



Supplement of

Pesticide transport through the vadose zone under sugarcane in the Wet Tropics, Australia

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Supplementary data

Table S1.: the pesticide and their residues in monitoring boreholes surrounding the catchment

Herbicides in water	Health value	Units	Reporting Limit	Monitoring Bores (RN...)					
				11210004	11210029	11210032	11210041	11210051	11210056
Glyphosate	1000	µg/L	0.70	<	<	<	<	<	<
Fluroxypyr		µg/L	0.01	<	<	<	<	<	<
Imazapic		µg/L	0.01	<	<	<	<	<	0.70
Imidacloprid		µg/L	0.02	<	<	0.60	<	0.08	<
Isoxaflutole metabolite (DKN)		µg/L	0.02	<	<	<	<	<	<
Metolachlor	300	µg/L	0.005	<	<	<	<	<	<
Haloxyfop	1	µg/L	0.02	<	<	<	<	<	<

Table S2.: the pesticide and their residues in vadose water through the vadose zone (November 2017)

Herbicides in water	Health value	Units	Reporting Limit	Vadose zone, VSP								
				1.15m	1.56m	1.97m	2.46m	2.87m	3.28m	3.69m	4.00m	
Glyphosate	1000	µg/L	0.70	<	<	<	<	<	<	<	<	<
Fluroxypyr		µg/L	0.01	<	<	<	<	<	<	<	<	<
Imazapic		µg/L	0.01	<	<	<	<	<	<	<	<	<
Imidacloprid		µg/L	0.02	0.11	0.09	0.06	0.02	<	<	0.03	0.02	
Isoxaflutole metabolite (DKN)		µg/L	0.02	<	<	<	<	<	<	<	<	<
Metolachlor	300	µg/L	0.005	<	<	<	<	<	<	<	<	<
Haloxyfop	1	µg/L	0.02	<	<	<	<	<	<	<	<	<

Table S3.: the pesticide and their residues in vadose water through the vadose zone (January 2018)

Herbicides in water	Health value	Units	Reporting Limit	Vadose zone, VSP								
				1.15m	1.56m	1.97m	2.46m	2.87m	3.28m	3.69m	4.00m	
Glyphosate	1000	µg/L	0.70	<	<	<	<	<	<	<	<	<
Fluroxypyr		µg/L	0.01	4.7	0.90	0.58	0.18	0.14		<	<	<
Imazapic		µg/L	0.01	<	<	<	<	<	<	<	<	<
Imidacloprid		µg/L	0.02	0.07	0.04	<	<	<	<	<	<	<
Isoxaflutole metabolite (DKN)		µg/L	0.02	<	<	<	<	<	<	<	<	<
Metolachlor	300	µg/L	0.005	<	<	<	<	<	<	<	<	<
Haloxyfop	1	µg/L	0.02	<	<	<	<	<	<	<	<	<

Table S4: the pesticide and their residues in vadose water through the vadose zone (May 2018)

Herbicides in water	Health value	Units	Reporting Limit	Vadose zone, VSP								
				1.15m	1.56m	1.97m	2.46m	2.87m	3.28m	3.69m	4.00m	
Glyphosate	1000	µg/L	0.70	<	<	<	<	<	<	<	<	<
Fluroxypyr		µg/L	0.01	0.07			<			<	<	<
Imazapic		µg/L	0.01	<	<	<	<	<	<	<	<	<
Imidacloprid		µg/L	0.02	0.04	0.02	0.06		0.02				
Isoxaflutole metabolite (DKN)		µg/L	0.02	<	<	<	<	<	<	<	<	<
Metolachlor	300	µg/L	0.005	<	<	<	<	<	<	<	<	<
Haloxyfop	1	µg/L	0.02	<	<	<	<	<	<	<	<	<

Table S5.: the pesticide and their residues in vadose water through the vadose zone (November 2018)

Herbicides in water	Health value	Units	Reporting Limit	Vadose zone, VSP								
				1.15m	1.56m	1.97m	2.46m	2.87m	3.28m	3.69m	4.00m	
Glyphosate	1000	µg/L	0.70	<	<	<	<	<	<	<	<	<
Fluroxypyr		µg/L	0.01	<	<	<	<	<	<	<	<	<
Imazapic		µg/L	0.01	<	<	<	<	<	<	<	<	<
Imidacloprid		µg/L	0.02	0.03	<	<	<	<	<	<	<	<
Isoxaflutole metabolite (DKN)		µg/L	0.02	<	2.2	<	2.2	<	1.4	<	<	<
Metolachlor	300	µg/L	0.005	<	<	<	<	<	<	<	<	<
Haloxyfop	1	µg/L	0.02	<	<	<	<	<	<	<	<	<

Table S6.: the pesticide and their residues in vadose water through the vadose zone (December 2019)

Herbicides in water	Health value	Units	Reporting Limit	Vadose zone, VSP								
				1.15m	1.56m	1.97m	2.46m	2.87m	3.28m	3.69m	4.00m	
Glyphosate	1000	µg/L	0.70	<	<	<	<	<	<	<	<	<
Fluroxypyr		µg/L	0.01	<	<	<	<	<	<	<	<	<
Hexazinone	400	µg/L	0.01	<	<	<	<	<	<	<	<	<
Imazapic		µg/L	0.01	<	<	<	<	<	<	<	<	<
Imidacloprid		µg/L	0.02	<	<	<	<	<	<	<	<	<
Isoxaflutole metabolite (DKN)		µg/L	0.02	<	0.02	<	<	<	<	<	<	<
Metolachlor	300	µg/L	0.005	<	<	<	<	<	<	<	<	<
Haloxyfop	1	µg/L	0.02	<	<	<	<	<	<	<	<	<

Table S7.: the pesticide and their residues in the monitoring bores at the site

Herbicides in water	Health value	Units	Reporting Limit	November, 2017		January, 2018		May, 2018		November, 2018		December 2019	
				183021	183022	183021	183022	183021	183022	183021	183022	183021	183022
Glyphosate	1000	µg/L	0.70	<	<	<	<	<	<	<	<	<	<
Fluroxypyr		µg/L	0.01	<	<	<	<	<	<	<	<	<	<
Hexazinone	400	µg/L	0.01	<	<	<	<	<	<	<	<	<	<
Imazapic		µg/L	0.01	<	<	<	<	<	<	<	<	<	<
Imadacloprid		µg/L	0.02	<	<	<	<	<	<	<	<	<	<
Isoxaflutole metabolite (DKN)		µg/L	0.02	<	<	<	<	<	<	<	<	<	<
Metolachlor	300	µg/L	0.005	<	<	<	<	<	<	<	<	<	<
Haloxypop	1	µg/L	0.02	<	<	<	<	<	<	<	<	<	<

Table S8.: the pesticide and their residues in soil (September and November 2018)

Herbicides in water	Health value	Units	Reporting Limit	September, 2018			November, 2018		
				25 cm	35 cm	50 cm	25 cm	35 cm	50 cm
Glyphosate	1000	mg/Kg	0.70	<	<	<	<	<	<
Fluroxypyr		mg/Kg	0.01	<	<	<	<	<	<
Hexazinone	400	mg/Kg	0.01	<	<	<	<	<	<
Imazapic		mg/Kg	0.01	<	<	<	<	<	<
Imadacloprid		mg/Kg	0.02	<	<	<	<	<	<
Isoxaflutole metabolite (DKN)		mg/Kg	0.02	<	<	<	<	<	<
Metolachlor	300	mg/Kg	0.005	<	<	<	<	<	<
Haloxypop		mg/Kg	0.001	<	<	<	<	<	<

Table S9.: the pesticide and their residues soil (November and December 2019)

Herbicides in water	Health value	Units	Reporting Limit	November 2019			December 2019		
				25 cm	35 cm	50 cm	25 cm	35 cm	50 cm
Glyphosate	1000	mg/Kg	0.70	<	<	<	<	<	<
Fluroxypyr		mg/Kg	0.01	<	<	<	<	<	<
Hexazinone	400	mg/Kg	0.01	<	<	<	<	<	<
Imazapic		mg/Kg	0.01	<	<	<	<	<	<
Imadacloprid		mg/Kg	0.02	0.004	0.010	<	0.012	<	<
Isoxaflutole metabolite (DKN)		mg/Kg	0.02	<	<	<	<	<	<
Metolachlor	300	mg/Kg	0.005	<	<	<	<	<	<
Haloxypop		mg/Kg	0.001	<	<	<	0.004	0.010	0.002

Table S10.: Water content

Date	0.74 m	1.15 m	1.56 m	1.97 m	2.46 m	2.87 m	3.28 m	3.69 m	Rainfall. Mm/day
1/07/2017									12.6
2/07/2017									19.6
3/07/2017									26.6
4/07/2017									2.4
5/07/2017									0
6/07/2017									0
7/07/2017									0
8/07/2017									0
9/07/2017									0
10/07/2017									2.4
11/07/2017									0.2
12/07/2017									0.6
13/07/2017									1.2
14/07/2017	41.53	40.04	52.44	39.90	31.48	32.55	44.94	42.62	2.4
15/07/2017	41.00	40.16	51.60	40.19	31.25	34.61	45.13	42.59	1.6
16/07/2017	39.00	40.66	51.29	40.86	31.55	35.32	45.51	42.70	0.4
17/07/2017	35.75	40.67	51.47	41.61	32.03	35.45	45.73	42.77	0
18/07/2017	34.34	40.74	51.59	41.96	32.62	35.63	45.75	42.74	0
19/07/2017	33.58	40.62	51.67	42.06	33.06	35.79	45.78	42.78	0
20/07/2017	32.95	40.45	51.78	42.14	33.35	35.96	45.84	42.81	0
21/07/2017	32.51	40.51	51.80	42.26	35.05	36.08	45.90	42.90	0
22/07/2017	32.02	40.55	51.74	42.42	35.65	36.29	46.02	43.00	0
23/07/2017	31.70	40.71	51.70	42.48	35.70	36.47	46.08	43.05	0
24/07/2017	31.16	40.85	51.76	42.60	35.76	36.66	46.18	43.06	0
25/07/2017	30.77	40.92	51.88	42.64	35.87	36.80	46.20	43.16	4.8
26/07/2017	30.43	40.93	51.91	42.83	35.95	36.99	46.24	43.17	0.6
27/07/2017	30.02	40.85	52.06	42.93	36.04	37.13	46.31	43.26	0.4
28/07/2017	29.64	41.20	52.06	43.10	36.16	37.37	46.40	43.19	1.4
29/07/2017	29.16	41.71	52.17	42.95	36.13	37.47	46.46	43.29	0
30/07/2017	28.65	41.65	52.16	43.05	35.68	37.64	46.49	43.32	0
31/07/2017	28.22	41.85	52.22	43.12	35.86	37.72	46.53	43.45	0.2
1/08/2017	28.03	41.90	52.21	43.17	35.95	37.90	46.56	43.39	0.2
2/08/2017	27.81	41.96	52.41	43.18	36.01	37.99	46.62	43.47	1.4
3/08/2017	27.46	42.04	52.34	43.28	35.99	38.20	46.67	43.48	0.2
4/08/2017	27.04	42.03	52.53	43.37	35.98	38.22	46.63	43.62	3.6
5/08/2017	27.06	42.10	52.47	43.49	36.05	38.38	46.63	43.66	6.2
6/08/2017	27.29	42.20	52.45	43.55	36.12	38.51	46.59	43.75	1.4
7/08/2017	27.42	42.34	52.61	43.47	36.31	38.67	46.69	43.77	0
8/08/2017	27.04	42.14	52.57	43.70	36.32	38.89	46.87	43.70	0
9/08/2017	26.96	42.13	52.72	43.74	36.44	39.00	46.91	43.75	1.4
10/08/2017	26.87	42.17	52.75	43.78	36.54	39.14	46.92	43.77	0
11/08/2017	26.70	42.12	52.78	43.83	36.59	39.28	46.94	43.83	0
12/08/2017	26.46	42.05	52.87	43.82	36.12	39.29	47.00	43.94	0

13/08/2017	26.37	42.03	52.82	43.91	36.07	39.43	47.03	43.85	0.2
14/08/2017	26.21	42.07	52.91	43.89	36.17	39.47	47.07	43.93	1
15/08/2017	26.09	42.10	52.92	43.36	36.32	39.53	47.11	43.95	0
16/08/2017	25.98	42.04	52.96	43.33	36.50	39.55	47.17	43.99	0
17/08/2017	25.83	42.00	53.03	43.46	36.60	39.58	47.16	44.03	0
18/08/2017	25.67	42.04	53.04	43.59	36.55	39.64	47.19	44.04	0
19/08/2017	25.50	42.21	53.06	43.63	36.60	39.67	47.22	44.10	0
20/08/2017	25.33	42.18	53.13	43.66	36.59	39.68	47.25	44.10	0
21/08/2017	25.11	42.16	53.19	43.72	36.69	39.69	47.31	44.19	0
22/08/2017	24.98	42.10	53.16	43.79	36.50	39.76	47.32	44.13	0.2
23/08/2017	24.83	41.90	53.20	43.79	36.15	39.77	47.35	44.22	0
24/08/2017	24.68	41.54	53.23	43.80	36.16	39.79	47.34	44.23	0
25/08/2017	24.53	41.15	53.24	43.80	36.16	39.81	47.39	44.28	0
26/08/2017	24.34	40.27	53.32	43.78	36.08	39.78	47.43	44.40	0
27/08/2017	24.24	40.45	53.31	43.81	36.05	39.83	47.46	44.32	0
28/08/2017	24.08	39.14	53.35	43.81	35.98	39.83	47.48	44.34	0
29/08/2017	23.92	32.24	53.40	43.82	35.98	39.84	47.50	44.34	0
30/08/2017	23.78	31.59	53.42	43.84	35.93	39.85	47.50	44.37	0
31/08/2017	23.60	31.44	53.46	43.87	35.96	39.84	47.56	44.40	0.6
1/09/2017	23.37	31.38	53.54	43.84	36.09	39.82	47.57	44.42	0.2
2/09/2017	23.08	31.27	53.49	43.88	35.95	39.79	47.60	44.52	0.4
3/09/2017	22.89	30.89	53.51	43.91	35.94	39.83	47.61	44.44	0.2
4/09/2017	22.57	30.28	53.55	43.91	35.88	39.80	47.60	44.45	0
5/09/2017	22.25	30.15	53.49	43.94	35.87	39.78	47.61	44.46	0
6/09/2017	22.02	29.78	53.50	43.91	35.72	39.74	47.63	44.49	0
7/09/2017	21.84	29.47	53.51	43.91	35.81	39.72	47.65	44.52	0
8/09/2017	21.63	29.20	53.58	43.90	35.88	39.66	47.66	44.51	0
9/09/2017	21.41	29.12	53.59	43.90	35.74	39.64	47.68	44.55	0.2
10/09/2017	21.17	29.01	53.60	43.86	35.54	39.61	47.67	44.54	0
11/09/2017	20.89	28.83	53.71	43.81	35.26	39.57	47.68	44.56	0
12/09/2017	20.69	28.68	53.64	43.83	34.78	39.22	47.74	44.60	0
13/09/2017	20.58	28.59	53.46	43.78	34.83	39.17	47.72	44.57	0
14/09/2017	20.34	28.49	53.15	44.62	35.89	39.16	47.69	44.55	0
15/09/2017	20.05	28.22	53.17	44.66	35.83	39.13	47.73	44.63	0
16/09/2017	19.82	27.82	53.17	44.69	35.75	39.13	47.73	44.60	0
17/09/2017	19.56	27.24	53.17	44.67	35.67	39.02	47.76	44.58	0
18/09/2017	19.32	26.98	53.21	44.63	35.43	38.82	47.76	44.65	10.6
19/09/2017	39.87	40.93	54.06	44.85	37.46	38.36	47.65	44.78	158.4
20/09/2017	46.49	42.83	54.85	45.94	38.63	38.56	47.83	44.73	2.4
21/09/2017	46.30	42.81	54.38	45.53	38.80	37.55	47.86	44.74	0
22/09/2017	45.79	42.82	54.31	44.97	37.25	35.46	47.84	44.82	0
23/09/2017	46.81	42.83	54.34	44.68	37.59	34.93	47.80	44.82	0
24/09/2017	46.95	42.91	54.33	44.75	37.34	35.00	47.79	44.87	0
25/09/2017	47.02	42.93	54.33	44.81	36.72	35.00	47.79	44.87	0
26/09/2017	47.11	42.94	54.36	44.87	35.93	35.03	47.77	44.88	0
27/09/2017	47.15	42.90	54.38	44.99	35.81	35.03	47.81	44.87	0

28/09/2017	45.78	42.82	54.40	44.93	35.89	35.07	47.80	44.86	0
29/09/2017	35.78	42.76	54.37	44.71	37.53	35.16	47.79	44.87	0
30/09/2017	29.71	42.68	54.36	44.76	38.65	35.19	47.80	44.88	0
1/10/2017	27.94	42.63	54.41	44.99	39.23	35.15	47.79	44.90	0
2/10/2017	26.69	42.54	54.48	45.31	38.94	35.12	47.82	44.92	0
3/10/2017	25.78	42.41	54.47	45.34	38.79	35.16	47.80	44.92	0.2
4/10/2017	25.23	42.30	54.47	45.27	39.13	35.16	47.83	44.88	0
5/10/2017	24.80	42.14	54.53	45.20	39.25	35.13	47.84	44.92	0
6/10/2017	24.45	40.35	54.58	45.18	38.90	35.12	47.82	44.95	0
7/10/2017	24.20	38.67	54.61	45.18	38.61	35.10	47.80	44.94	0
8/10/2017	23.98	37.18	54.57	45.18	38.35	35.08	47.83	44.91	0
9/10/2017	23.73	36.26	54.57	45.17	38.43	35.03	47.84	44.95	0
10/10/2017	23.49	35.81	54.50	45.17	38.26	35.04	47.83	44.96	0
11/10/2017	23.26	35.63	54.49	45.15	38.08	34.96	47.85	44.98	0
12/10/2017	22.98	35.29	54.53	45.10	38.14	34.96	47.87	44.97	0
13/10/2017	22.75	33.24	54.47	45.10	38.34	34.94	47.87	44.99	0
14/10/2017	22.53	31.99	54.50	44.61	38.00	34.92	47.89	44.98	0
15/10/2017	23.16	32.33	54.54	44.02	38.33	34.87	47.91	44.99	53
16/10/2017	47.04	41.53	54.77	44.70	43.09	35.43	47.95	45.09	21.4
17/10/2017	47.49	41.61	54.90	44.96	44.95	35.23	47.91	45.17	13.8
18/10/2017	48.20	41.97	55.00	45.36	45.10	35.98	47.84	45.20	212.2
19/10/2017	48.73	43.04	54.48	46.27	42.72	37.00	47.94	45.09	82.6
20/10/2017	48.45	42.89	54.82	45.92	41.10	36.25	47.92	45.20	11.8
21/10/2017	48.37	42.04	55.07	45.70	41.45	35.72	48.14	45.36	5.8
22/10/2017	48.45	42.00	55.09	45.80	41.07	35.91	48.16	45.45	15.6
23/10/2017	48.53	41.88	55.15	45.91	40.94	36.13	48.18	45.35	0
24/10/2017	48.58	41.67	55.18	45.84	41.14	36.12	48.23	45.32	0
25/10/2017	48.56	41.54	55.16	45.89	40.84	36.13	48.19	45.32	0
26/10/2017	48.50	41.51	55.14	45.92	40.54	36.14	48.20	45.33	0
27/10/2017	48.40	41.49	55.14	45.92	40.32	36.16	48.22	45.36	0
28/10/2017	48.36	41.46	55.18	45.91	40.07	36.16	48.22	45.38	0
29/10/2017	46.06	41.35	55.23	45.86	39.98	36.14	48.28	45.34	0
30/10/2017	37.04	41.23	55.21	45.76	39.97	36.10	48.26	45.35	0
31/10/2017	30.09	41.08	55.25	45.67	39.81	36.07	48.23	45.39	0
1/11/2017	28.04	40.91	55.22	45.65	39.64	36.03	48.23	45.37	0
2/11/2017	27.10	40.28	55.20	44.93	39.75	34.79	48.21	45.41	0
3/11/2017	26.53	39.74	55.30	44.94	39.45	33.62	48.11	45.41	0
4/11/2017	26.20	39.58	55.32	45.00	39.34	33.56	48.14	45.45	0
5/11/2017	25.89	39.51	55.34	44.93	39.11	33.48	48.17	45.44	0
6/11/2017	25.71	39.36	55.32	44.86	39.07	33.34	48.15	45.43	0
7/11/2017	25.59	39.22	55.30	44.75	39.12	33.33	48.16	45.44	0
8/11/2017	25.49	39.15	55.19	44.68	38.75	33.52	48.19	45.48	0
9/11/2017	36.87	39.40	55.31	44.98	37.08	36.84	48.12	45.45	52.2
10/11/2017	48.80	39.98	55.49	45.75	33.38	38.55	48.07	45.59	2
11/11/2017	48.77	39.94	55.46	45.08	33.14	38.28	48.01	45.65	3.6
12/11/2017	48.70	39.77	55.37	45.63	37.69	37.79	47.98	45.72	5

13/11/2017	48.89	39.82	55.46	46.07	40.73	37.77	47.95	45.65	4.6
14/11/2017	49.11	39.84	55.55	46.02	41.78	37.63	47.94	45.78	2.8
15/11/2017	48.98	39.58	55.46	45.86	39.74	38.17	47.97	45.83	0.8
16/11/2017	48.96	39.41	55.49	45.69	39.07	38.67	47.99	45.68	1.4
17/11/2017	49.00	39.31	55.46	45.52	39.07	38.62	47.97	45.77	0.8
18/11/2017	49.10	39.19	55.50	45.50	38.94	38.61	47.96	45.84	0
19/11/2017	49.13	39.15	55.47	45.50	38.87	38.73	48.00	45.76	0
20/11/2017	49.23	39.15	55.57	45.70	40.90	38.77	48.02	45.85	0
21/11/2017	49.47	39.29	55.79	46.01	43.01	39.10	48.07	45.91	146.4
22/11/2017	49.57	39.31	55.90	46.10	43.36	39.12	48.07	46.02	15.6
23/11/2017	50.35	39.29	55.77	46.35	43.05	39.36	48.17	45.99	0.2
24/11/2017	51.39	39.26	55.82	46.30	42.67	39.31	48.08	45.97	10
25/11/2017	51.57	39.27	55.85	46.49	42.24	39.53	48.12	46.09	3.6
26/11/2017	50.56	39.19	55.73	46.13	41.98	39.47	48.09	46.01	0
27/11/2017	49.85	38.74	55.78	45.75	39.65	39.14	48.17	46.07	0
28/11/2017	49.92	39.13	55.82	46.48	39.46	39.11	48.12	46.15	10.6
29/11/2017	49.98	39.24	55.90	45.97	38.10	37.58	48.06	46.09	0.4
30/11/2017	50.03	39.30	55.76	46.24	38.31	34.28	48.08	46.11	24.4
1/12/2017	50.06	39.06	55.84	45.67	36.14	36.29	48.09	46.12	0.2
2/12/2017	50.12	38.90	55.77	44.95	37.87	37.69	48.08	46.10	0.6
3/12/2017	50.03	38.86	55.76	44.87	37.77	37.58	47.98	46.16	3.6
4/12/2017	50.20	38.58	55.71	45.05	37.30	36.69	48.17	46.14	2.6
5/12/2017	50.12	38.18	55.72	45.48	36.88	36.74	48.02	46.12	0
6/12/2017	50.18	37.99	55.68	45.44	36.63	36.74	47.95	46.10	0
7/12/2017	50.18	37.70	55.73	45.44	36.59	36.57	48.06	46.22	0
8/12/2017	50.12	37.82	55.82	45.31	36.63	36.25	48.03	46.10	0
9/12/2017	48.85	38.04	55.79	45.22	36.87	36.08	48.07	46.19	0
10/12/2017	40.61	37.70	55.85	44.96	36.70	36.06	48.04	46.20	0
11/12/2017	32.12	37.30	55.76	44.44	36.53	36.25	48.06	46.20	0
12/12/2017	29.73	37.09	55.76	43.99	36.53	36.39	48.11	46.13	0.2
13/12/2017	28.51	37.17	55.53	44.04	38.07	37.21	47.93	46.22	2.4
14/12/2017	27.57	36.97	55.04	44.33	39.96	38.49	47.97	46.34	0
15/12/2017	27.06	36.90	55.20	44.38	39.95	35.67	48.02	46.23	0
16/12/2017	26.64	36.90	55.22	44.36	40.13	35.85	47.94	46.33	3.6
17/12/2017	26.24	36.97	55.23	43.68	40.18	36.05	47.95	46.20	1.2
18/12/2017	25.92	37.01	55.23	43.56	39.91	36.15	47.96	46.23	0
19/12/2017	25.73	36.41	55.29	43.28	39.58	36.52	47.94	46.23	0
20/12/2017	25.50	35.49	55.11	43.32	39.33	36.54	47.93	46.30	0
21/12/2017	25.30	35.51	55.08	43.69	39.10	36.84	47.80	46.41	3.6
22/12/2017	25.02	35.66	55.02	43.80	38.67	37.14	47.75	46.33	0
23/12/2017	24.87	35.62	55.11	43.59	38.47	37.25	47.78	46.30	0
24/12/2017	24.72	35.56	55.13	43.43	38.18	37.15	47.88	46.35	0
25/12/2017	24.50	35.53	55.09	43.34	37.95	37.16	47.91	46.39	0
26/12/2017	24.33	35.40	55.09	43.04	37.78	36.97	47.86	46.24	0
27/12/2017	24.15	35.38	55.13	42.87	37.47	36.97	47.92	46.33	0
28/12/2017	23.96	35.35	55.21	42.90	37.34	36.98	47.93	46.46	0

29/12/2017	23.75	35.66	55.18	44.01	37.13	37.34	47.92	46.37	0
30/12/2017	23.51	35.49	55.19	43.90	36.73	37.15	47.99	46.31	0
31/12/2017	23.29	35.42	55.18	43.73	36.61	37.18	47.89	46.33	0
1/01/2018	23.10	35.20	55.25	43.69	37.41	37.24	47.90	46.41	0
2/01/2018	22.90	35.23	55.18	43.05	37.59	37.04	47.96	46.36	0
3/01/2018	22.62	33.95	55.13	41.83	37.72	37.22	47.92	46.43	0.8
4/01/2018	22.25	32.99	55.23	42.21	37.77	37.67	47.89	46.32	10.2
5/01/2018	22.20	34.14	55.38	42.60	37.54	37.33	47.85	46.54	10.7
6/01/2018	25.95	37.25	55.78	42.90	33.77	37.36	47.92	46.34	32.5
7/01/2018	24.59	37.44	55.83	42.92	38.33	37.14	47.98	46.56	5.7
8/01/2018	24.07	37.25	55.83	43.46	38.44	37.17	48.06	46.52	3.7
9/01/2018	23.76	37.44	55.96	43.77	37.89	37.21	48.06	46.58	1.4
10/01/2018	23.54	35.97	55.77	43.51	39.08	38.25	48.07	46.56	1.4
11/01/2018	23.65	36.08	55.34	43.86	40.21	39.66	48.11	46.58	12.8
12/01/2018	24.26	36.94	55.32	43.98	39.84	39.45	47.88	46.76	5.1
13/01/2018	24.45	37.05	55.35	43.71	39.51	39.36	47.61	46.86	0
14/01/2018	24.14	36.98	55.46	43.82	38.86	39.13	47.69	46.89	0
15/01/2018	23.92	36.45	55.64	43.85	38.70	38.83	47.71	46.98	0.7
16/01/2018	49.63	38.09	56.01	45.24	44.75	39.51	47.69	47.03	48.3
17/01/2018	51.83	38.75	56.00	46.01	46.17	39.76	47.69	47.13	111.9
18/01/2018	51.90	38.82	55.87	46.04	46.27	40.85	47.78	47.19	84.3
19/01/2018	52.41	38.77	55.90	45.86	46.30	41.34	48.01	47.17	2
20/01/2018	52.14	38.44	56.19	45.60	46.23	41.30	48.91	47.18	1.5
21/01/2018	51.26	38.23	57.26	45.38	46.79	41.02	49.02	47.30	0.1
22/01/2018	50.91	38.04	57.29	45.50	46.57	41.11	48.81	47.22	0.4
23/01/2018	51.62	38.55	57.31	45.55	46.42	41.34	48.73	47.12	24.2
24/01/2018	52.10	38.97	56.92	45.70	46.44	41.15	48.33	47.06	61.3
25/01/2018	52.17	39.27	56.53	45.34	46.08	41.85	48.33	46.94	28.7
26/01/2018	52.34	38.90	56.80	45.34	46.02	41.60	48.17	46.98	38.4
27/01/2018	52.61	38.45	57.84	45.64	46.61	41.51	48.50	47.24	6.5
28/01/2018	52.31	37.99	57.76	45.32	46.36	41.51	49.02	47.27	2.1
29/01/2018	52.10	37.91	56.86	44.76	45.49	41.39	48.99	47.22	0.1
30/01/2018	51.34	37.88	57.32	45.59	45.90	41.23	48.85	47.28	0.8
31/01/2018	51.33	38.15	56.51	44.87	44.91	41.41	48.71	47.26	0
1/02/2018	50.23	37.67	56.61	44.51	44.60	41.00	48.46	47.31	0
2/02/2018	37.77	37.47	56.37	44.32	43.34	41.02	48.73	47.41	0
3/02/2018	29.09	37.28	55.85	44.19	42.61	40.80	48.58	47.32	0
4/02/2018	44.87	37.69	55.72	44.82	43.26	40.93	48.20	47.34	79
5/02/2018	53.42	38.44	57.01	45.50	45.00	41.63	49.51	47.47	313.3
6/02/2018	53.24	39.40	57.27	45.78	45.17	41.82	48.44	47.34	20.3
7/02/2018	53.31	39.48	57.14	45.37	44.43	41.64	48.44	47.33	6
8/02/2018	53.18	39.57	57.04	44.83	43.81	42.01	48.51	47.16	8.6
9/02/2018	53.41	39.26	57.19	44.97	43.75	42.30	48.42	47.19	3.9
10/02/2018	53.38	38.49	57.99	45.25	44.11	41.87	49.26	47.55	9.9
11/02/2018	52.97	37.99	57.18	44.65	42.89	41.58	49.00	47.45	0
12/02/2018	53.13	37.92	56.76	44.89	42.60	41.86	48.76	47.54	0

13/02/2018	52.46	37.75	56.77	44.64	41.82	41.44	48.71	47.51	0
14/02/2018	49.60	37.61	56.23	44.54	41.39	40.65	48.93	47.53	0
15/02/2018	36.90	37.45	56.07	44.35	41.35	41.32	48.31	47.49	0
16/02/2018	29.49	37.25	56.08	44.75	40.43	41.60	48.12	47.45	0
17/02/2018	27.92	37.12	56.34	44.50	40.29	41.43	48.40	47.54	6.4
18/02/2018	27.05	37.00	56.67	44.23	40.12	41.38	48.40	47.61	0.1
19/02/2018	26.40	36.92	55.79	44.26	40.01	41.45	48.12	47.56	0
20/02/2018	26.19	36.76	55.65	44.20	39.77	41.20	48.05	47.56	0
21/02/2018	30.17	36.94	55.71	44.28	39.66	40.88	48.03	47.55	49
22/02/2018	53.68	38.58	56.25	45.43	40.70	41.92	48.11	47.60	18.5
23/02/2018	54.04	38.48	56.28	45.29	40.46	41.59	48.21	47.68	4.7
24/02/2018	53.94	38.43	56.22	45.04	40.51	41.63	48.24	47.73	10.2
25/02/2018	54.40	38.51	56.16	45.14	41.08	42.00	48.42	47.77	47.5
26/02/2018	54.53	38.44	56.15	44.74	41.16	42.11	48.60	47.77	5.6
27/02/2018	54.56	38.32	56.18	44.46	41.05	42.27	48.62	47.85	13
28/02/2018	54.46	38.23	56.80	44.53	41.14	42.34	49.80	47.82	4.2
1/03/2018	54.04	38.29	58.25	45.46	43.14	41.68	48.99	47.87	17.8
2/03/2018									1.6
3/03/2018									0.1
4/03/2018									9.6
5/03/2018									0.5
6/03/2018									49.3
7/03/2018									127.4
8/03/2018									138
9/03/2018									35.6
10/03/2018									9.2
11/03/2018									24.3
12/03/2018									0.5
13/03/2018									2.6
14/03/2018									0.1
15/03/2018									0
16/03/2018									0
17/03/2018									0.8
18/03/2018									16
19/03/2018									20.2
20/03/2018									0.3
21/03/2018									12.4
22/03/2018									33
23/03/2018									6
24/03/2018									52.9
25/03/2018									15.6
26/03/2018									43.6
27/03/2018									236.9
28/03/2018									86.5
29/03/2018									0.4
30/03/2018									0

31/03/2018									0.2
1/04/2018									0.5
2/04/2018									10.9
3/04/2018									0.2
4/04/2018									6.5
5/04/2018									11.3
6/04/2018									2.5
7/04/2018									4.2
8/04/2018									1.6
9/04/2018									8.9
10/04/2018									1.3
11/04/2018									6.5
12/04/2018									1
13/04/2018									16.5
14/04/2018									0.4
15/04/2018									8.2
16/04/2018									55.8
17/04/2018									0.5
18/04/2018									7.7
19/04/2018									0
20/04/2018									3.7
21/04/2018									0.3
22/04/2018									0
23/04/2018									17
24/04/2018									0.3
25/04/2018									0
26/04/2018									0
27/04/2018									0
28/04/2018									7
29/04/2018									7.3
30/04/2018									8.4
1/05/2018									33.4
2/05/2018									12.4
3/05/2018									2.3
4/05/2018									0.1
5/05/2018									0.1
6/05/2018									2.2
7/05/2018									3.2
8/05/2018									25.4
9/05/2018									0.9
10/05/2018									0
11/05/2018	54.71	38.57	58.19	46.52	39.83	41.70	50.00	47.18	0
12/05/2018	54.96	38.44	58.02	46.65	39.77	41.69	49.82	47.18	0.1
13/05/2018	55.74	38.39	58.00	46.59	39.64	41.60	49.81	47.13	0
14/05/2018	54.99	38.28	57.96	46.60	39.55	41.50	49.86	47.15	0
15/05/2018	45.00	38.12	57.93	46.38	39.46	41.39	49.86	47.16	0.1

16/05/2018	34.52	37.94	57.88	46.19	39.27	41.21	49.92	47.10	2.5
17/05/2018	51.59	38.27	57.99	46.17	39.77	41.28	49.86	47.31	29.1
18/05/2018	55.04	38.77	58.14	46.56	43.19	41.39	49.94	47.31	1.5
19/05/2018	54.74	38.77	58.21	46.67	43.98	41.45	49.95	47.37	12.2
20/05/2018	54.96	38.91	58.25	46.98	45.15	41.51	50.01	47.39	21.5
21/05/2018	54.99	38.96	58.26	47.05	45.38	41.54	50.02	47.39	0.4
22/05/2018	54.97	38.91	58.23	47.15	45.41	41.55	49.95	47.39	4.5
23/05/2018	54.84	38.71	58.24	47.00	45.31	41.51	50.02	47.37	0
24/05/2018	54.80	38.41	58.24	46.83	44.97	41.43	50.01	47.29	0.9
25/05/2018	54.93	38.30	58.25	46.71	44.73	41.44	50.04	47.35	5
26/05/2018	55.78	38.31	58.25	46.81	44.58	41.45	50.07	47.35	5.8
27/05/2018	55.83	38.28	58.31	46.81	44.55	41.46	50.11	47.37	14.4
28/05/2018	55.85	38.54	58.30	47.16	45.02	41.54	50.17	47.43	2.6
29/05/2018	55.23	38.52	58.27	47.26	45.32	41.55	50.21	47.43	14.6
30/05/2018	55.37	38.61	58.25	47.47	45.52	41.65	50.20	47.54	1.6
31/05/2018	55.18	38.48	58.26	47.30	45.49	41.60	50.23	47.53	0.1
1/06/2018	55.07	38.20	58.24	47.25	45.23	41.56	50.21	47.50	0
2/06/2018	55.01	38.11	58.22	47.17	44.92	41.53	50.21	47.47	0
3/06/2018	54.86	37.92	58.19	47.07	44.70	41.42	50.25	47.44	0
4/06/2018	54.68	37.78	58.20	46.98	44.34	41.38	50.25	47.52	0
5/06/2018	48.38	37.53	58.24	47.03	44.08	41.26	50.31	47.44	0
6/06/2018	37.62	37.36	58.21	46.99	43.97	40.80	50.32	47.48	0.1
7/06/2018	32.63	37.97	58.17	46.91	43.83	40.70	50.37	47.50	0
8/06/2018	30.65	37.85	58.16	46.84	43.47	40.63	50.33	47.42	0.5
9/06/2018	30.17	37.86	58.19	46.74	43.00	40.52	50.38	47.44	8.1
10/06/2018	40.18	38.03	58.19	46.74	42.57	40.43	50.42	47.48	0.2
11/06/2018	33.19	37.94	58.21	46.72	42.03	40.46	50.35	47.53	0
12/06/2018	30.53	37.88	58.28	46.77	42.24	40.41	50.43	47.47	0
13/06/2018	29.80	37.79	58.26	46.73	41.80	40.34	50.45	47.47	0
14/06/2018	29.14	37.76	58.22	46.77	41.61	40.31	50.49	47.47	0.1
15/06/2018	28.31	37.84	58.21	46.63	41.74	40.26	50.52	47.52	0
16/06/2018	27.87	37.77	58.10	46.48	41.89	40.15	50.52	47.55	0
17/06/2018	27.55	37.78	58.01	46.18	41.58	40.24	50.54	47.51	0
18/06/2018	27.37	37.79	58.05	45.92	41.52	40.39	50.62	47.50	0
19/06/2018	27.16	37.82	58.04	46.00	41.24	40.26	50.60	47.53	0
20/06/2018	26.96	37.69	58.05	45.95	41.25	40.21	50.63	47.51	0
21/06/2018	26.73	36.97	58.05	45.96	40.92	40.16	50.60	47.47	0
22/06/2018	27.71	36.48	58.09	45.96	41.00	40.10	50.67	47.58	23.9
23/06/2018	54.64	38.99	58.29	47.03	43.42	40.44	50.72	47.60	12.7
24/06/2018	55.69	39.39	58.39	47.40	44.33	40.54	50.71	47.74	18.1
25/06/2018	55.93	39.67	58.50	47.75	45.00	40.68	50.73	47.79	0
26/06/2018	55.30	39.91	58.51	47.97	45.21	40.75	50.67	47.74	13.7
27/06/2018	56.06	40.18	58.60	48.41	45.93	40.85	50.69	47.72	6.4
28/06/2018	56.19	40.22	58.61	48.58	46.29	40.91	50.68	47.83	5.2
29/06/2018	56.38	40.25	58.63	48.73	46.58	40.93	50.72	47.81	5.9
30/06/2018	56.50	40.21	58.67	48.96	46.80	41.00	50.72	47.81	6.7

1/07/2018	56.57	40.22	58.71	49.07	47.08	41.04	50.75	47.88	26.6
2/07/2018	56.61	40.27	58.68	49.20	47.51	41.12	50.78	47.82	22.5
3/07/2018	56.40	40.18	58.69	49.21	47.49	41.18	50.84	47.87	0.1
4/07/2018	55.60	40.03	58.66	49.13	47.33	41.16	50.84	47.87	1.1
5/07/2018	55.12	39.69	58.58	48.95	47.05	41.06	50.83	47.87	0
6/07/2018	55.02	39.44	58.56	48.81	46.93	41.02	50.84	47.91	0
7/07/2018	54.90	39.13	58.59	48.82	46.81	40.97	50.83	47.85	1.7
8/07/2018	54.97	39.07	58.60	48.90	46.83	41.00	50.84	47.88	2.8
9/07/2018	54.90	39.02	58.56	48.83	46.80	40.97	50.90	47.91	0
10/07/2018	54.81	38.89	58.59	48.79	46.78	40.95	50.82	47.84	0
11/07/2018	54.40	38.72	58.58	48.67	46.62	40.83	50.90	47.90	1.2
12/07/2018	48.21	38.53	58.59	48.60	46.58	40.74	50.89	47.85	0
13/07/2018	38.45	38.45	58.46	48.41	46.42	40.63	50.94	47.87	0.1
14/07/2018	32.13	38.26	58.47	47.80	46.34	40.60	50.93	47.83	0
15/07/2018	30.65	38.33	58.46	47.92	46.29	40.53	50.92	47.91	0
16/07/2018	29.77	38.32	58.47	47.40	46.17	40.52	50.95	47.88	0
17/07/2018	29.17	38.17	58.41	47.19	45.75	40.46	50.96	47.89	0
18/07/2018	28.61	38.11	57.95	47.60	43.97	40.80	50.94	47.86	5.3
19/07/2018	28.56	38.09	57.49	47.93	42.23	41.23	50.98	47.94	0.5
20/07/2018	28.30	38.15	57.68	47.46	40.98	41.26	50.96	47.98	0.1
21/07/2018	28.00	38.12	57.92	47.21	40.99	41.29	50.99	47.97	0
22/07/2018	27.67	38.06	57.98	47.12	41.18	41.27	51.08	47.94	0.2
23/07/2018	27.46	37.98	57.87	47.13	41.24	41.23	51.04	47.94	0
24/07/2018	27.34	37.87	57.82	47.37	41.07	41.19	51.03	47.88	3.7
25/07/2018	27.26	37.88	57.82	47.45	40.93	41.18	51.07	47.95	0.4
26/07/2018	27.15	37.99	57.86	47.48	40.76	41.16	51.08	47.98	0
27/07/2018	27.00	38.03	57.77	47.52	40.58	41.08	51.10	47.93	0
28/07/2018	26.85	37.98	57.76	47.28	40.42	41.07	51.07	47.96	0
29/07/2018	26.77	37.94	57.76	47.17	40.37	41.03	51.08	47.91	0
30/07/2018	26.61	37.73	57.75	47.47	40.25	41.01	51.14	47.99	0
31/07/2018	26.51	37.36	57.80	47.11	40.14	40.98	51.14	47.98	0
1/08/2018	26.40	36.82	57.74	47.02	39.98	40.97	51.12	48.00	0
2/08/2018	26.30	36.77	57.80	47.28	39.84	40.93	51.12	48.03	0
3/08/2018	26.22	36.70	57.76	47.37	39.79	40.87	51.17	48.03	0
4/08/2018	26.10	36.78	57.77	47.31	39.68	40.81	51.20	48.09	0
5/08/2018	26.01	37.83	57.76	47.39	39.57	40.71	51.17	48.02	0
6/08/2018	25.91	37.12	57.72	47.34	39.45	40.59	51.16	48.03	0
7/08/2018	25.82	36.70	57.80	47.40	39.81	40.43	51.22	48.07	0
8/08/2018	25.77	36.59	57.77	47.45	39.92	40.41	51.22	48.07	0
9/08/2018	25.68	36.56	57.79	47.82	39.86	40.36	51.21	48.06	0
10/08/2018	25.57	36.52	57.80	47.81	39.85	40.34	51.20	48.06	0
11/08/2018	25.47	36.54	57.73	47.65	39.80	40.22	51.26	48.14	0
12/08/2018	25.41	36.68	57.74	47.46	39.70	40.21	51.24	48.07	0
13/08/2018	25.32	36.62	57.72	47.39	39.86	40.15	51.25	48.17	0
14/08/2018	25.24	36.71	57.78	47.37	40.12	40.10	51.24	48.07	0
15/08/2018	25.17	36.79	57.73	47.30	40.05	40.05	51.31	48.14	1.6

16/08/2018	25.08	36.87	57.75	47.58	39.95	39.97	51.26	48.09	0
17/08/2018	25.03	36.85	57.77	47.50	39.68	39.79	51.23	48.11	0
18/08/2018	24.91	36.10	57.80	47.47	39.63	39.70	51.25	48.16	0
19/08/2018	24.86	35.01	57.77	47.34	39.59	39.63	51.13	48.06	0
20/08/2018	24.81	35.02	57.76	47.60	39.47	39.59	51.19	48.08	0
21/08/2018	24.85	34.75	57.76	47.60	39.47	38.54	51.20	48.12	0
22/08/2018	24.83	33.80	57.77	47.70	39.50	38.07	51.13	48.14	0
23/08/2018	24.79	33.12	57.76	47.63	39.70	38.01	51.19	48.07	0
24/08/2018	24.71	32.83	57.72	47.58	39.55	37.96	51.16	48.16	0
25/08/2018	24.64	33.87	57.78	47.71	39.42	37.95	51.20	48.10	0
26/08/2018	24.58	34.15	57.79	47.82	39.55	37.89	51.17	48.15	0
27/08/2018	24.44	33.02	57.76	47.78	39.59	37.72	51.18	48.09	0
28/08/2018	24.35	32.42	57.74	47.71	39.45	37.71	51.22	48.11	0
29/08/2018	24.26	32.58	57.80	47.76	39.52	37.64	51.18	48.08	0
30/08/2018	24.16	32.28	57.71	47.63	39.40	37.61	51.23	48.05	0
31/08/2018	24.03	32.01	57.71	47.61	39.34	37.55	51.25	48.00	0
1/09/2018	23.92	31.85	57.70	47.54	39.34	37.42	51.26	48.00	0
2/09/2018	23.80	31.77	57.71	47.45	39.75	37.35	51.27	48.07	0
3/09/2018	23.64	31.62	57.72	47.41	39.72	37.31	51.25	48.10	0
4/09/2018	23.50	31.51	57.70	47.38	39.94	37.25	51.29	48.10	0
5/09/2018	23.32	31.37	57.64	47.26	39.79	37.20	51.30	48.08	0
6/09/2018	23.16	31.20	57.67	47.27	39.70	37.16	51.29	48.06	0
7/09/2018	23.05	31.10	57.67	47.22	39.67	37.12	51.32	48.10	0.2
8/09/2018	22.84	30.99	57.66	47.10	39.86	36.99	51.33	48.09	0.1
9/09/2018	22.68	31.08	57.58	47.14	39.82	36.89	51.35	48.13	0
10/09/2018	22.53	30.97	57.59	47.19	39.68	39.48	51.31	48.17	0
11/09/2018	22.37	30.92	57.53	47.12	39.49	39.65	51.35	48.19	0
12/09/2018	22.17	30.81	57.67	47.18	39.49	39.61	51.37	48.10	0
13/09/2018	22.01	30.70	57.59	47.21	39.49	39.55	51.34	48.10	7.2
14/09/2018	21.87	30.70	57.58	47.20	39.36	39.54	51.36	48.20	0.2
15/09/2018	21.82	30.68	57.57	47.00	38.84	39.77	51.38	48.14	0
16/09/2018	21.74	30.70	57.47	47.26	38.88	40.26	51.43	48.21	0
17/09/2018	21.61	30.61	57.47	47.30	39.76	40.27	51.45	48.20	0
18/09/2018	21.42	30.52	57.38	47.20	39.50	40.20	51.40	48.19	0.1
19/09/2018	21.24	30.98	57.55	47.26	39.72	40.41	51.41	48.24	3.2
20/09/2018	21.12	30.38	57.84	47.75	40.61	41.02	51.41	48.12	0
21/09/2018	20.94	30.67	58.31	47.48	41.02	40.89	51.40	48.15	0
22/09/2018	20.62	30.03	58.56	47.37	41.31	40.96	51.42	48.16	0
23/09/2018	20.28	29.96	58.38	47.37	41.18	40.92	51.46	48.20	1.7
24/09/2018	20.05	29.90	58.42	47.36	40.86	40.84	51.45	48.24	0
25/09/2018	19.82	29.83	58.39	47.31	40.74	40.80	51.43	48.28	0.2
26/09/2018	19.60	29.73	58.26	47.33	40.52	40.74	51.47	48.23	4
27/09/2018	19.46	29.60	57.94	47.21	40.39	40.65	51.45	48.31	0.3
28/09/2018	19.31	29.52	57.63	47.23	40.42	40.56	51.47	48.22	0
29/09/2018	19.07	29.40	57.85	47.27	40.37	40.51	51.50	48.27	0
30/09/2018	18.73	29.30	57.43	47.25	40.26	40.44	51.47	48.29	0

1/10/2018	18.44	29.10	56.86	47.23	40.24	40.36	51.48	48.31	0.4
2/10/2018	18.12	28.93	55.78	47.16	40.21	40.31	51.49	48.36	0.4
3/10/2018	17.82	28.60	55.21	47.17	40.09	40.16	51.57	48.38	1.2
4/10/2018	17.41	27.89	55.14	47.13	39.94	40.11	51.58	48.33	0
5/10/2018	16.95	27.52	54.79	47.04	39.82	39.96	51.54	48.38	0
6/10/2018	16.66	27.07	54.62	47.09	39.67	39.91	51.56	48.39	0
7/10/2018	16.37	26.81	55.13	47.08	39.65	39.84	51.54	48.32	0
8/10/2018	16.07	26.59	55.76	46.98	39.55	39.76	51.59	48.32	0
9/10/2018	15.63	26.66	55.69	47.17	39.16	40.49	51.57	48.41	0
10/10/2018	15.43	26.39	54.91	47.27	38.89	41.09	51.53	48.37	0
11/10/2018	15.37	26.17	54.72	47.22	38.73	41.02	51.54	48.31	0
12/10/2018	15.28	26.05	55.03	47.20	38.82	40.92	51.57	48.37	0
13/10/2018	15.22	25.92	54.33	47.07	38.79	40.82	51.60	48.32	7.1
14/10/2018	15.15	25.86	54.27	47.05	38.70	40.73	51.60	48.44	0.2
15/10/2018	15.10	25.91	54.23	47.02	38.62	40.71	51.56	48.41	0
16/10/2018	15.07	25.96	54.04	46.98	38.54	40.70	51.55	48.35	0
17/10/2018	15.11	25.99	53.98	46.68	38.65	40.68	51.57	48.42	0
18/10/2018	15.11	25.98	53.96	46.78	38.58	40.62	51.60	48.30	0
19/10/2018	15.09	25.95	53.61	46.73	38.49	40.53	51.58	48.37	0
20/10/2018	15.09	25.96	53.39	46.79	38.42	40.36	51.64	48.43	0
21/10/2018	15.06	25.94	53.19	46.82	38.32	40.29	51.63	48.45	0
22/10/2018	15.05	25.88	57.35	46.72	39.07	40.17	51.57	48.43	0
23/10/2018	15.05	25.77	55.52	46.77	39.09	40.02	51.59	48.44	0.2
24/10/2018	15.05	25.73	55.49	46.63	39.03	40.01	51.66	48.42	0
25/10/2018	15.02	25.70	53.79	46.85	38.99	40.01	51.65	48.45	0
26/10/2018	15.00	25.65	53.55	47.38	38.85	39.99	51.67	48.39	0
27/10/2018	14.99	25.58	53.49	47.39	38.73	39.87	51.65	48.44	0
28/10/2018	14.95	25.58	53.92	47.27	38.65	39.72	51.67	48.42	0
29/10/2018	14.92	25.51	53.50	47.18	38.52	39.62	51.67	48.40	0
30/10/2018	14.90	25.43	53.30	46.98	38.46	39.57	51.67	48.40	0
31/10/2018	14.84	25.33	53.72	46.95	38.59	39.55	51.70	48.43	0
1/11/2018	14.82	25.23	53.30	46.90	38.67	39.45	51.68	48.40	0.2
2/11/2018	14.80	25.19	53.22	46.81	38.58	39.33	51.72	48.41	5.6
3/11/2018	14.75	28.09	53.45	46.84	38.55	39.29	51.72	48.45	23.6
4/11/2018	14.75	29.83	53.80	46.84	38.41	39.29	51.70	48.39	4.4
5/11/2018	14.76	29.16	54.72	46.74	38.34	39.09	51.75	48.43	0
6/11/2018	14.78	28.47	55.13	46.73	38.30	39.00	51.76	48.46	0
7/11/2018	14.81	28.04	53.97	46.78	38.02	38.86	51.74	48.39	0
8/11/2018	14.81	27.92	55.23	46.88	38.51	38.95	51.67	48.48	0
9/11/2018	14.83	27.78	55.21	46.84	38.54	39.04	51.76	48.40	2.6
10/11/2018	14.85	27.66	53.96	46.76	38.53	38.86	51.73	48.43	1.6
11/11/2018	14.84	29.53	55.38	46.86	38.58	39.36	51.79	48.43	13.4
12/11/2018	14.86	29.35	55.01	46.80	38.51	39.61	51.78	48.50	2
13/11/2018	14.90	28.97	55.58	46.80	38.56	39.52	51.82	48.39	0
14/11/2018	14.90	28.56	54.96	46.71	38.44	39.39	51.79	48.48	2
15/11/2018	14.95	28.23	54.78	46.74	38.52	39.34	51.78	48.40	3.2

16/11/2018	14.97	28.41	53.00	47.10	40.49	41.53	51.79	48.16	0
17/11/2018	15.13	28.28	53.06	46.99	40.74	41.45	51.77	48.24	0
18/11/2018	15.45	28.17	52.91	46.96	40.60	41.40	51.83	48.14	0
19/11/2018	15.67	28.13	52.19	46.91	40.48	41.40	51.82	48.17	0
20/11/2018	15.77	28.01	52.33	46.87	40.23	41.36	51.81	48.26	0
21/11/2018	15.83	27.98	52.86	46.82	40.07	41.27	51.80	48.24	0
22/11/2018	15.78	27.96	52.44	46.87	40.01	41.20	51.91	48.15	1.8
23/11/2018	15.81	27.87	52.22	46.79	39.91	41.20	51.89	48.30	1.8
24/11/2018	15.79	27.93	52.00	46.83	39.71	41.11	51.97	48.24	0
25/11/2018	15.77	27.94	51.93	46.94	39.53	41.00	51.96	48.19	0
26/11/2018	15.73	28.03	51.64	46.87	39.35	40.85	52.02	48.19	0
27/11/2018	15.72	27.85	50.82	46.81	39.19	40.74	52.01	48.22	0
28/11/2018	15.72	27.48	50.28	46.66	39.00	40.69	52.01	48.21	0
29/11/2018	15.70	27.44	50.53	46.71	38.83	40.68	52.02	48.29	0
30/11/2018	15.55	27.40	50.64	46.65	38.69	40.66	52.01	48.34	0