

FILED
March 1, 2021
INDIANA UTILITY
REGULATORY COMMISSION

STATE OF INDIANA

INDIANA UTILITY REGULATORY COMMISSION

IN THE MATTER OF THE VERIFIED)
PETITION OF INDIANAPOLIS POWER &)
LIGHT COMPANY D/B/A AES INDIANA)
PURSUANT TO IND. CODE § 8-1-40-16 FOR) CAUSE NO. 45504
APPROVAL OF RATE FOR THE)
PROCUREMENT OF EXCESS DISTRIBUTED)
GENERATION BY AES INDIANA)

PETITIONER'S SUBMISSION OF DIRECT WORKPAPERS

Indianapolis Power & Light Company d/b/a/ AES Indiana ("Petitioner", "AES Indiana" or the "Company"), by counsel, hereby submits its workpapers in connection with its direct testimony and attachments in this Cause.

Respectfully submitted,



Teresa Morton Nyhart (No. 14044-49)
T. Joseph Wendt (Atty. No. 19622-49)
Jeffrey M. Peabody (Atty. No. 28000-53)
BARNES & THORNBURG LLP

11 South Meridian Street
Indianapolis, Indiana 46204

Nyhart Phone: (317) 231-7716

Wendt Phone: (317) 231-7748

Peabody Phone: (317) 231-6465

Fax: (317) 231-7433

Nyhart Email: tnyhart@btlaw.com

Wendt Email: joseph.wendt@btlaw.com

Peabody Email: jpeabody@btlaw.com

Attorneys for INDIANAPOLIS POWER & LIGHT
COMPANY D/B/A AES INDIANA

IURC
PETITIONER'S
EXHIBIT NO. 5
DATE 11-16-21 REPORTER

OFFICIAL
EXHIBITS

CERTIFICATE OF SERVICE

The undersigned certifies that the foregoing was served upon the following via electronic email, First Class United States Mail, postage prepaid this 1st day of March, 2021 on:

T. Jason Haas
Office of Utility Consumer Counselor
115 W. Washington Street, Suite 1500 South
Indianapolis, Indiana 46204
infomgt@oucc.in.gov
thaas@oucc.in.gov



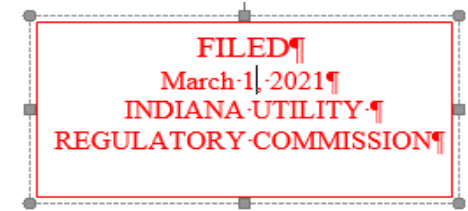
Jeffrey M. Peabody

Teresa Morton Nyhart (No. 14044-49)
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11 South Meridian Street
Indianapolis, Indiana 46204
Nyhart Phone: (317) 231-7716
Wendt Phone: (317) 231-7748
Peabody Phone: (317) 231-6465
Fax: (317) 231-7433
Nyhart Email: tnyhart@btlaw.com
Wendt Email: joseph.wendt@btlaw.com
Peabody Email: jpeabody@btlaw.com

Attorneys for INDIANAPOLIS POWER & LIGHT COMPANY
D/B/A AES INDIANA

**AES Indiana
Excess DG WPs
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Workpapers:
MDF-1



UNIT_REVENUE_LOAD_COST_CALC

:	Parameters	
Statement Operating Date:	Date Range (01/01/2020 - 12/31/2020)	
:	Conditions	196500.94
Node:	IPL.IPL	8784
Determinant Name:	Real-Time Locational Marginal Price	22.37

Begin Date	Node	Settlement Cycle	Determinant Name	HE01	HE02
1/1/2020	IPL.IPL	105	RT_LMP_EN	18.9	19.18
1/2/2020	IPL.IPL	105	RT_LMP_EN	16.74	17.22
1/3/2020	IPL.IPL	105	RT_LMP_EN	19.93	18.55
1/4/2020	IPL.IPL	105	RT_LMP_EN	17.85	17.99
1/5/2020	IPL.IPL	105	RT_LMP_EN	24.6	20.3
1/6/2020	IPL.IPL	105	RT_LMP_EN	20.96	16.71
1/7/2020	IPL.IPL	105	RT_LMP_EN	21.24	20.63
1/8/2020	IPL.IPL	105	RT_LMP_EN	16.88	18.14
1/9/2020	IPL.IPL	105	RT_LMP_EN	23.82	21.61
1/10/2020	IPL.IPL	105	RT_LMP_EN	16.19	17.93
1/11/2020	IPL.IPL	105	RT_LMP_EN	19.19	14.31
1/12/2020	IPL.IPL	105	RT_LMP_EN	20.6	237.12
1/13/2020	IPL.IPL	105	RT_LMP_EN	21.22	20.06
1/14/2020	IPL.IPL	105	RT_LMP_EN	20.38	18.04
1/15/2020	IPL.IPL	105	RT_LMP_EN	23.39	21.6
1/16/2020	IPL.IPL	105	RT_LMP_EN	15.55	13.86
1/17/2020	IPL.IPL	105	RT_LMP_EN	22.96	21.86
1/18/2020	IPL.IPL	105	RT_LMP_EN	33.22	21.74
1/19/2020	IPL.IPL	105	RT_LMP_EN	17.3	17.03
1/20/2020	IPL.IPL	105	RT_LMP_EN	59.07	22.03
1/21/2020	IPL.IPL	105	RT_LMP_EN	21.61	22.02
1/22/2020	IPL.IPL	105	RT_LMP_EN	17.62	19.06
1/23/2020	IPL.IPL	105	RT_LMP_EN	18.72	18.18
1/24/2020	IPL.IPL	105	RT_LMP_EN	16.52	16.77
1/25/2020	IPL.IPL	105	RT_LMP_EN	18.55	17.37
1/26/2020	IPL.IPL	105	RT_LMP_EN	18.26	18.39
1/27/2020	IPL.IPL	105	RT_LMP_EN	19.36	64.98
1/28/2020	IPL.IPL	105	RT_LMP_EN	20.78	20.64
1/29/2020	IPL.IPL	105	RT_LMP_EN	20.62	23.97
1/30/2020	IPL.IPL	105	RT_LMP_EN	21.32	21
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2/2/2020	IPL.IPL	105	RT_LMP_EN	22.41	19.5
2/3/2020	IPL.IPL	105	RT_LMP_EN	12.43	11.82
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8/31/2020 IPL.IPL	105 RT_LMP_EN	9.49	11.21
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9/2/2020 IPL.IPL	105 RT_LMP_EN	16.53	16.34
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9/9/2020 IPL.IPL	105 RT_LMP_EN	16.78	16.3
9/10/2020 IPL.IPL	105 RT_LMP_EN	17.1	16.72
9/11/2020 IPL.IPL	105 RT_LMP_EN	17.55	16.41
9/12/2020 IPL.IPL	105 RT_LMP_EN	18.22	17.61
9/13/2020 IPL.IPL	105 RT_LMP_EN	16.96	17.11
9/14/2020 IPL.IPL	105 RT_LMP_EN	17.26	16.74
9/15/2020 IPL.IPL	105 RT_LMP_EN	12.02	9.62
9/16/2020 IPL.IPL	105 RT_LMP_EN	13.13	11.86
9/17/2020 IPL.IPL	105 RT_LMP_EN	14.34	14.17
9/18/2020 IPL.IPL	105 RT_LMP_EN	13	12.82
9/19/2020 IPL.IPL	105 RT_LMP_EN	11	7.19
9/20/2020 IPL.IPL	105 RT_LMP_EN	12.06	9.09
9/21/2020 IPL.IPL	105 RT_LMP_EN	9.04	6.49
9/22/2020 IPL.IPL	105 RT_LMP_EN	13.76	14.46
9/23/2020 IPL.IPL	105 RT_LMP_EN	11.92	11.2
9/24/2020 IPL.IPL	105 RT_LMP_EN	12.02	11.82
9/25/2020 IPL.IPL	105 RT_LMP_EN	17.09	14.56
9/26/2020 IPL.IPL	105 RT_LMP_EN	18.57	18.65
9/27/2020 IPL.IPL	105 RT_LMP_EN	14.6	14.39
9/28/2020 IPL.IPL	105 RT_LMP_EN	17.03	16.97

9/29/2020 IPL.IPL	105 RT_LMP_EN	15.56	15.12
9/30/2020 IPL.IPL	105 RT_LMP_EN	16.02	13.99
10/1/2020 IPL.IPL	105 RT_LMP_EN	9.04	10.4
10/2/2020 IPL.IPL	105 RT_LMP_EN	15.75	16.23
10/3/2020 IPL.IPL	105 RT_LMP_EN	16.48	16.25
10/4/2020 IPL.IPL	105 RT_LMP_EN	14.17	14.62
10/5/2020 IPL.IPL	105 RT_LMP_EN	8.26	8.31
10/6/2020 IPL.IPL	105 RT_LMP_EN	20.58	17.66
10/7/2020 IPL.IPL	105 RT_LMP_EN	14.55	13.92
10/8/2020 IPL.IPL	105 RT_LMP_EN	16.87	15.66
10/9/2020 IPL.IPL	105 RT_LMP_EN	22.86	17.56
10/10/2020 IPL.IPL	105 RT_LMP_EN	15.27	13.78
10/11/2020 IPL.IPL	105 RT_LMP_EN	17.68	12.23
10/12/2020 IPL.IPL	105 RT_LMP_EN	19.05	16.67
10/13/2020 IPL.IPL	105 RT_LMP_EN	16.11	16.23
10/14/2020 IPL.IPL	105 RT_LMP_EN	20.39	18.9
10/15/2020 IPL.IPL	105 RT_LMP_EN	16.66	14.6
10/16/2020 IPL.IPL	105 RT_LMP_EN	19.52	18.86
10/17/2020 IPL.IPL	105 RT_LMP_EN	26.41	20.32
10/18/2020 IPL.IPL	105 RT_LMP_EN	16.46	17
10/19/2020 IPL.IPL	105 RT_LMP_EN	20.06	19.55
10/20/2020 IPL.IPL	105 RT_LMP_EN	19.59	19.4
10/21/2020 IPL.IPL	105 RT_LMP_EN	17.92	16.88
10/22/2020 IPL.IPL	105 RT_LMP_EN	19.87	19.24
10/23/2020 IPL.IPL	55 RT_LMP_EN	17.26	14.54
10/24/2020 IPL.IPL	55 RT_LMP_EN	22.03	22.25
10/25/2020 IPL.IPL	55 RT_LMP_EN	21.18	20.62
10/26/2020 IPL.IPL	55 RT_LMP_EN	19.41	19.26
10/27/2020 IPL.IPL	55 RT_LMP_EN	20.88	21.08
10/28/2020 IPL.IPL	55 RT_LMP_EN	19.09	18.27
10/29/2020 IPL.IPL	55 RT_LMP_EN	18.17	17.67
10/30/2020 IPL.IPL	55 RT_LMP_EN	22.57	24.29
10/31/2020 IPL.IPL	55 RT_LMP_EN	22.44	22.41
11/1/2020 IPL.IPL	55 RT_LMP_EN	-5.02	0.08
11/2/2020 IPL.IPL	55 RT_LMP_EN	24	22.22
11/3/2020 IPL.IPL	55 RT_LMP_EN	38.5	32.33
11/4/2020 IPL.IPL	55 RT_LMP_EN	21.52	23.64
11/5/2020 IPL.IPL	55 RT_LMP_EN	20.46	19.95
11/6/2020 IPL.IPL	55 RT_LMP_EN	17.44	18.3
11/7/2020 IPL.IPL	55 RT_LMP_EN	7.95	12.52
11/8/2020 IPL.IPL	55 RT_LMP_EN	5.3	-0.11
11/9/2020 IPL.IPL	55 RT_LMP_EN	5.76	1.81
11/10/2020 IPL.IPL	55 RT_LMP_EN	15.78	14.78
11/11/2020 IPL.IPL	55 RT_LMP_EN	17.76	16.74
11/12/2020 IPL.IPL	55 RT_LMP_EN	21.56	18.94
11/13/2020 IPL.IPL	55 RT_LMP_EN	20.27	19.76
11/14/2020 IPL.IPL	55 RT_LMP_EN	23.01	21.55

11/15/2020 IPL.IPL	55 RT_LMP_EN	16.34	18.46
11/16/2020 IPL.IPL	55 RT_LMP_EN	20.71	20.87
11/17/2020 IPL.IPL	55 RT_LMP_EN	23.57	20.25
11/18/2020 IPL.IPL	55 RT_LMP_EN	20.62	20.16
11/19/2020 IPL.IPL	55 RT_LMP_EN	28.4	28.62
11/20/2020 IPL.IPL	55 RT_LMP_EN	16.55	21.91
11/21/2020 IPL.IPL	55 RT_LMP_EN	18.33	17.64
11/22/2020 IPL.IPL	55 RT_LMP_EN	16.75	18.17
11/23/2020 IPL.IPL	55 RT_LMP_EN	17.98	18.42
11/24/2020 IPL.IPL	55 RT_LMP_EN	19.09	19.73
11/25/2020 IPL.IPL	55 RT_LMP_EN	18.64	19.48
11/26/2020 IPL.IPL	55 RT_LMP_EN	18.02	17.6
11/27/2020 IPL.IPL	55 RT_LMP_EN	16.57	17.49
11/28/2020 IPL.IPL	55 RT_LMP_EN	14.4	13.14
11/29/2020 IPL.IPL	55 RT_LMP_EN	14.68	16.38
11/30/2020 IPL.IPL	55 RT_LMP_EN	17.84	17.26
12/1/2020 IPL.IPL	55 RT_LMP_EN	17.26	18.77
12/2/2020 IPL.IPL	55 RT_LMP_EN	25.92	23.67
12/3/2020 IPL.IPL	55 RT_LMP_EN	21.76	20.94
12/4/2020 IPL.IPL	55 RT_LMP_EN	17.96	18.27
12/5/2020 IPL.IPL	55 RT_LMP_EN	21.56	21.94
12/6/2020 IPL.IPL	55 RT_LMP_EN	19.59	21.54
12/7/2020 IPL.IPL	55 RT_LMP_EN	22.13	21.18
12/8/2020 IPL.IPL	55 RT_LMP_EN	23.05	22.7
12/9/2020 IPL.IPL	55 RT_LMP_EN	17.21	17.33
12/10/2020 IPL.IPL	55 RT_LMP_EN	21.34	19.38
12/11/2020 IPL.IPL	55 RT_LMP_EN	18.75	17.18
12/12/2020 IPL.IPL	14 RT_LMP_EN	16.23	16.08
12/13/2020 IPL.IPL	14 RT_LMP_EN	25.09	19.57
12/14/2020 IPL.IPL	14 RT_LMP_EN	18.64	17.97
12/15/2020 IPL.IPL	14 RT_LMP_EN	23.93	23.1
12/16/2020 IPL.IPL	14 RT_LMP_EN	20.74	20.23
12/17/2020 IPL.IPL	14 RT_LMP_EN	25.55	23.96
12/18/2020 IPL.IPL	14 RT_LMP_EN	82.33	50.8
12/19/2020 IPL.IPL	14 RT_LMP_EN	18.99	19.18
12/20/2020 IPL.IPL	14 RT_LMP_EN	22.72	21.45
12/21/2020 IPL.IPL	14 RT_LMP_EN	20.13	20.19
12/22/2020 IPL.IPL	14 RT_LMP_EN	22.26	20.53
12/23/2020 IPL.IPL	14 RT_LMP_EN	17.82	17.03
12/24/2020 IPL.IPL	14 RT_LMP_EN	12.03	13.86
12/25/2020 IPL.IPL	14 RT_LMP_EN	23.01	22.51
12/26/2020 IPL.IPL	14 RT_LMP_EN	21.81	23.78
12/27/2020 IPL.IPL	14 RT_LMP_EN	20.87	20.94
12/28/2020 IPL.IPL	14 RT_LMP_EN	17.55	17.32
12/29/2020 IPL.IPL	14 RT_LMP_EN	22.28	21.56
12/30/2020 IPL.IPL	14 RT_LMP_EN	17.95	16.41
12/31/2020 IPL.IPL	14 RT_LMP_EN	18.73	17.85

Settlement Version	Begin Date
S105	01/01/20
S55	10/23/20
S14	12/12/20

Sum of hourly LMPs

Total hours in 2020

2020 IPL.IPL Average Hourly Real-Time LMP

Calculated date was with statements received

HE03	HE04	HE05	HE06	HE07	HE08	HE09	HE10	HE11	HE12
19.88	17.46	15.84	17.72	20.75	20.42	19.25	20.13	20.38	19.5
21.65	19.56	27.96	25.95	31.22	34.66	20.63	21.81	21.45	20.85
19.3	19.01	19.06	20.86	23.99	23.51	24.24	54.28	26.92	59.82
18.84	18.33	19.22	17.71	20.63	20.56	22.12	23.11	23.82	22
17.87	16.72	18.59	24.48	23.36	25.79	22.94	21.9	22.5	20.6
15.92	16.42	16.23	19.21	38.9	103.05	24.9	23.02	21.8	23.48
20.41	20.4	20.5	21.91	29.64	53.75	24.52	23.64	29.42	26.7
18.98	19.17	19.85	21.12	24.74	60.78	25.46	25.11	21.14	117.51
21.06	21.09	23.36	25.15	40.15	32.25	23.51	22.85	24.12	22.05
21.12	20.43	17.84	17.97	20.93	26.94	22.6	21.94	21.05	21.76
14.13	19.03	13.84	13.86	12.77	14.02	15.98	18.68	19.9	21.06
23	23.04	42.71	22.36	21.03	24.03	20.88	36.76	30.39	21.52
20.41	19.06	20.8	20.42	25.29	33.99	28.7	34.46	23.89	23.01
18.6	17.9	20.32	19.98	33.34	40.04	28.59	22.65	25.16	21.59
15.98	19.57	22.27	20.95	60.07	25.55	37.17	22.4	21.24	30.93
14.47	15.36	16.01	16.88	20.18	26.28	23.28	23.19	26.12	24.68
21.45	20.64	20.27	21.18	27.54	26.22	22.88	21.92	22.19	22.73
20.95	20.19	18.63	17.25	18.16	19.81	20.66	20.88	21.34	21.33
17.09	15.99	16.37	16.6	17.2	19.05	20.1	21.35	21.75	21.34
22.78	22.24	22.27	24.52	22.22	23.47	24.88	25.84	25.62	25.59
20.9	19.7	21.51	22.15	24.26	24.37	23.07	22.15	24.95	21.09
18.5	19.04	22.35	23.54	25.07	22.58	21.13	23.35	20.46	19.5
18.4	18.25	19	20.41	21.58	23.7	21.7	22.26	29.27	20.06
17.46	17.6	17.61	17.76	22.1	21.01	21.22	22.21	112.5	23.17
17.79	18.02	17.07	18.24	19.19	19.67	20.39	21.27	20.02	20.03
19.53	18.36	18.37	18.12	19	19.5	20.72	20.51	20.23	19.62
19.35	19.47	18.68	21.72	27.93	22.21	21.85	21.87	22.02	24.8
20.37	21.43	21.6	21.64	29.85	84.25	24.22	22.41	22.06	25.23
21.26	21.16	21.37	21.42	27.68	22.31	22.11	22.15	21.66	22.17
20.87	20.66	20.99	20.52	21.49	22.38	23.57	22.48	22.4	22.42
18.53	18.24	18.72	19.01	21.62	39.63	22.82	22.32	23.17	22.68
17.42	17.27	17.55	17.28	17.99	19.2	19.18	19.77	19.36	18.82
20.36	15.42	19.41	18.74	20.24	20.28	20.85	20.5	15.48	14.88
11.95	12.29	13.19	16.69	24.22	20.89	21.5	19.11	18.4	18.7
12.89	12.75	12.05	13.01	16.37	19.21	20.79	17.63	18.9	18.97
15.59	17.06	17.41	19.91	58.07	20.85	21.62	20.66	20.57	21.73
19.19	19.05	18.78	19.15	22.13	26.93	23.02	21.26	22.11	21.61

18.84	18.2	19.17	19.45	22.77	31.01	21.86	20.63	20.51	20.68
20.2	19.91	20.51	21.11	20.83	22.3	23.45	22.62	21.68	21.46
20.19	20.4	22.86	25.21	28.02	32.49	23.06	19.95	20.35	18.17
14.65	15.48	16.79	19.58	24.7	23.75	23.32	24.02	22.07	32.95
16.66	16.7	19.2	46.66	66.74	23.75	21.9	33.18	23.69	21.38
16.44	16.3	17.08	18.24	21.14	23.65	23.41	21.07	22.94	21.3
14.76	14.16	14.18	14.69	20.63	19.26	18.9	19	19.69	19.78
19.57	19.37	19.75	20.17	20.95	24.42	21.98	20.96	20.7	20.94
21.92	18.86	19.85	25.16	26.4	20.79	23.03	20.31	20.25	19.77
18.69	18.73	18.15	18.45	17.36	17.85	17.96	18.79	17.92	16.84
15.75	16.36	15.89	17.35	21.37	23	20.85	19.87	19.58	20.23
12.5	12.21	12	13.13	16.42	20.12	18.79	19.6	19.79	19.39
17.64	17.49	18.16	19.65	22.74	33.99	26.95	22.02	22.99	22.53
19.61	20.2	21.66	22.51	22.49	24.84	24.25	23.25	22.08	23.23
20.26	21.2	21.1	21.54	26.37	45.89	25.36	21.23	19.85	19.43
17.68	16.95	20.09	22.66	19.83	21.21	22.74	21.03	18.4	17.98
26.87	22.7	19.02	22.48	24.03	24.05	24.56	18.4	18.03	17.22
13.8	13.81	13.86	17.55	23.66	20.11	20.04	21.19	21.18	21.01
15.18	14.3	18.2	16.88	20.96	20.01	19.75	19.05	18.7	18.66
13.88	14.08	14.02	16.64	21.66	22.19	23.54	21.83	21.52	21.1
19.61	19.5	19.67	19.9	23.54	24.46	22.93	26.99	21.11	37.64
19.78	19.83	20.05	20.59	20.73	34.01	22.07	20.34	20.68	51.91
20.52	19.88	20.26	20.46	53.73	25.39	24.56	20.59	20.14	18.73
23.78	29.63	34.16	33.1	23.55	30.88	28.76	18.37	16.28	16.4
11.25	10.99	10.69	13.01	18.26	23.42	23.72	20.48	24.28	21.38
15.67	14.69	13.51	16.53	18.49	19.88	18.44	22.03	18.08	19.28
17.75	18.14	18.5	18.75	106.6	70.69	23.1	20.99	20.56	21.04
18.43	19.76	23.24	27.63	29.15	20.07	21.97	19.83	18.56	18.91
19.95	20.58	20.25	30.48	81.24	26.23	22.59	22.71	32	22.06
19.67	18.82	18.93	19.09	22.74	24.21	21.37	20.99	18.2	17.85
25.83	32.12	43.38	27.64	36.32	38.18	41.14	29.51	22	24.04
15.55	19.99	26.69	21.42	20.08	20.97	20.43	22.43	18.6	18.51
14.3	16.92	24.2	20.8	31.07	29.7	28.69	25.23	52.47	23.95
17.66	18.69	19.74	21.08	22.15	22.27	21.94	26.54	27.94	22.14
12.73	13.95	15.65	42.91	19.18	19.25	19.61	19.67	19.82	19.7
8.57	9.85	15.33	28.17	18.65	18.95	19.07	18.84	18.41	18.16
16.46	17.44	17.94	18.71	18.68	19.99	23.39	31.6	22.41	53.64
21.8	20.25	19.76	20.17	20.58	20.06	20.65	29.69	21.55	22.65
21.07	20.78	21.83	21.29	24.44	26.32	28.9	46.98	39.39	38.82
16.37	16.98	19.76	20.08	19.94	19.62	20.93	20.39	38.02	28.52
16.84	17.64	20.04	20.89	19.37	21.8	22.03	22.52	23.25	61.22
16.25	17.2	19.73	21.22	18.56	17.49	19.85	19.39	19.47	19.13
4.4	5.02	8.28	11.3	12.95	13.68	14.05	15.18	15.74	15.88
16.96	16.93	16.68	18.43	18.58	18.89	18.84	18.96	18.73	18.3
14.67	16.34	17.66	19.51	18.3	21.3	50.91	17.78	16.69	17.4
16.61	17.67	17.62	19.3	19.33	19.27	20.92	20.9	21.27	26.96
16.76	18.21	21.36	21.27	18.83	20.66	18.59	21.29	18.76	17.4

13.63	12.72	23.24	23.33	19.02	21.45	17.94	18	18.82	18.29
12.29	12.95	15.13	16.56	18.07	17.98	18.48	25.63	20.24	20.68
10.95	11.51	13.61	15.71	16.69	16.9	17.35	17.16	17.79	17.75
10.91	11.19	11.39	11.66	12.15	12.24	14.77	16.49	17.51	17.25
5.01	7.86	5.8	10.25	9.32	10.49	10.29	12	13.42	13.85
8.97	9.26	11.8	15.48	16.93	17.12	17.01	18.34	18.34	18.34
10.55	11.1	13.18	15.56	18.7	18.42	18.19	20.41	20.21	20.94
15.84	15.01	16.6	18.76	17.61	18.93	19.48	19.17	18.84	18.58
11.24	12.36	14.29	18.96	18.35	19.83	17.76	17.4	16.5	16.55
12.46	12.27	13.9	16.29	16.68	16.84	17.42	40.94	48.92	18.74
14.31	13.69	15.13	16.06	17.57	18.24	17.55	18.71	22.16	19.83
15.05	14.42	14.65	15.53	14.87	14.73	17.07	16.14	20.87	16
12.7	13.74	15.35	28.03	21.58	22.3	17.57	17.73	18.05	17.99
8.8	8.17	10.14	14.07	16.17	17.57	18.12	19.19	18.48	18.51
14.64	14.64	16.26	18	17.39	17.38	17.42	19.74	19.5	22.82
13.7	12.16	14.68	20.08	17.87	17.67	17.24	32.27	120.33	18.21
12.43	14.38	20.58	19.84	19.9	21.86	30.95	21.17	96.27	52.35
17.76	16.33	18.98	25.08	18.52	15.72	17.87	17.69	18.57	17.94
14.8	15.2	16.31	17.15	15.68	16.47	17.55	23.38	17.22	19.71
14.83	14.71	16.65	39.83	15.94	17.62	16.93	17.34	19.54	19.89
15.51	15.54	16.29	18.43	19.84	24.82	19.56	17.66	17.17	16.57
18.77	21.52	20.9	20.77	19.27	21.77	20.28	19.9	19.78	20.65
18.31	16.46	18.03	66.08	19.58	19.88	19.23	18.3	18.65	18.03
13.88	14.43	14.88	17.69	18.87	20.03	18.61	18.57	17.94	18.21
16.08	15.96	14.53	16.53	18.28	19.11	20.17	19.25	16.71	16.68
13.4	11.82	10.29	12.38	11.36	11.98	14.59	16.02	18.72	21.01
23.24	16.53	18.74	26.2	18.61	22.43	32.32	21.22	24.4	19.08
12.43	12.95	15.55	19.37	19.62	36.54	82.01	60.35	46.35	27.65
16.28	15.61	20.46	16.86	25.89	17.17	18.02	17.78	18.57	19.17
14.87	15.53	18.3	17.91	18.63	19.58	20.04	20.64	20.36	20.57
16.49	24.94	17.85	22.14	17.98	20.29	19.78	21.04	19.78	19.27
15.33	15.66	16.37	16.72	24.22	16.21	17.04	18.02	17.79	17.94
13.73	14.28	14.61	15.23	14.88	15.24	16.83	17.33	17.34	17.38
45.62	31.69	52.8	76.97	110.84	28.32	17.86	16	28.42	35.52
16.36	27.84	30.8	14.66	15.02	17.36	20.02	17.91	17.44	19.66
9.92	8.92	7.59	11.06	10.56	12.18	15.16	16.07	15.64	16.61
41.62	36.24	28.08	18.92	36.1	21.57	66.62	18.97	49.28	18.91
14.14	20.36	16.69	19.17	18.69	18.09	18.84	19.77	23.12	21.48
7.45	11.39	9	3.5	3.75	13.35	15.19	15.62	15.49	15.54
12.92	12.88	12.81	12.78	12.92	14.82	15.84	16.3	16.1	16.61
5.46	7.93	8.15	15	15.5	15.61	17.1	17.93	19.44	21.86
15.6	16.74	16.83	15.77	16.65	17.5	18.11	20.11	20.39	27.9
17.31	17.44	16.52	62.9	23.6	32.96	22.32	21.82	23.79	24.19
13.59	13.74	15.09	20.96	21.36	37.1	20.93	18.87	19.1	19.14
7.19	6.15	10.82	14.73	16.82	19.05	18.37	16.94	16.23	16.57
16.26	16.91	62.48	16.24	16.62	17.11	40.86	40.86	18.65	23.68
7.47	5.45	9.94	10.6	17.96	17.77	14.77	14.15	17.54	47.92

12.45	13.89	14.25	16.99	18.3	19.27	20.22	19.85	22.74	20.61
15.67	15.11	16.64	22.5	22.64	25.58	97.63	18.6	20.88	29.16
16.15	17.39	20.73	117.76	20.97	32.12	18.53	19.77	19.58	19.96
11.35	12.94	14.94	15.94	18.07	17.65	18.05	20.55	18.31	18.61
10.55	11.17	11.74	15.29	17.18	16.77	17.33	123.57	49.37	18.76
14.87	14.8	16.26	15.3	14.92	17.72	19.22	17.95	19.42	19.33
11.27	10.56	10.1	7.16	3.83	10.61	12.62	16	18.53	18.24
4.56	2.42	10.56	12.02	13.73	16.52	23.61	20.22	19.57	23.24
11.39	11.51	13.44	15.75	16.92	17.91	18.04	17.93	19.06	19.42
14.62	14.77	16.42	16.52	16.99	17.86	18.37	18.5	18.82	20.4
11.91	13.32	16.79	16.83	17.9	19.64	18.51	18.38	18.69	18.76
15.13	14.5	17.14	16.98	17.57	18.96	20.23	20.34	19.97	21.26
7.01	9.31	10.18	10.25	10.88	14.11	17.02	18.27	18.52	18.91
3.41	2.66	3.44	-10.68	-4.03	8.47	14.37	16.26	17.72	18.14
13.4	12.25	13.27	12.8	14.46	15.57	17.47	39.94	27.86	34.73
12.44	12.29	11.67	13.34	18.73	20.85	23.35	28.19	88.65	64.37
13.59	12.7	14.58	15.88	17.68	28.7	19.15	20.28	22.1	22.74
15.48	14.57	15	16.51	19.36	22.55	20.82	23.66	20.2	19.2
13.67	12.64	14.17	16.62	21.89	24.57	18.42	20.07	28.34	84.76
13.12	12.57	12.83	13.32	14.4	15.99	17.34	18.07	17.73	18.23
12.43	11.91	11.41	10.51	10.31	11.86	14.2	14.91	15.96	17.17
-8.17	10.35	17.46	16.38	20.19	16.97	15.86	15.03	16.13	16.62
7.29	8.32	4.96	16.84	15.67	14.95	15.54	16.8	19.36	20.42
17.5	20.93	16.3	16.09	16.75	32.52	23.13	20.34	20.39	21.91
11.84	11.37	12.22	17.31	17.58	19.35	20.2	19.41	21.17	24.65
10.36	11.86	12.05	12.8	18.46	18.78	18.62	17.94	18.98	19.54
12.42	10.91	11.36	11.14	11.33	26.91	22.21	19.28	21.76	23.66
6.77	7.6	2.95	-7.94	7.75	11.87	14.49	15.98	16.9	17.74
10.08	10.12	10.86	12.2	14.84	16.6	17.82	18.39	18.97	27.75
15.26	15.03	15.53	16.63	17.27	18.77	65.84	53.12	30.26	23.19
15.57	15.3	17.81	20.54	26.31	21.45	173.36	134.04	100.63	295.94
6.83	1.97	0.27	3.95	11.39	14.53	17.33	16.98	16.85	17.58
11.77	10.45	11.54	12.21	14.18	18.14	30.45	18.83	19.65	20.88
14.75	13.15	12.28	11.36	10.83	11.01	13.95	16.16	16.68	17.49
6.4	4.14	-23.66	-21.8	-4.9	10.9	12.06	14.63	14.56	16.57
9.39	10.34	11.85	13.03	15.34	16.35	17.16	19.18	19.1	20.24
13.09	12.94	15.02	15.35	14.92	15.8	18.36	18.71	18.36	19.69
10.53	10.33	12.03	11.48	15.88	29.71	25.52	24.91	32.43	23.74
9.87	8.36	9.23	9.7	13.8	20.92	31.09	25.18	25.46	28.81
13.96	13.45	15.15	16.3	18.69	23.77	24.94	21.17	24.11	25.38
14.57	13.9	13.59	13.17	15.43	18.94	18.28	18.9	19.4	21.01
13.51	11.94	10.22	9.17	10.09	14.03	19.08	20.69	20.67	20.57
12.25	11.71	12.57	14.57	17.82	17.69	18.73	20.26	20.28	22.68
13.04	11.83	12.01	13.43	17.08	17.66	17.97	18.22	18.78	20.3
13.25	12.72	13.64	14.45	16.2	17.19	18.33	19.25	18.91	20.97
13.3	13.91	14.45	15.19	16.46	17.62	19.31	19.52	25.2	29.19
12.76	12.75	14.31	14.93	19.59	18.48	19.14	27.6	21.29	31.47

14.45	13.66	14.15	14.44	16.82	18.74	18.34	19.55	20.16	20.56
11.74	10.28	9.3	9.04	10.11	14.04	16.95	18.07	19.54	20.84
10.95	11.13	12.07	15.43	18.02	20.33	19.78	99.77	34.84	29.63
13.02	12.97	13.51	17.04	18.28	19.48	20.73	22.18	24.58	38.26
14.64	14.62	14.56	14.54	16.45	17.21	19.91	21.25	23.87	23.13
12.35	12.53	14.01	14.49	17.58	19.76	21.19	25.91	31.13	23.53
14.25	12.7	13.19	13.66	15.83	18.13	23.45	20.07	21.98	22.07
13.11	12.53	11.87	10.74	12.53	15.59	24.23	20.72	36.09	28.58
12.96	11.26	9.83	9.66	10.35	15.8	18.57	22.1	28.46	22.99
15.09	14.29	14.92	16.39	16.94	20.48	27.07	44.48	49.35	32.88
14.92	14.69	15.23	19.46	24.67	25.08	24.56	35.93	30.47	28.93
13.87	13.75	15.02	16.64	18.84	21.89	23.87	30.44	34.58	39.4
15.34	15.27	16.19	17.19	23.34	21.38	22.39	38.55	41.84	75.21
14.46	13.08	14.06	15.53	18.17	21.91	31.8	23.26	24.49	34.31
14.64	12.68	12.79	13.18	14.49	17.69	22.82	21.9	130.65	31.92
14.7	13.58	13.51	13.65	13.89	16.8	17.47	18.34	20.5	24.66
12.38	11.73	13.94	14.96	17.55	20.48	22.79	22.7	20.38	21.32
12.64	13.22	13.83	14.59	17.39	37.52	28.58	65.28	20.51	35.45
12.57	13.34	13.76	15.36	16.37	18.55	24.57	20.89	21.59	26.96
15.75	14.77	15.1	21.71	17.85	18.6	20.47	18.76	19.44	20.27
12.93	12.92	13.43	14.81	17.81	22.74	180.91	66	163.71	28.04
13.36	12.68	12.54	12.38	13.8	60.43	17.81	19.72	20.32	20.93
16.83	16.19	14.66	14.27	15.58	36.74	18.46	24.57	12.63	3.63
14.34	13.98	14.65	15.63	16.17	17.45	18.27	19.27	20.02	22.51
14.1	13.16	14.41	15.42	21.06	19.26	22.36	20.09	20.74	27.51
15.15	15.17	17.85	19.8	20.12	21.85	21.59	22.43	32.25	51.23
14.93	15.1	16	19.24	37.82	20.81	22.24	29.16	28.41	33.89
13.14	12.21	13.25	13.49	16.23	17.8	21.14	22.28	27.62	27.05
12.86	12.18	13.93	12.76	15.92	24.95	19.92	22.55	23.55	22.66
14.16	12.24	11.43	11.7	12.4	17.64	85.95	36.39	20.39	24.9
16.93	16.6	19.5	23.75	21.53	29.32	25.25	26.38	25.72	30.47
14.51	14.59	15.77	15.6	17.45	25.7	38.03	31.89	21.31	22.44
15.43	15.08	16.28	17.2	19.09	22.86	33.21	21.72	41.92	38.68
16.3	15.98	17.87	17.66	19.85	32.97	20.73	20	19.67	22.5
15.28	14.86	16.15	16.93	16.72	19.98	25.33	20.65	20.72	21.69
15.49	15.25	14.71	15.03	16.55	17.53	19.32	23.17	22.01	25.53
14.27	14.07	19.78	13.91	12.43	15.51	17.18	17.66	19.2	22.69
14.94	15.45	17.17	17.92	17.24	21	20.73	33.19	45.92	39.35
14.32	14.3	15.26	16.88	15.69	17.6	21	21.71	20.9	31.4
14.44	14.35	15.59	16.06	17.3	17.78	18.27	19.16	19.3	21.54
14.94	14.38	15.15	16.23	16.94	16.84	18.47	19.25	20.61	22.94
15.57	14.44	15.33	18.26	16.9	19.53	19.47	80.07	36.33	22.26
14.36	13.98	13.67	14.87	14.73	17.13	17.64	19.27	21.36	31.52
14.62	12.76	12.72	12.83	12.89	16.58	17.64	20.17	19.87	21.94
15.41	15.88	17.37	17.99	18.04	19.78	30.02	33.4	43.01	90.79
15.21	15.55	16.86	17.84	18.52	18.47	19.79	21.54	22.16	25.58
15.88	16.06	16.84	17.31	17.94	18.62	20.74	20.42	21.28	21.67

15.12	15.2	15.5	16.56	17.19	18.15	21.03	20.95	21.72	27.09
17.2	16.54	16.3	17.26	17.66	18.3	19.96	29.44	22.82	29.34
17.12	16.95	16.32	16.14	16.45	17.48	18.69	20.8	22.82	25.62
15.87	14.25	14.47	14.72	14.65	16.45	17.79	19.08	19.79	20.35
14.93	14.54	15.16	16	16.63	18.72	21.5	20.55	20.98	24.14
15.98	15.87	16.89	17.35	17.36	18.33	19.33	20.03	21.22	21.71
14.78	14.66	15.4	16.63	16.96	17.97	19.72	19.8	20	20.65
11.52	12.36	14.75	16.83	17.38	17.91	18.57	18.91	19.81	21.15
15.21	15.27	16.13	17.94	18.44	18.67	19.76	26.97	27.64	32.14
15.69	15.79	16.29	16.44	16.94	18.74	18.52	19.8	21.29	22.79
16.35	15.21	15.16	15.25	15.84	17.34	18.61	20.6	23.29	44.97
15.51	15.85	16.9	18.01	18.35	19.25	20.32	23.51	28.02	34.35
16.82	16.87	17.81	19.52	20.28	20.96	21.75	23.27	24.35	31.17
16.48	15.8	15.66	18.24	17.83	18.9	18.82	20.59	20.75	24.13
16.87	18.74	20.07	21.77	24.06	24.22	22.64	39.62	52.67	37.13
16.99	16.66	18.29	21.8	20.25	19.57	19.99	21.89	22.23	37.61
16.33	16.1	16.34	16.21	16.44	17.33	18.68	20.24	21.42	22.53
14.77	11.8	11.02	13.96	12.12	14.74	15.83	17.97	17.48	18.42
3.94	12.12	13.28	16.42	17.79	17.91	19.71	19.7	25.94	21.8
14.91	15.01	16.43	17.9	18.72	18.55	20.76	21.49	27.29	24.89
15.88	16.09	18.44	19.02	18.58	19.38	22.64	22.14	22.11	23.04
15.62	15	14.63	17.43	16.96	18.24	19.85	20.73	21.48	21.99
15.29	15.27	15.66	16.32	17.6	18.39	19.77	22.57	21.53	21.24
14.08	14.02	14.43	15.16	15.15	15.05	17.27	18.3	18.46	18.66
2.52	-9.67	-8.49	11.33	-3.83	5.92	12.41	14.92	17.04	17.29
8.5	5.92	10.98	12.44	13.57	14.02	16.05	19.03	22.81	32.32
11.53	12.5	14.41	16.11	18.88	18.14	19.9	20.44	21.89	32.62
14.71	14.81	15.82	17.02	17.87	19.18	21.46	21.8	24.42	29.65
14.92	15.26	16.35	18.31	19.78	19.17	20.09	20.59	21.84	22.15
16.21	16.69	16.7	18.25	19.23	19.1	19.49	19.87	20.48	20.71
17.31	17.05	17.43	17.63	17.99	18.43	20.63	20.87	24.07	25.15
16.64	15.46	15.86	15.74	15.99	16.1	17.81	19.46	19.02	20.47
15.83	16.69	17.49	17.98	18.42	18.71	19.33	19.94	20.47	20.67
9.8	11.59	12.16	14.21	15.87	15.86	16.96	19.61	17.91	19.63
10.08	5.41	7.35	14.09	16.87	17.19	18.47	18.64	17.74	18.62
14.14	14.06	14.75	15.31	18.43	18.53	19.38	20.22	21.17	21.17
12.78	13.1	14.27	27.37	20.86	17.62	19.06	18.57	18.94	19.95
9.36	10.24	11.42	12.26	12.75	15.53	17.17	16.93	15.06	14.43
8.63	8.63	10.68	11.61	10.26	10.85	15.28	15.5	15.81	15.3
8.31	8.87	10.83	12.02	16.12	17.82	18.33	33.67	20.41	18.11
13.41	14.14	15.19	16.74	17.95	18.1	30.25	83.39	22.28	21.28
11.06	11.91	14.55	18.07	27.01	18.76	20.19	31.85	27.45	17.84
11.61	12.75	14.33	16.7	18.43	18.05	18.38	20	20.02	21.43
15.46	15.27	16.92	17.37	18.62	22.26	27.69	34.23	18.84	19.75
17.86	17.01	16.82	17.21	17.1	17.83	19.24	19.28	19.09	18.76
13.72	13.8	13.15	13.84	15.36	16.92	16.82	26.34	118.35	52.07
16.1	16.02	17.83	18.13	21.93	24.91	20.8	30.25	27.62	23.15

15.13	14.62	16.15	17.72	19.89	19.08	19.92	21.62	20.97	21.86
12.69	10.55	12.2	16.35	17.45	19.53	16.89	17.16	17.97	35.12
10.72	10.07	10.99	15.61	26.12	20.91	20.9	20.19	19.53	19.32
19.44	23.16	23.95	20.68	22.86	43.83	21.24	20.12	64.98	19.64
19.48	22.27	22.33	18.25	19.19	31.84	18.74	22.05	20.45	25.63
17.8	16.43	15.01	14.54	12.68	20.56	16.61	19.61	15	16.16
8.69	7.83	9.24	56.92	18.66	36.55	21.09	18.98	16.8	28.02
17.98	19.99	18.62	18.13	20.27	18.96	18.52	19.63	26.2	22.96
12.88	12.83	15.61	15.51	17.28	17.97	18.74	44.54	20.33	30.24
16.19	17.05	18.64	20.54	35.9	36.5	21.81	62.77	23.17	60.14
13.94	17.94	17.41	20.94	23	18.99	17.68	19.84	21.26	19.75
11.53	11.83	12.78	13.72	13.55	16.72	19.94	20.39	19.09	22.01
11.46	12.5	11.69	11.86	15.62	23.97	18.93	29.99	17.71	21.93
10.58	14.71	18.67	50.12	30.74	23.59	37.38	22.25	27.86	22.4
23.84	19.12	19.71	25.11	38.18	64.45	27.07	26.36	32.54	25.25
28.22	17.39	19.48	25.03	25.8	84.85	69.18	24.61	20.49	23.48
18.66	17.29	21.03	22.63	21.47	19.86	20.47	21.44	20.75	20.61
18.93	22.67	21.94	24.72	43.86	23.1	23.22	24.95	24.06	23.25
17.17	17.15	21.36	41.2	22.6	24.89	22.75	21	21.27	19.38
15.39	15.11	18.17	16.57	17.45	17.94	19.18	19.19	19.63	20.93
19.42	24.69	21.57	25.83	27.99	28.86	34.88	38.22	33.92	33.11
19.01	19.14	20.36	70.4	30.24	29.18	31.37	23.67	23.31	25.12
16.71	16.76	16.82	20.57	25.73	23.78	43.18	37.9	282.24	17.43
18.69	18.75	20.58	26.36	28.77	22.82	22.85	29.36	26.49	28.82
15.95	16.64	19.76	17.67	23.63	22.74	24.52	27.67	36.79	54.26
22.18	22.35	23.26	30.36	21.85	27.7	27.41	31.84	37.14	45.85
20.08	19.42	19.56	19.52	20.4	21.26	21.9	24.39	24.25	24.41
19.29	19.81	21.27	25.23	27.9	41.47	120.11	88.21	50.11	44.35
20.97	21.65	24.41	27.46	32.23	61.21	42.17	31.37	39.61	93.55
18.1	17.68	19.31	21.06	24.9	23.37	22.28	26	29.02	28.68
17.24	16.85	17.98	25.27	21.77	21.48	23.47	22.51	23.09	22.15
23.04	24.04	29.44	27.23	31.44	40.46	31.6	39.54	26.9	23.91
20.7	22.92	26.86	26.72	30.9	22.48	22.68	22.87	20.24	20.01
2.8	-2.79	3.78	6.22	15.93	15.15	16.91	15.14	18.47	17.91
20.58	21.83	24.72	24.47	25.46	47.36	31.18	28.95	34.92	46.15
25.91	25.72	27.46	28	40.91	42.51	25	25.07	32.82	34.12
21.02	24.63	28.9	32.46	36.81	32.98	27.92	22.63	27.17	29.49
21.4	23.12	20.65	28.01	25.64	22.98	25.9	24.14	24.3	27.3
16.96	20.05	17.66	19.31	22.74	22.08	21.74	23.81	22.28	25.73
5.26	6.12	10.64	14.91	14.48	17.28	19.25	18.33	18.8	18.92
-4.1	1.37	2.93	7.1	8.51	10.34	13.74	17.71	17.48	16.88
2.97	2.75	7.38	11.95	31.12	25.2	19.41	20.18	21.12	19.59
15.15	15.21	17.23	16.65	22.66	23	21.5	21.94	20.61	23.07
17.06	16.81	17.03	16.63	20.28	26.92	22.95	22.86	25.42	24.63
19.34	19.41	18.97	20.42	26.31	31.31	28.39	27.4	33.25	28.49
28.59	37.47	48.13	19.08	20.56	25.35	24.82	24.12	23.6	25.9
25.75	36.11	28.33	33.96	31.83	35.17	34.33	31.47	34.18	23.69

23.3	19.64	17.15	22	23.75	27.31	26.28	31.69	30.09	32.21
20.82	20.29	20.48	20.5	24.93	36.42	27.45	23.31	24.05	24.8
20.08	20.12	20.56	21.5	26.21	26.85	26.27	23.84	25.15	23.4
23.8	39.33	37.23	35.96	41.5	52.17	26.72	38.77	23.35	22.05
28.48	29.3	31.96	26.43	33.98	22.55	19.91	29.85	19.22	19.32
23.8	23.24	28.89	22.54	18.05	21.77	19.27	18.42	18.88	19.76
17.94	17.89	17.97	17.39	18.76	19.87	19.93	20.51	20.33	20.88
17.09	16.38	16.3	18.19	17.52	17.52	18.61	20.62	19.22	20.33
18.57	18.88	19.33	20.77	22.1	22.89	23.82	22.44	21.98	22.54
18.9	25.04	31.4	38.24	43.56	24.88	34.16	28.42	23.42	24.84
17.97	18.29	17.61	18.18	20.68	21.7	22.05	22.54	24.07	39.43
16.23	14.93	15.07	15.32	15.79	17.93	18.55	20.33	20.91	20.86
18.57	18.5	17.2	17.57	18.27	19.52	18.91	20.8	21.39	22.24
15.16	15.62	16.46	15.64	17.12	19.4	19.39	18.97	20.14	20.57
14.75	15.68	15.7	15.03	15.72	16.19	17.19	17.77	17.68	17.83
16.14	17.37	18.77	20.03	20.78	22.07	20.14	34.5	46.11	64.01
20.39	20.99	22.34	21.32	22.81	33.66	33.34	28.13	27.97	29.64
24.58	28.65	37.04	26.71	25.18	32.83	33.35	30.16	28.56	29.67
21.2	22.32	22.65	22.63	24.53	39.96	28.73	27.92	28.12	26.61
18.1	17.97	18.95	19.87	20.38	21.66	21.29	23.21	23.29	22.96
21.17	20.96	20.95	21.56	22.28	25.66	25.1	24.14	25.7	23.23
20.83	20.25	20.27	20.74	21	21.07	22.03	23.29	23.11	22.84
21.01	21.53	22.61	21.85	26.12	41.84	58.93	27.01	31.83	33.8
22.04	22.21	21.37	21.45	23	52.37	34.18	22.13	30.09	21.89
17.5	18.32	17.25	17.83	20.96	23.36	27.82	21.7	22.54	24.36
19.42	19.44	18.32	19.53	23.2	26.08	21.99	20.23	19.79	19.84
15.85	17.27	17.43	23.19	26.15	24.03	21.21	26.84	21.57	23.5
15.43	15.42	16.07	16.89	17.81	18.53	19.1	19.43	20.92	19.95
21.33	24.99	23.07	21.77	21.12	21.12	21.77	22.64	21.83	21.84
18.19	18.37	17.96	19.19	20.98	22.58	23.12	24.92	23.03	24
22.29	21.49	22.64	22.93	22.23	23.28	23.87	24.3	25.36	27.34
19.92	20.03	20.34	21.35	23.33	27.41	27.57	38.44	41.88	39.46
23.8	23.48	28.73	26.8	28.58	34.21	69.25	33.13	36.48	33.2
69.81	32.72	32.74	44.52	34.5	36.87	50.6	35.87	24.04	24.58
19	19.28	19.18	17.74	11.97	15.19	13.45	15.18	28.95	54.79
20.14	19.98	19.96	19.58	20.3	18.74	19.78	20.35	22.53	24.23
19.96	20.29	19.51	21.57	22.48	24.9	22.71	23.54	24.11	22.55
20.59	19.35	19.47	20.19	22.71	23.42	22.38	23.76	23.11	20.56
16.35	16.11	14.65	16.66	22.67	19.58	19.81	19.13	19.26	19.47
12.76	11.19	14.35	15.56	17.44	18.1	19.18	19.87	20.62	21.23
22.8	23.17	22.93	25.97	50.4	22.39	27.13	24.71	25.86	28.12
22.99	22.68	23.66	24.18	36.2	28.96	27.92	25.49	27.78	29.59
21.96	22.28	22.71	14.51	19.94	21.24	21.71	20.54	21.38	20.44
16.55	17.09	17.35	17.59	19.74	22.22	22.45	23.73	23.25	25.28
20.71	21.04	20.46	20.96	23.02	28.23	23.02	22.99	22.5	21.03
16.25	16.97	17.04	15.95	17.28	18.73	18.4	18.04	18.86	18.8
17.54	17.69	17.55	18.26	20.1	20.92	20.81	20.81	21.16	21.38

End Date
10/22/20
12/11/20
12/31/20

ed as 2/4/2020

HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22
18.45	21.43	17.87	18.8	20.69	24.86	19.73	22.82	21.36	23.33
21.25	21.93	21.79	21.56	22.93	34.68	37.01	22.73	21.72	25.42
27.29	26.87	26.82	25.59	88.92	25.73	25.59	25.93	25.41	23.92
22.4	20.59	20.28	20.83	20.56	22.44	22.61	20.77	21.66	20.52
20.12	17.52	16.69	18.43	18.82	31.14	22.02	20.09	25.84	24.58
22.7	21.43	20.23	20	22.48	47.94	23.26	24.33	24.09	21.04
20.31	20.52	17.1	18	20.41	41.19	21.43	23.17	20.78	21.35
24.04	24.82	23	23.07	23.77	31.71	38.54	29.22	24.71	32.51
21.87	20.65	20.14	20.19	21.07	21.58	20.83	22.21	20.06	19.68
22.45	22.1	21.25	20.45	20.01	20.16	20.44	20.31	18.96	18.75
41.82	35.44	80.83	24.15	19.65	25.26	47.44	174.68	28.72	46.55
20.84	20.75	20.2	19.71	20.4	25.87	23.67	24.43	26.94	21.53
29.08	30.17	23.77	22.42	22.79	26.45	27.28	28.91	37.72	22.71
21.67	21.9	21.27	21.96	28.87	39.55	33.18	22.52	24.85	21.79
23.47	21.87	20.45	19.91	20.05	23.06	21.16	21.66	20.63	19.67
22.72	21.71	21.06	21.13	20.94	21.17	23.86	22.42	23.49	22.9
22.58	22.9	22.28	22.24	22.07	22.95	23	22.53	21.54	22.56
21.01	20.39	19.93	19.39	19.88	22.66	23.73	21.45	20.74	20.36
20.6	20.29	20.78	21.43	22.18	26.28	35.88	24.52	26.96	24.43
23.34	23.26	22.22	22.23	22.82	25.9	25.03	25.54	23.75	22.44
21.96	21.74	20.97	21.75	26.97	28.59	29.43	26.46	23.17	22.46
19.26	18.76	18.74	18.77	19.83	20.57	23.73	21.38	20.93	20.32
28.25	21.33	20.17	20.07	20.52	23.41	21.09	21.62	20.34	19.68
48.31	20.25	117.81	22.7	23.58	33.66	29.38	24.92	24.57	20.95
19.98	19.51	19.19	19.75	19.84	21.35	22.92	22.98	21.38	20.97
19.13	18.95	18.66	19.09	20.61	25.1	21.73	32.97	22.25	21.6
26	23.61	23.16	23.17	23.18	24.13	24.42	24.17	23.2	69.3
25.09	23.91	22.79	22.29	22.9	25.21	27.07	25.34	46.51	24.14
21.22	22.27	20.99	21.19	21.14	24.85	24.82	25.26	23.32	23.85
21.38	20.94	20.47	20.01	20.21	20.93	22.59	21.5	21.47	20.78
22.19	22.1	21.55	21.95	23.11	23.18	22.44	21.06	20.69	20.53
18.34	17.28	17.14	16.96	17.43	18.41	20.05	18.4	17.77	19
13.86	13.65	13.45	14	15.47	18.02	18.92	17.18	15.96	15.71
17.68	19.61	17.72	17.56	17.33	19.53	21	19.31	18.43	17.36
19.04	18.09	17.94	18.4	20.19	21.36	23.15	20.94	21.11	19.64
21.82	21.22	21.05	20.67	35.64	24.74	93.36	23.33	22.11	22.59
24.43	21.34	20.83	20.49	20.63	21.41	37.3	22.14	24.15	20.82

21.18	20.68	20.55	20.58	20.29	21.17	21.93	22.09	21.51	20.77
20.99	21.29	21.35	20.72	20.59	21.43	22.17	22.32	20.5	20.16
18.12	18.02	18.94	18.42	18.66	19.56	48.42	19.54	18.73	18.71
36.13	23.54	20.97	21.49	21.78	23.29	71.98	36.45	23.32	23.12
21.07	19.96	18.84	18.9	19.09	20.32	26.37	23.19	20.86	28.43
21.86	23.35	21.32	29.98	29.24	20.65	23.38	22.9	21.12	19.97
20.02	19.93	19.87	19.89	20.49	20.83	21.04	20.86	20.63	20.57
20.16	19.78	19.59	19.27	19.63	19.75	21.24	22.22	27.21	26.24
18.56	16.89	16.59	17.11	18.07	21.88	20.49	20.97	20.84	19.91
16.57	15.78	16.49	15.48	15.57	17.1	19.87	19.8	18.06	17.98
21.22	21.95	21	19.2	19.17	19.14	19.99	20.93	20.37	18.51
20.14	19.17	18.62	18.23	19.31	19.41	27.03	23.73	23.16	19.83
21.33	20.05	19.41	19.68	20.44	21.52	49.87	27.36	28.41	21.06
25.54	22.32	22.34	20.71	21.19	22.17	26.49	24.62	23.25	37.24
19.53	18.09	17.48	18.05	16.96	19.75	19.61	20.06	20.71	20.12
17.79	17.03	15.49	14.81	16.32	17.94	18.67	21.41	19.01	16.34
17.24	16.6	15.61	15.62	16.7	17.6	19.62	19.89	19.32	18.47
21.38	22.22	21.24	19.68	19.19	19.94	21.25	20.34	22.41	19.35
18.62	18.21	17.38	17.87	19.82	20.04	19.68	19.11	19.24	18.6
20.82	20.43	19.87	19.66	20.21	21.1	24.3	25.8	23.3	23.76
24.89	20.11	21.03	20.12	38.9	23.17	101.94	149.92	27.99	21.17
20.48	22.34	26.4	20.88	21.6	23.45	51.42	22.72	66.91	72.17
18.34	17.11	15.63	14.54	14.52	18.55	21.95	22.43	23.36	23.44
14.32	12.88	11.91	11.58	12.16	14.37	20.52	18.98	18.72	16.7
20.63	20.98	19.92	19.48	18.89	19.65	21.38	22.35	20.03	18.58
20.05	18.96	18.05	18.64	17.77	19.48	60.34	29.08	49.31	20.04
21.39	19.9	18.88	17.65	17.32	18.13	20.27	21.18	20.27	19.19
19.49	19.11	17.2	15.83	19.85	20.19	24.46	25	20.45	22.7
23.75	20.19	24.68	19.31	40.52	21.5	19.3	19.59	19.01	19.12
16.78	15.74	20.1	18.72	18.81	21.67	39.68	19.91	20.67	23.36
20.18	23.4	27.21	23.35	25.88	21.21	27.23	21.39	17.93	22.23
18.43	18.54	18.08	18.12	18.71	18.93	19.82	20.83	20.41	17.8
28.85	63.29	19.6	26.51	38.28	22.79	22.07	35.29	19.12	23.91
22.29	24.85	20.57	20.46	20.03	20.14	20.46	20.97	19.65	18.59
20.37	19.71	20.22	18.89	19.13	19.84	19.78	19.79	18.96	16.26
18.65	19.33	19.29	19.54	20.57	21.53	23.08	54.47	21.4	21.58
21.72	21.94	22.61	20.75	22.7	21.16	27.77	21.72	30.48	24.52
23.23	20.27	20.92	21.14	24.07	34.22	22.11	30.93	21.33	21.86
23.16	21.76	20.92	20.38	20.54	21.11	20.84	20.91	20.7	20.01
20.9	20.32	19.77	18.83	18.48	18.85	20.15	20.41	19.33	18.65
99.74	23.88	32.08	23.07	22.39	28.91	19.2	19.66	21.46	19.76
19.62	19.17	18.69	17.7	17.02	16.37	16.52	16.19	13.55	15.15
16.05	16.33	15.54	15.73	16	17.35	18.54	19.78	20.15	17.57
17.89	17.37	17.48	17.42	18.77	18.16	18.53	19.52	18.62	17.91
17.66	17.83	17.36	18.52	21.11	23.91	19.04	20.76	18.3	17.46
20.84	20.2	20.07	18.96	19.44	19.77	19.29	18.73	18.01	17.48
18.49	18.72	17.39	17.65	18.07	17.52	17.32	17.09	15.03	14.42

19.61	18.88	18.37	17.27	24.39	18.5	18.27	17.84	16.89	15.95
17.88	19.43	19.78	18.14	18.51	19.18	18.39	18.48	17.9	15.39
18.4	17.85	16.83	16.42	17.12	16.44	16.23	18.05	17.51	15.23
16.92	16.81	20.32	16.24	17.97	16.72	16.29	16.74	12.24	11.17
14.39	13.21	14.1	14.93	13.37	14.43	16.58	61.46	15.43	13.5
19.17	18.35	17.07	16.87	17.82	18.26	17.21	18.98	17.34	16.5
28.44	20	19.3	17.92	18.04	18.73	18.15	16.84	15.42	17.06
17.88	17.53	17.15	17.13	17.95	18.13	18.14	19.78	16.82	16.85
17.3	16.56	14.18	15.86	16.69	16.67	17.52	25.61	18.7	16.97
22.3	21.29	17.66	18	19.28	18.64	18.07	19.71	17.29	16.62
17.31	17.78	16.7	16.09	17.22	19.79	18.27	20.79	19.57	16.54
15.99	15.33	15.71	17.07	16.31	17.65	17.31	16.85	14.74	14.75
18.54	17.68	16.74	16.74	17.19	17.5	16.99	26.78	39.24	19.07
21.01	19.87	18.65	18.31	18.04	19.62	19.17	34.77	20.62	20.92
29.47	30.91	37.04	30.95	20.13	59.54	54.21	36.58	17.5	12.85
19.62	26.39	34.36	19.82	21.25	22.86	20.09	29.94	20.72	19.43
15.4	16.06	16.67	16.84	17.02	16.01	22.84	92.98	18.74	19.31
18.21	18.43	17.88	18.64	20.39	19.34	18.75	19.81	18.94	18.44
19.85	17.93	18.83	17.17	17.68	17.23	17.73	18.96	16.99	17.41
18.75	16.84	16.76	15.58	16.82	16.81	16.57	17.92	38.54	18.99
16.8	16.43	16.34	16.12	17.5	19.25	18.54	21.79	54.28	19.64
18.84	19.16	17.76	17.34	17.76	18.13	18.53	29.22	19.89	19.33
18.34	17.68	16.89	17.01	17.43	17.24	17.12	17.77	18.03	16.38
17.96	17.26	17.4	18.02	17.22	17.02	16.88	29.47	20.98	15.52
14.65	12.81	12.04	12.13	12.5	14.52	15.98	15.83	15.19	14.36
17.68	15.91	15.54	15.73	17.59	18.1	18.95	21.29	21.17	27.12
18.99	16.7	16.73	18.65	18.05	20.39	16.95	19.43	13.41	14.99
36.88	17.37	20.46	15.9	53	23.69	109.03	19.94	19.65	18.42
17.96	16.79	17.51	18.03	17.07	17.08	17.29	18.07	17.79	18.6
20.7	24.96	19.44	20.09	19.62	23.52	18.16	17.19	18.86	16.96
19.1	18.56	18.76	17.79	19.28	19.11	18.64	18.92	19.92	18.3
17.71	19.01	21.98	19.5	18.63	17.48	23.28	18.42	19.51	31.57
15.96	15.89	15.4	16.47	16.71	16.65	17.2	18.02	18.78	17.91
18.25	17.91	19.01	19.61	20.18	19.42	19.32	20.49	18.67	16.83
19.24	17.76	18.3	18.3	16.24	16.28	16.2	17.62	15.8	14.26
16.54	16.05	15.67	15.87	17.09	16.48	15.93	15.65	17.1	16.11
17.53	17.73	18.43	17.61	42.77	19.91	20.47	18.84	21.3	16.63
18.41	17.29	17.1	17.22	18.79	18.95	16.11	15.03	15.92	13.43
16.93	21.41	32.48	22.71	17.55	10.27	25.39	24.98	42.23	18.21
22.01	18.28	16.75	15.07	19.87	16.41	17.5	16.95	17.08	14.22
23.43	30.15	48.42	23.74	21.14	23.17	20.05	23.45	23.06	17.56
25.76	19.08	21.48	20.2	22.5	20.25	20.21	22.16	21.27	20.34
28.8	20.97	19.68	19.52	19.31	20.15	20.34	20.93	21.31	18.15
18.5	18.79	18.18	17.14	17.67	17.9	16.92	17.65	18.4	17.44
16.88	16.05	14.4	14.15	14.73	16.1	16.53	16.81	22.81	18.76
18.33	16.05	16.17	17.3	17.39	17.69	20.82	21.25	26.62	16.53
26.23	24.25	18.44	17.24	18.45	16.9	16.7	17.49	25.35	17.68

20.65	21.14	21.94	21.61	22.79	26.38	20.18	21.86	24.09	18.26
32.54	19.18	18.9	19.67	20.83	20.34	19.87	20.9	22.33	18.91
18.35	17.5	15.82	17.55	18.72	23.13	19.68	19.26	18.32	16.4
18.79	18.66	18.2	18.61	18.93	20.49	18.57	18.1	20.21	17.32
19.34	19.08	20.72	18.85	19.75	19.43	21.31	17.9	19.45	24.05
19.23	17.84	17.67	18.89	26.9	53.87	19.69	18.47	18.1	16.72
17.87	17.01	17.33	15.55	19.12	17.92	16.51	16.61	17.38	15.38
26.42	25.23	19.9	22.53	21.06	23.25	23.97	17.85	19.14	17.71
21.77	19.58	18.67	18.27	19.46	22.18	19.49	17.73	17.14	16.91
18.88	17.51	16.54	16.87	18.12	18.28	18.46	17.65	18.01	17.13
19.44	27.94	17.74	18.51	19.18	18.97	19.65	19.73	20.95	19.43
20.41	19.64	19.45	19.36	18.63	18.48	19.15	17.74	18.31	15.62
28.66	24.24	24.38	21.08	33.18	22.45	20.28	17.26	19.06	17.02
18.01	19.4	18.82	20.08	25.46	28.33	27.39	19.03	21.07	22.85
50.58	45.89	38.81	72.24	92.65	77.89	29.11	19.89	43.2	19.22
94.25	41.09	46.38	29.6	31.77	72.83	28.4	23.09	26.13	19.39
26.8	32.93	28.04	25.69	23.76	21.52	20.71	20.04	21.43	19.47
22.17	24.54	47.75	22.14	22.98	21.62	19.19	18.75	18.59	17.97
34.8	24.75	26.28	30.37	30.48	27.86	24.69	18.61	19.48	19.19
19.73	21.21	21.18	25.67	28.09	29.83	19.59	18.06	18.41	17.6
18.2	16.7	16.31	16.35	17.17	17.13	16.91	16.45	15.98	14.95
17.6	17.42	17.48	17.95	20.95	19.18	18.28	18.23	18.61	16.37
20.9	21.52	23.52	25.41	26.75	30.51	24.19	20.24	22.18	19.61
32.24	28.47	32.4	35.91	166.97	37.66	25.94	25.2	24.46	19.98
26.77	26.84	27.13	26.66	24.26	22.84	21.15	19.95	19.32	34.09
23.99	24.93	26.24	25.96	25.94	24.04	22.1	20.6	21.95	25.32
25.28	23.49	45.51	52.5	54.07	62.51	56.22	23.35	19.57	17.75
18.08	18.53	20.18	22.43	21.21	26.34	21.84	20	19.01	17.39
22.29	21.21	21.83	21.99	24.1	22.38	21.55	20.5	20.03	18.89
20.16	27.86	25.85	26.14	23.6	29.99	21.88	20.54	19.85	19.47
144.73	96.42	73.06	37.48	27.77	26.61	17.48	16.7	18.22	17.07
18.04	18.14	18.43	18.7	20.06	19.42	19.11	19.52	19.91	21.87
21.52	21.78	21.93	38.43	35.9	32.79	22.24	19.25	17.95	16.83
18.09	49.3	41.72	39.83	56.26	58.04	25.19	17.77	17.07	15.19
16.08	16.18	16.6	17.68	18.64	18.59	19.07	16.49	16.92	15.94
21.59	20.55	20.91	20.42	21.44	20.7	19.84	19.24	19.4	18.4
22.6	22.01	20.71	20.99	20.96	26.33	20.61	21.41	24.65	16.38
20.57	22.28	22.17	22.32	21.95	24.14	21.2	19.43	32.91	15.82
22.03	23.12	24.21	25.44	24.06	25.06	23.35	19.19	19.78	19.25
26.84	22.8	21.64	21.86	22.16	21.04	22.42	22.72	20.58	19.42
21.67	20.87	20.38	20.66	20.86	20.59	20.02	22.11	20.15	19.18
20.65	19.88	19.72	18	17.63	18.99	18.93	22.36	18.19	17.18
25.33	49.99	23.44	22.62	21.68	21.43	24.08	20.65	23.46	18.59
20.18	20.53	20.27	19.76	20.32	19.65	19.07	18.65	32.97	18.83
22.08	21.54	48.75	53.48	36.54	66.34	29.23	37.4	20.71	19.52
46.1	25.73	29.53	35.32	52.27	23.8	36.15	58.19	22.9	19.49
23.41	25.81	34.42	30.05	33.58	37.16	27.71	48.36	31	22.14

21.32	23.19	36.17	26.13	46.86	67.3	21.4	20.2	19.7	17.76
25.48	45.19	34.54	25.18	34.72	27.5	25.86	19.96	19.82	18.49
28.49	26.16	25.08	25.67	24.51	25.58	27.12	21.71	22.16	18.96
26.95	22.14	23.11	24	24.41	22.88	21.25	20.39	20.6	19.95
22.5	24.09	25.2	26.02	26.58	26.44	24.7	22.72	21.87	20.13
24.81	25.09	26.04	29.13	29.43	26.49	26.23	21.7	20.88	20.71
24.3	27.62	28.94	68.51	40.13	28.14	23.33	25.54	22.24	20.55
39.19	33.68	26.58	29.07	29.18	24.83	21.29	19.87	19.89	18.58
27.71	28.7	25.4	56.38	55.94	67.51	47.04	23.24	29.86	23.06
42.35	57.39	50.92	70.45	56.04	52.35	46.58	27.26	27.09	22.24
33.8	43.09	51.18	48.72	51.04	208.99	39.06	34.75	23.29	22.13
31.06	31.07	29.01	24.63	27.87	29.12	27.83	27.96	22	21.35
87.37	115.15	63.18	60.68	71.5	61.58	30.73	27.25	25.47	21.16
27.81	27.01	26.48	26.99	27.85	29.83	24.9	25.58	23.73	20.77
30.53	31.52	47.64	34.53	26.91	45.71	23.98	42.96	20.95	19.95
22.8	24.91	26.65	43.27	35.81	42.26	40.84	28.81	20.05	18.9
42.63	25.75	25.55	30.67	27.72	24	27.99	47.84	21.79	21.5
47.01	27.27	26.21	29.86	28.39	28.77	27.12	23.83	25.2	20.38
80.79	23.89	27.93	29.24	26.94	28.94	23.63	22.9	99.32	21.14
21.22	26.3	22.7	24.89	25.73	24.24	22.26	20.9	20.84	20.05
26.85	24.82	24.63	28.29	42.67	27.1	34.88	59.97	23.04	19.81
22.3	21.52	23.77	53.05	82.09	35.46	24.87	38.99	21.47	20.75
19.13	18.76	17.27	19.51	22.2	20.81	21.03	19.4	19.3	18.79
24.41	24.83	21.22	19.84	21.11	20.75	20.33	19.8	19.61	19.07
36.69	39.57	29.67	23.78	39.45	29.08	29.49	21.36	46.6	20.43
53.4	124.83	39.11	83.31	33.97	47.25	28.04	26.23	33.67	21.06
41.49	46.55	63.6	76.98	40.61	24.95	24.08	22.14	20.15	18.83
27.03	30.64	32.01	43.52	40.64	34.92	47.74	25.92	21.99	20.98
27.56	25.16	27.81	43.43	55.47	36.47	30.83	76.74	23.09	22.37
23.08	24.68	30.07	31.2	59.82	33.31	27.73	31.54	101.93	82.7
40.02	50.95	36.47	28.21	24.62	37.57	26.19	24.06	21.64	23.47
26.08	25.11	28.34	34.87	41.22	154.08	29.08	24.92	75.62	21.05
106.63	38.93	39.69	33.92	64.51	34.7	35.23	24.02	35.2	21.72
23.01	24.78	25.8	25.31	24.29	21.38	20.91	19.69	19.7	19.2
24.62	30.62	26.54	24.24	23.03	20.4	19.48	22.83	61.79	19.81
21.01	21.09	20.93	21.19	21.87	19.6	19.32	19.35	19.17	18.08
30.39	23.81	26.83	31.27	40.47	23.34	22.01	21.24	54.76	18.26
65.43	42.28	34.93	29.5	22.4	21.91	21.27	19.7	19.76	18.73
26.68	23.26	23.44	32.54	27.15	22.13	20.97	19.71	19.31	17.72
43.66	28.9	69.41	48.36	36.01	23.61	22.17	21.81	21.19	19.86
24.85	24.45	28.21	27.04	25.51	28.96	21.71	21.53	20.68	19.08
23.43	28.32	60.61	30.69	53.94	30.86	24.82	24.14	21.73	20.57
26.38	23.87	22.9	25.04	26.84	25.66	23.83	22.18	20.73	18.68
22.13	22.82	23.54	26.6	24.59	23.43	23.48	22.16	22.07	20.71
121.24	50.54	43.32	48.35	72.69	27.9	22.56	21.11	20.75	19.74
31.56	29.57	38.32	38.41	34.28	36.33	25.42	22.2	22.32	22.17
23.71	26.51	29.16	50	35.69	46.28	42.32	22.52	23.84	20.86

48.18	31.81	35.37	100.89	84.93	125.53	23.8	23.85	25.6	20.27
25.21	25.7	24.87	25.15	27.64	23.82	21.66	33.81	21.32	20.48
36.36	33.21	97.08	72.35	87.68	38.13	26.66	22.64	33.51	21.51
21.5	22.58	23.8	26.56	72.06	39.66	25.49	22.53	22.14	19.07
22.98	22.8	25.16	24.12	24.03	25.03	23.83	23.56	22.84	20.71
23.76	25.45	24.43	50.98	29.46	23.25	27.76	22.19	22.16	19.22
21	23.67	22.69	24.22	28.34	25.88	24.65	22.02	19.91	17.82
25.61	29.29	30.53	211.76	41.07	37.08	30.74	22.88	21.9	19.23
37.34	36.5	30.2	35.84	32.78	33.46	33.35	22.86	21.65	20.72
28.22	30.16	63.56	45.96	40.32	61.32	66.56	41.26	41.45	21.19
28.76	29.79	42.7	62.35	75.91	44.6	33.09	27.83	55	22.35
47.66	48.13	35.72	36.13	42.33	40.14	48.12	26.93	25.25	21.88
31.81	28.99	29.09	32.53	33.22	30.97	26.6	23.53	26.31	22.89
28.83	27.26	30.24	27.77	35	31.3	31.27	26.16	22.74	20.51
35.51	57.57	30.19	64.02	29.38	26.67	31.52	26.92	27.35	25.09
24.33	23.25	27.29	38.86	25.49	22.14	24.9	25.02	22.58	20.53
22.59	22.57	22.49	23.78	23.05	22.73	22.96	20.39	19.69	18.38
20.91	20.67	20.94	21.32	24.49	23	21.72	20.47	18.77	17.35
22.5	21.17	24.86	26.69	26.57	28.34	24.14	23.34	22.58	19.54
33.48	32.42	32.76	29.78	22.49	21.48	21.05	23.08	21.02	20.04
24.19	23.59	22.48	22.43	22.2	21.65	21.45	22.76	20.83	18.65
24.05	34.31	44.29	51.95	38.92	33.86	26.86	31.26	30.35	19.48
20.78	22.13	21.32	21.2	22.02	21.85	21.46	21.24	19.07	17.75
19.93	20.24	20.66	21.15	21.26	20.83	19.92	19.01	17.53	16.5
26.07	18.53	18.4	19.8	20.43	21.09	20.09	18.48	16.48	15.72
84.21	24.22	22.47	33.67	33.54	36.07	21.35	23.77	21.3	18.41
73.55	35.56	23.61	28.2	46.39	25.15	22.57	29.69	21.42	20.33
57.86	59.4	82.32	29.91	30.27	33.92	25.7	25.24	22.25	21.27
23.52	22.05	24.35	36.55	32.7	25.5	23.35	22.52	20.36	19.82
21.62	24.1	23.93	23.19	23.23	22.69	21.22	23.04	20.67	19.97
28.69	46.18	37.07	26.14	31.59	21.55	21.66	24.34	21.74	20.16
22.91	25.57	25.28	33.32	60.79	25.76	22.5	22.88	21.3	18.42
21.78	23.58	25.17	27.82	28	21.08	20.6	23.08	17.87	18.4
20.37	20.18	20.5	20.58	20.25	20.39	20.39	19.42	18.31	15.95
18.99	19.12	20.41	23.93	21.47	20.53	20.5	25.1	18.51	18.62
27.6	22.49	26.74	22.56	22.91	21.92	20.41	19.5	18.42	17.01
19.48	19.4	18.96	19.53	19.51	18.45	18.42	17.79	15.93	37.44
14.61	14.45	13.33	15.28	15.33	16.04	16.43	17.46	13.77	11.92
14.87	14.46	14.97	15.71	15.57	16.78	17.56	18.38	14	11.58
18.37	25.01	19.22	20.74	29.54	21.05	30.85	20.89	18.46	16.06
13.78	18.3	18.27	18.61	20.32	19.82	31.52	15.7	16.84	15.74
17.95	17.34	18.11	18.55	18.51	18.87	22.85	29.74	17.69	16.29
24.84	23.19	25.03	23.7	24.56	28.38	23.11	26.27	17.82	17.89
20.13	20.27	20.77	22.04	23.83	22.12	29.77	25.18	24.68	19.56
19.3	20.15	20.11	21.32	22.67	20.48	21.09	21.59	19.68	18.44
61.85	52.38	23.58	25.74	25.14	23.86	23.49	25.21	21.31	20.17
22.4	20.89	20.35	20.38	21.55	19.56	23.72	48.65	20.3	19.54

30.04	25.99	22.52	20.96	18.86	20.47	21.12	21.65	17.58	17.57
44.91	27.72	25.35	29.15	17.8	16.87	20.37	20.42	19.27	15.85
21.35	19.07	19.58	20.46	21.25	20.78	24.72	76.63	20.26	18.87
21.05	25.58	19.32	20.08	20.02	20.5	21.86	19.62	18.86	18.83
18.49	22.48	17.51	19.46	26.14	19.76	19.51	19.39	18.74	17.68
13.97	13.58	13.64	15.08	14.79	16.07	15.82	14.72	13	9.63
37.41	16.26	16.49	31.82	28.13	32.16	36.94	22.97	19.38	17.17
18.86	18.79	20.47	25.23	20.38	23.54	20.13	18.71	16.69	15
33.26	36.68	39.17	59.04	48.52	71.99	98.21	22.93	20.31	23.59
39.75	22.94	26.23	23.73	35.16	23.8	21.5	17.29	17	24.49
20.34	19.88	17.53	17.26	19.63	20.45	21.05	20.69	17.49	16.31
19.21	21.57	25.42	32.04	27.33	21.66	38.53	18.06	17.98	17.67
21.18	21.98	39.08	26.6	40.35	46.17	21.87	22.08	24.23	16.8
23.81	29.36	27.49	45.91	28.83	51.25	30.04	18.56	19.27	16.17
22.88	20.74	20.14	21.64	22.32	23.34	104.02	24.43	22.69	18.94
24.03	21.81	22.38	24.63	21.51	22.68	25.46	24.04	20.37	21.37
20.85	19.66	21.64	20.59	21.91	20.62	23.71	21.37	21.35	20.81
23.81	23.44	21.81	19.77	21.21	23.94	141.68	24.73	31.34	19.86
19.11	18.08	19.72	18.86	18.9	22.33	60.3	18.19	20.93	19.74
19.95	22.02	21.48	22.19	22.13	32.18	74.92	26.03	26.53	24.8
38.85	44.65	32.71	37.23	33.74	33.67	32.57	30.86	27.5	32.77
27.54	29.6	28.35	35.51	25.48	72.76	25.8	25.43	21.8	19.89
24.3	30.3	29.83	30.75	30.33	41.27	38.93	30.56	26.46	23.85
35.23	43.52	56.28	40.31	31.74	27.85	31.37	33.66	23.88	24.15
21.24	19.45	14.45	23.39	19.76	10.17	12.07	20.68	16.65	20.21
33.47	23.38	27.63	23.65	24.15	24.74	28.33	24.63	23.44	22.15
23.85	22.37	21.58	21.96	22.71	24.47	27.83	27.14	25.31	22.33
40.35	30.94	28.56	35.12	47.67	23.84	39.84	28.2	29.16	49.79
45.39	32.46	31.34	29.64	31.23	33.55	42.26	25.83	22.92	20.86
27.01	25.88	23.68	25.14	28.94	28.79	28.28	25.88	22.33	21.19
24.6	25.4	24.39	24.99	42.59	31.36	59.66	29.11	27.67	22.98
23.81	22.05	21.08	20.01	19.68	20.77	23.85	24.08	22.65	23.61
20.48	18.91	18.66	17.67	18.53	18.24	19.28	17.18	13.2	10.04
25.88	18.64	21.25	18.36	30.91	55.65	80.21	33.05	35.86	40.36
42.07	31.45	26.52	26.18	39.67	75.77	51.52	44.91	41.76	42.67
30.91	26.86	28.98	28.09	35.55	33.57	31.91	30.69	22.27	25.27
26.76	22.97	20.37	24.01	22.96	22.34	22.09	22.96	23.88	21.2
28.42	61.13	26.11	44.47	24.42	23.95	26.07	23.26	20.25	19.46
23.22	20.82	20.05	22	22.14	21.89	19.45	17.95	18.12	17.11
18.21	18.3	17.81	17.84	19.9	20.21	20.97	16.33	16.49	14.42
18.24	18.05	18	18.98	20.33	19.48	18.83	16.72	16.88	16.16
22.48	18.81	20.81	22.17	21.39	30.8	41.93	21.29	19.47	18.29
21.24	25.66	26.03	22.34	22.83	19.56	20.86	20.03	19.41	19.89
21.81	19.96	19.58	19.7	21.44	30.12	43.78	26.02	23.32	21.48
24.93	22.41	21.1	19.2	21.54	26.01	27.66	21.57	24.82	22.26
23.68	21.53	20.52	20.18	21.65	28.27	22.66	23.73	22.26	22.17
31.54	22.82	21.16	22.87	32.37	24.97	23.38	24.05	24.85	30.39

28.4	22.87	36.22	28.15	33.63	39.61	27.78	25.35	20.13	18.48
22.07	19.87	19.41	18.9	21.84	43.6	28.74	34.28	27.69	31.91
23.43	23.06	21.82	20.22	21.7	27.54	27.42	26.07	23.55	21.03
40.71	21.69	20.1	27.98	35.78	34.54	22.16	31.39	24.52	21.67
21.5	20.96	20.94	19.94	20.51	26.02	29.15	19.18	18.76	19.2
20.94	19.74	19	18.99	20.8	23.28	20.46	16.53	21.4	19.61
23.41	20.82	20.78	20.71	23.63	27.12	22.02	20.45	19.68	19.31
20.08	19.04	17.48	17.51	20.18	26.08	22.7	20.75	19.84	19.68
21.44	20.29	21.3	20.76	22.29	30.66	26.85	27.18	22.51	19.88
29.4	27.17	46.03	25.09	22.34	34.79	25.87	24.61	24.03	21.26
24.3	22.82	24.01	23.21	24.37	26.11	22.32	20.98	20.68	20
28.06	21.39	19.49	19.7	19.86	20.3	21.2	19.41	18.72	19.71
20.61	19.44	18.81	18.82	20.45	31.09	22.7	19.56	19.48	18.14
19.4	17.48	17.19	16.81	18.71	19.85	19.15	17.22	18.81	18.75
18.43	17.12	17	17.48	18.83	24.88	21.86	21.07	19.75	18.15
40.72	23.07	22.55	23.13	24.5	31.21	28.89	24.38	24.7	22.18
26.35	24.25	22.53	22.51	24.2	28.07	29.15	29.88	29.51	36.79
28.98	25.97	24.47	23.44	23.93	38.52	28.02	28.68	29.04	26.61
24.12	21.84	22.3	20.15	23.72	28.05	24.98	23.03	21.32	20.07
23.47	22.91	21.75	20.33	20.83	23.97	26.25	25.59	22.49	22.52
22.01	20.46	19.61	19.65	20.38	28.55	24.07	27.78	22.22	21.38
23.42	22.79	21.46	21.16	22.16	27.87	26.81	26.42	23.43	23.43
49.72	30.73	23.89	23.69	23.1	26.43	28.76	26.02	31.48	26.08
22.7	20.72	19.67	18.93	20.27	21.49	21.68	20.44	20.95	19.47
22.4	20	20.58	21.14	21.37	25.91	26.13	24.2	23.64	23.04
18.76	18.17	18.44	18.78	19.42	325.1	22.15	20.57	18.89	18.37
22.51	59.99	17.99	18.02	19.78	26.25	22.86	22.14	21.86	22.07
20.38	20.51	19.8	20.01	21.07	51.65	28.45	22.75	24.11	24.18
22.25	22.02	21.78	21.22	22.23	26.99	27.95	24.23	23.89	22.94
24.78	25.82	23.45	23.41	26.13	30.56	35.39	35.4	30	28.93
26.55	26.82	28.88	28.36	46.77	27.26	26.77	26.28	25.47	24.05
31.39	28.48	26.73	27.14	31.51	29.3	29.32	31.56	29.79	32.26
28.86	29.17	28.13	27.04	26.9	35.18	31.86	55.19	82.64	76.04
23.69	23.94	27.33	23.66	23.41	30.46	26.87	25.65	23.8	23.72
24.41	23.16	22.31	22.8	23.22	28.26	24.97	23.13	23.87	22.58
22.32	22.37	21.27	20.72	20.65	23.23	23.22	22.29	20.55	22.67
21.67	21.19	19.94	19.48	19.81	23.5	23.88	22.03	21	21.5
19.35	19.05	18.76	18.02	18.53	20.44	22.61	21.65	20.51	20.26
18.97	17.77	17.68	18.31	18.85	22.6	20.83	20.09	19.4	19.11
19.8	27.86	19.03	20.19	23.22	25.22	26.6	21.7	22.08	24.44
23.43	22.28	20.93	20.56	20.66	26.04	29.24	26.12	26.16	27.67
24.69	22.67	25.86	23.6	25.52	28.52	28.15	24.62	23.2	23.11
19.7	19.7	19.07	17.96	18.11	18.27	19.93	19.34	18.62	18.22
23.88	22.37	21.79	21.41	22.47	31.15	29.02	25.74	25.67	24.93
20.94	19.7	19.29	19.61	20.91	24.03	22.49	22.33	21.47	20.96
18.86	18.73	18.28	17.84	18.11	19.68	20.96	21.14	20.82	20.45
21.93	21.18	21.16	21.33	21.28	23.49	24.35	23.11	20.57	20.34

HE23	HE24
21.09	25.3
20.69	19.9
22.41	21.61
20.84	20.3
17.01	21.72
21.01	23.16
20.26	19.82
20.21	27.03
19.24	18.61
15.8	15.48
220.99	34.57
20.81	19.95
21.07	21.92
22.73	21.89
18.98	17.33
20.68	20.37
24.84	21.16
19.24	17.55
23.09	21.31
21.73	20.95
20.24	17.69
19.67	19.89
19.28	18.07
21.96	20.53
20.32	19.34
21.45	20.89
21.39	21.8
68.81	20.64
21.41	20.6
19.96	18.79
19.39	17.97
24.89	20.02
14.82	14.03
15.98	15.01
18.53	17.6
20.51	20.04
19.82	18.91

19.97	19.06
19.11	18.7
17.17	16.31
19.72	18.39
18.64	18.34
18.7	16.9
20.9	20.13
22.23	21.68
19.5	18.73
16.92	15.57
16.46	15.01
18.95	18.25
19.78	19.47
21.06	19.42
18.91	17.97
16.98	24.25
17.46	16.31
17.72	18.28
16.86	15.85
21.48	20.7
20.51	20.88
21.76	20.89
30.13	26.73
14.42	13.14
17.2	16.14
18.68	16.89
17.93	17.84
22.91	22.14
19.66	18.37
22.45	43.18
-1.32	15.39
17.71	16.68
19	19.33
17.33	17.36
12.77	15.97
19.28	19.38
20.81	20.49
20.17	20.27
19.81	18.27
18.11	18.48
19.66	18.96
11.57	11.01
18.33	20.29
14.94	15.01
17.06	18.29
15.84	16.06
15.83	20.39

12.98	12.58
14.22	14.13
13.81	14.12
10.23	7.97
12.77	11.38
14.92	15.78
16.22	17.28
14.35	11.85
15.2	15.25
16.64	14.94
17.46	14.45
13.73	14.48
10.61	10.52
17.72	17.09
15.88	14.64
16.85	14.7
16.86	19.44
17.45	16.11
16.02	16.36
21.5	22.72
21.23	45.56
17.8	18.84
15.66	15.51
14.85	17.33
12.51	12.66
17.43	17.83
13.38	13.84
17.1	15.8
16.17	14.4
16.56	16.38
17.24	18.35
41.51	20.58
16.72	17.67
17.44	18.48
11.02	11.27
14.38	12.94
17.34	15.87
12.76	16.59
15.7	15.88
12.68	10.22
17.48	17.06
26.97	19.21
16.35	16.68
15.75	11.36
64.08	35.8
14	6.74
16.83	15.34

16.76	17.24
16.68	16.1
14.4	14.07
15.27	15.74
16.64	18.32
12.33	14.53
11.48	14.77
16.57	16.07
16.07	15.96
16.28	16.63
19.76	17.64
15.04	15.51
16.72	14.99
17.66	63.38
29.52	15.59
66.48	21.43
17.61	16.61
15.72	14.23
15.72	14.7
16	15.95
22.54	19.11
16.29	14.96
17.53	18.03
17.52	17.49
16.78	15.79
16.79	15.52
13.02	13.71
13.99	14.58
18.02	16.93
18.25	18.45
14.13	13.34
16.03	16.35
16.43	15.41
13.69	12.59
12.75	12.97
16.04	16.38
24.7	15.44
15.66	13.91
18.79	18.46
17.9	17.29
15.93	16.13
15.78	16.48
17.14	15.99
15.78	15.62
17.2	16.58
19	15.79
19.2	18.37

17.03	16.24
17.58	14.05
19.29	16.53
18.41	17.82
19.79	18.27
17.66	17.25
19.18	18.76
18.68	19.58
20.97	20.14
27.85	20.78
23.61	21.87
21.1	18.45
21.97	18.04
18.71	18.11
18.6	17.7
18.24	16.96
19.62	17.41
19.1	18.6
18.54	17.92
18.21	16.9
17.15	17.88
19.53	20
18.12	16.19
18.3	17.03
18.05	26.33
21.19	20.32
17.38	16.59
28.22	19.13
19.64	19.66
19.99	19.92
18.73	18.73
312.46	18.75
34.8	19.35
18.04	17.12
17.53	18.03
16.83	16.97
16.98	16.11
17.91	16.23
16.48	15.27
18.37	17.17
18.02	17.65
18.94	19.17
20.27	19.96
20.47	19.3
18.92	18.17
20.35	19.09
20.09	18.94

19.83	20.42
19	19.36
20.63	19.77
18.2	17.69
19.14	18.4
18.53	17.68
16.85	17.28
18.35	18.31
20.04	19.75
20.32	20.1
21.11	20.08
22.38	20.51
21.5	20.81
20.06	19.42
22.11	21.88
18.26	18.16
16.52	16.63
16.4	15.61
18.39	18.31
21.94	17.48
17.61	19.03
18.64	16.83
16.22	15.93
17.12	15.16
13.18	14.24
18.75	17.47
19.32	18.61
19.79	19.23
18.33	18.47
18.98	18.99
18.55	17.84
17.26	17.31
16.57	15.45
15.92	14.77
16.73	16.09
16.35	14.56
23.85	12
11.89	10.86
12.02	10.53
16.41	15.47
15.59	15.29
15.61	15.49
16.48	15.82
18.53	18.56
16.57	15.53
18.87	17.22
17.68	17.94

17.4	17.45
15.17	15.06
17.57	18.18
18.12	18.52
24.94	28.86
8.27	7.83
18.92	19.21
13.83	14.04
19.22	20.82
16.77	19.03
13.91	15.45
13.16	16.58
17.26	16.62
16.12	17.52
20.09	17.48
18.57	18.64
17.84	17.86
18.51	19.11
17.85	17.82
27.79	21.28
25.05	21.84
18.81	19.48
22.21	20.86
19.65	16.89
21.36	22.03
24.46	21.9
20.47	19.1
31.97	28.89
19.4	18.8
20.76	19.17
23.74	23.48
21.46	22.66
6.69	2.34
26.73	24.97
38.64	39.38
37.42	40.31
23.43	29.93
19.17	18.13
18.42	15.36
12.99	11.66
13.36	15.76
17.93	18.04
19.1	19.04
19.83	22.05
20.98	21.08
22.26	21.25
30.59	23.5

20.96	21.59
24.81	23.75
21.38	22.43
37.07	38.43
19.15	23.39
19.36	22.19
17.89	18.22
28.86	19.16
20	19.73
20.84	20.81
18.59	19.36
18.57	19.68
16.56	17.04
16	16.18
18.18	17.48
21.98	21.49
24.58	24.11
21.76	22.24
19.12	18.57
21.6	22.78
20.25	19.74
21.84	19.5
24.54	25.39
18.52	18.09
20.64	19.62
18.21	18.12
19.75	17.62
23.72	22.61
19.84	19.64
43.26	25.12
21.83	21.41
24.85	26.96
28.29	40.4
21.63	19.91
22.59	20.73
21.07	19.94
22.07	22.34
19.37	17.84
18.06	16.78
24.55	133.06
23.13	20.84
21.81	20.67
17.94	18.15
23.05	22.81
19.96	19.05
19.78	19.49
19.55	19.39