302071440687	49.83	14.07	551.74	41.80	13.20	78.70
28	5112302071440714	50.07	14.33	554.78	42.33	13.10	77.32
29	5112302071440745	49.77	14.34	553.27	42.24	13.10	77.54
30	5112302071440750	49.93	14.10	551.85	41.85	13.19	78.36
31	5112302071440822	49.85	14.09	554.10	42.11	13.16	78.88
SP112302070120							
1	5112302071440020	50.19	13.93	551.49	42.36	13.02	78.87
2	5112302071440044	50.47	14.13	551.32	42.57	12.95	77.31
3	5112302071440140	50.11	13.99	552.45	42.12	13.11	78.83
4	5112302071440194	50.27	14.05	551.77	41.87	13.18	78.11
5	5112302071440290	50.49	14.13	551.36	42.56	12.95	77.27
6	5112302071440300	50.51	13.98	552.10	42.26	13.06	78.18
7	5112302071440330	50.29	14.29	553.89	42.26	13.11	77.06
8	5112302071440331	50.21	14.32	554.69	42.44	13.07	77.15
9	5112302071440346	50.02	14.06	554.28	42.00	13.20	78.81
10	5112302071440351	49.89	14.36	552.10	42.14	13.10	77.04
11	5112302071440365	50.32	14.31	554.75	42.43	13.08	77.03
12	5112302071440367	50.05	14.01	551.13	41.66	13.23	78.60
13	5112302071440369	50.39	13.90	552.43	42.32	13.05	78.89
14	5112302071440380	50.35	13.98	553.02	42.18	13.11	78.55
15	5112302071440388	50.30	14.32	554.57	42.42	13.07	77.01
16	5112302071440390	50.04	14.30	551.09	42.14	13.08	77.04
17	5112302071440396	49.87	14.07	550.88	41.72	13.20	78.51
18	5112302071440401	50.17	14.28	553.44	42.27	13.09	77.25
19	5112302071440402	50.14	14.33	554.48	42.33	13.10	77.18
20	5112302071440406	50.11	14.01	552.98	42.27	13.08	78.80
21	5112302071440448	50.09	13.98	550.81	42.03	13.10	78.67
22	5112302071440450	50.05	14.33	553.25	42.18	13.12	77.13
23	5112302071440452	50.14	14.30	552.73	42.20	13.10	77.08
24	5112302071440454	49.92	14.04	550.63	42.00	13.11	78.56
25	5112302071440455	49.98	14.30	551.06	42.10	13.09	77.10
26	5112302071440465	50.08	13.97	552.19	42.17	13.09	78.93
27	5112302071440585	50.03	13.98	551.67	42.10	13.10	78.90
28	5112302071440599	49.91	14.36	552.30	42.16	13.10	77.09
29	5112302071440627	50.20	14.25	551.67	42.22	13.07	77.11
30	5112302071440628	50.13	13.97	552.69	42.14	13.12	78.89
31	5112302071440698	49.97	14.04	552.88	41.88	13.20	78.83