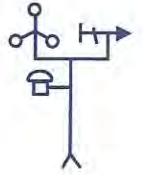




TECHNICAL ENVIRONMENTAL SERVICES, LLC



February 6, 2019

Mr. Jamie C. Foster
Department of Environmental Protection
Division of Solid Waste Services
16101 Frederick Road
Derwood, MD 20855

Dear Jamie:

Enclosed is the monthly meteorological report for the Gude Drive Landfill sites meteorological instrumentation for January 2019. All the instrumentation worked normally during January. There were a few hours at the end of the month (January 30) when the wind speed and direction were frozen. When the winds picked up everything went back to normal. Data recovery for all parameters was near 100% for the month. January had a precipitation total of 3.20 inches.

Attached is a wind rose for the month of January 2019 and a table showing the data collection percentage for each parameter in 2019.

If you have any questions, please call or e-mail them to me.

Best regards,

Mark Abrams

GUDE DRIVE METEOROLOGICAL TOWER
DATA RECOVERY
JANUARY 2019

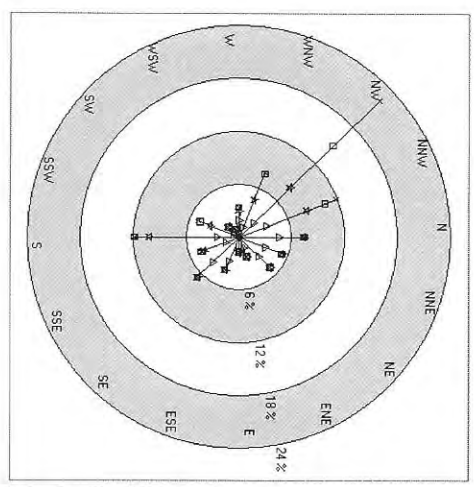
PARAMETER	RECOVERY (percent)
Wind Speed 3m	98.0
Wind Direction 3m	98.3
Temperature 2m	100.0
Relative Humidity 2m	100.0
Precipitation	100.0

Run Date: 2/6/2019 12:35:54 PM

WIND ROSE

(WINDS FROM)

N



0.00% PERCENT CALMS
(NOT INCLUDED IN PLOT)

Start Date: 1/1/2019 00:00
End Date: 1/31/2019 23:00

Sensors Selected
3M_WS
3M_WD

- Legend
- △ WIND SPEED LESS THAN 35 MPH
 - ⋄ WIND SPEED LESS THAN 75 MPH
 - WIND SPEED LESS THAN 125 MPH
 - × WIND SPEED GREATER THAN 125 MPH

Date Time	Avg_WS (MPH)	Avg_WD (DEG)	Sigma (DEG)	Max_Wspd (MPH)	Avg_Temp (DEG F)	Min_Temp (DEG F)	Max_Temp (DEG F)	Avg_RelH (%)	Total_Rain (INCH)
1/1/2019 0:00	6.8	189		10.4	42.7			99.9	0
1/1/2019 1:00	8.0	192		12.1	44.3			99.9	0
1/1/2019 2:00	7.4	189		12.7	46.4			99.9	0
1/1/2019 3:00	6.4	203		11.4	50.2			99.9	0
1/1/2019 4:00	2.5	219		4.9	49.6			99.9	0
1/1/2019 5:00	1.5	111		4.5	47.7			99.9	0
1/1/2019 6:00	4.6	210		8.5	50.5			99.9	0
1/1/2019 7:00	4.6	245		10.7	55.9			82.7	0
1/1/2019 8:00	10.8	284		26.9	59.4			60.9	0
1/1/2019 9:00	11.2	287		25.2	59.5			55.8	0
1/1/2019 10:00	4.6	280		20.8	59.2			58	0
1/1/2019 11:00	8.6	317		18.1	56.8			58.5	0
1/1/2019 12:00	9.3	302		18.5	55.7			59.8	0
1/1/2019 13:00	9.9	336		17.6	53.8			63.9	0
1/1/2019 14:00	9.8	334		20.9	52.8			62.6	0
1/1/2019 15:00	7.9	324		19.0	51.0			63.2	0
1/1/2019 16:00	6.5	318		17.3	49.9			61.6	0
1/1/2019 17:00	5.9	310		14.1	48.4			62.3	0
1/1/2019 18:00	5.3	342		9.4	46.2			68.9	0
1/1/2019 19:00	4.2	11		7.0	44.0			72	0
1/1/2019 20:00	5.5	340		11.0	45.4			67.9	0
1/1/2019 21:00	4.2	340		8.1	45.1			66.6	0
1/1/2019 22:00	6.6	346		12.6	44.8			65.5	0
1/1/2019 23:00	2.3	345		4.4	43.6			70	0
1/2/2019 0:00	2.5	19		4.5	42.2			73.6	0
1/2/2019 1:00	0.9	54		1.8	41.5			80.5	0
1/2/2019 2:00	1.5	181		2.8	42.6			77.8	0
1/2/2019 3:00	3.8	19		4.9	40.2			88.8	0
1/2/2019 4:00	1.5	270		2.0	41.3			80.5	0
1/2/2019 5:00	1.6	293		2.7	41.2			79.9	0
1/2/2019 6:00	0.9	260		1.7	41.3			78.9	0
1/2/2019 7:00	2.3	201		4.2	41.3			80.6	0
1/2/2019 8:00	1.8	178		3.5	41.5			80.5	0
1/2/2019 9:00	3.8	177		5.7	42.3			79.8	0
1/2/2019 10:00	3.4	182		6.0	42.8			77	0
1/2/2019 11:00	4.1	190		6.5	43.4			75.9	0
1/2/2019 12:00	6.0	184		9.2	44.4			74.9	0
1/2/2019 13:00	7.8	184		12.5	44.3			70.7	0
1/2/2019 14:00	8.7	187		14.2	44.6			69.9	0
1/2/2019 15:00	5.6	169		9.8	44.4			69.7	0
1/2/2019 16:00	7.8	169		16.2	44.0			70.3	0
1/2/2019 17:00	7.1	172		12.1	43.6			72	0

1/2/2019 18:00	5.1	159		10.0	43.4			72.4	0
1/2/2019 19:00	5.5	158		9.8	43.3			68.4	0
1/2/2019 20:00	5.9	157		9.9	43.2			66.9	0
1/2/2019 21:00	6.1	163		11.7	43.0			70.3	0
1/2/2019 22:00	6.8	163		13.2	43.0			70.5	0
1/2/2019 23:00	7.6	175		12.3	42.8			72.7	0
1/3/2019 0:00	8.7	174		14.4	42.9			77.2	0
1/3/2019 1:00	5.5	176		9.3	43.0			79.3	0
1/3/2019 2:00	3.8	203		6.6	42.5			82.2	0
1/3/2019 3:00	3.7	172		5.7	42.2			83.6	0
1/3/2019 4:00	2.7	211		5.1	41.8			85.2	0
1/3/2019 5:00	2.0	181		4.0	41.5			86.5	0
1/3/2019 6:00	2.6	242		5.5	41.8			86.4	0
1/3/2019 7:00	1.6	180		3.7	40.9			91.1	0
1/3/2019 8:00	1.6	270		2.4	43.0			80.7	0
1/3/2019 9:00	1.6	328		3.7	42.8			84.8	0
1/3/2019 10:00	7.8	350		13.6	45.3			68.4	0
1/3/2019 11:00	6.1	330		13.8	46.1			56.9	0
1/3/2019 12:00	8.7	336		16.8	46.1			53.4	0
1/3/2019 13:00	8.7	320		17.4	46.6			50	0
1/3/2019 14:00	6.7	338		13.0	46.2			50	0
1/3/2019 15:00	6.0	338		10.7	46.0			50.4	0
1/3/2019 16:00	3.9	42		6.4	44.5			56.6	0
1/3/2019 17:00	2.3	1		3.8	41.4			64.1	0
1/3/2019 18:00	3.6	344		4.9	40.8			64	0
1/3/2019 19:00	1.9	35		2.5	37.5			74.9	0
1/3/2019 20:00	2.8	16		4.1	35.5			77.4	0
1/3/2019 21:00	1.5	179		2.6	36.1			79.7	0
1/3/2019 22:00	1.5	180		3.0	34.7			85.4	0
1/3/2019 23:00	1.5	112		2.6	31.1			88.7	0
1/4/2019 0:00	1.4	124		2.2	29.3			91.7	0
1/4/2019 1:00	3.3	187		7.3	33.2			78.9	0
1/4/2019 2:00	1.8	190		3.1	31.6			92.7	0
1/4/2019 3:00	3.5	211		5.2	32.1			93.2	0
1/4/2019 4:00	2.7	182		5.3	32.7			87.9	0
1/4/2019 5:00	1.9	176		3.1	30.6			94.2	0
1/4/2019 6:00	2.8	129		4.0	30.6			95.5	0
1/4/2019 7:00	0.9	94		1.9	29.5			89.4	0
1/4/2019 8:00	1.0	233		1.6	31.1			94.2	0
1/4/2019 9:00	1.0	21		1.4	31.0			94.8	0
1/4/2019 10:00	4.1	157		6.6	37.2			83.3	0
1/4/2019 11:00	6.0	191		10.5	39.8			84.5	0
1/4/2019 12:00	5.7	180		7.9	42.1			89	0

1/4/2019 13:00	6.7	172		12.7	43.7			86.4	0
1/4/2019 14:00	8.7	175		14.5	44.4			83.1	0
1/4/2019 15:00	6.6	208		10.7	44.7			82.9	0
1/4/2019 16:00	5.1	178		8.9	45.0			83.7	0
1/4/2019 17:00	3.6	162		6.8	44.9			84.5	0
1/4/2019 18:00	6.9	148		11.8	45.2			84.6	0
1/4/2019 19:00	2.6	116		3.9	45.0			85.2	0
1/4/2019 20:00	1.9	88		5.1	44.9			87.4	0
1/4/2019 21:00	1.0	111		2.0	43.3			96.4	0
1/4/2019 22:00	3.1	69		5.5	42.7			98.8	0
1/4/2019 23:00	3.5	58		6.7	42.8			98.3	0
1/5/2019 0:00	4.4	28		6.8	42.5			98.7	0.01
1/5/2019 1:00	4.1	39		6.7	41.6			99.9	0.03
1/5/2019 2:00	3.1	293		5.6	40.7			99.9	0.02
1/5/2019 3:00	5.2	16		7.6	39.3			99.9	0.05
1/5/2019 4:00	6.8	14		10.1	39.1			99.9	0
1/5/2019 5:00	2.5	24		3.5	39.3			99.9	0.01
1/5/2019 6:00	5.5	359		8.2	39.4			99.9	0
1/5/2019 7:00	6.4	355		9.7	39.1			99.9	0
1/5/2019 8:00	3.4	321		5.9	38.9			99.9	0
1/5/2019 9:00	4.6	342		7.1	38.8			99.9	0
1/5/2019 10:00	5.7	306		10.3	40.8			98.7	0
1/5/2019 11:00	5.3	319		10.5	42.8			96.5	0
1/5/2019 12:00	5.3	290		11.9	44.2			91.2	0
1/5/2019 13:00	5.1	304		12.3	43.8			94.2	0.02
1/5/2019 14:00	8.9	309		19.8	45.4			89.7	0.04
1/5/2019 15:00	7.1	313		17.6	49.7			76.1	0
1/5/2019 16:00	7.3	328		17.9	50.8			68.7	0
1/5/2019 17:00	6.7	306		14.7	50.7			58.2	0
1/5/2019 18:00	8.5	296		17.9	49.9			60.5	0
1/5/2019 19:00	7.5	288		16.2	49.4			59.9	0
1/5/2019 20:00	3.6	273		11.0	46.7			65.2	0
1/5/2019 21:00	3.6	276		8.5	46.6			65.9	0
1/5/2019 22:00	2.6	264		5.3	44.7			69.6	0
1/5/2019 23:00	2.7	266		5.9	44.4			69.9	0
1/6/2019 0:00	2.8	273		5.1	45.3			68.1	0
1/6/2019 1:00	4.1	220		9.0	45.9			65.8	0
1/6/2019 2:00	4.1	216		9.1	45.4			66.3	0
1/6/2019 3:00	4.4	218		8.2	45.6			65.6	0
1/6/2019 4:00	3.7	220		7.1	45.0			67	0
1/6/2019 5:00	3.9	219		7.4	43.0			72.5	0
1/6/2019 6:00	3.8	215		6.6	42.1			74.7	0
1/6/2019 7:00	3.1	271		8.2	42.1			77.9	0

1/6/2019 8:00	3.4	288		5.3	41.3			79.2	0
1/6/2019 9:00	4.7	304		13.2	46.8			67.7	0
1/6/2019 10:00	10.4	315		22.8	49.2			61.2	0
1/6/2019 11:00	13.3	313		27.6	49.5			57.9	0
1/6/2019 12:00	12.5	320		27.3	50.7			50.7	0
1/6/2019 13:00	12.8	332		22.8	51.0			49.3	0
1/6/2019 14:00	11.3	335		21.6	51.3			42.2	0
1/6/2019 15:00	10.9	340		19.5	50.6			43.1	0
1/6/2019 16:00	8.7	333		15.9	49.0			40.1	0
1/6/2019 17:00	9.2	338		16.4	46.7			42.5	0
1/6/2019 18:00	8.0	333		16.4	45.3			41.8	0
1/6/2019 19:00	6.7	340		13.6	43.9			46.5	0
1/6/2019 20:00	5.1	344		10.0	41.9			50.5	0
1/6/2019 21:00	5.0	322		9.2	39.6			55.9	0
1/6/2019 22:00	5.0	333		8.4	37.7			58.5	0
1/6/2019 23:00	6.3	344		10.7	37.6			59	0
1/7/2019 0:00	5.2	346		8.6	36.5			59.2	0
1/7/2019 1:00	4.8	358		8.2	34.2			63	0
1/7/2019 2:00	3.4	336		6.1	34.4			62.1	0
1/7/2019 3:00	2.7	344		4.9	30.6			69.5	0
1/7/2019 4:00	0.8	75		1.1	31.6			75.1	0
1/7/2019 5:00	1.4	42		2.9	29.4			82.7	0
1/7/2019 6:00	4.3	26		6.8	30.9			80.8	0
1/7/2019 7:00	5.2	43		9.1	32.7			63.5	0
1/7/2019 8:00	7.0	33		13.3	32.2			57.6	0
1/7/2019 9:00	3.2	40		6.8	32.5			59.1	0
1/7/2019 10:00	5.4	35		9.0	33.0			60.6	0
1/7/2019 11:00	3.1	112		7.1	34.2			56.2	0
1/7/2019 12:00	4.0	117		8.1	34.2			54.1	0
1/7/2019 13:00	4.2	155		6.7	34.7			53.7	0
1/7/2019 14:00	5.0	132		9.0	35.8			52.1	0
1/7/2019 15:00	5.6	137		10.4	35.9			51.1	0
1/7/2019 16:00	5.8	145		10.5	35.9			55.2	0
1/7/2019 17:00	6.6	146		11.7	35.7			57.3	0
1/7/2019 18:00	6.0	141		12.2	35.0			58.4	0
1/7/2019 19:00	6.1	146		10.6	34.5			56.3	0
1/7/2019 20:00	6.9	150		12.9	33.9			60.3	0
1/7/2019 21:00	6.5	172		10.9	34.2			65.4	0
1/7/2019 22:00	8.2	152		14.5	35.1			68.3	0
1/7/2019 23:00	9.9	150		19.2	36.0			74.4	0
1/8/2019 0:00	3.1	164		7.0	36.1			85.6	0.01
1/8/2019 1:00	7.0	163		12.6	36.5			91.7	0.03
1/8/2019 2:00	6.3	169		11.2	36.5			94.1	0.01

1/8/2019 3:00	6.9	180		10.7	37.2			93.3	0
1/8/2019 4:00	6.7	179		10.1	36.9			92.8	0
1/8/2019 5:00	5.6	173		9.0	36.2			94.2	0
1/8/2019 6:00	3.1	165		4.9	35.4			96.1	0
1/8/2019 7:00	2.3	149		3.5	34.0			98.7	0
1/8/2019 8:00	2.0	149		3.8	34.3			99.6	0
1/8/2019 9:00	2.7	147		6.2	37.0			96	0
1/8/2019 10:00	1.7	39		3.1	38.7			93.8	0
1/8/2019 11:00	5.4	176		10.8	41.6			87	0
1/8/2019 12:00	3.8	183		6.8	44.3			82.4	0
1/8/2019 13:00	4.0	174		6.9	46.2			77.2	0
1/8/2019 14:00	5.6	177		8.7	49.8			70.7	0
1/8/2019 15:00	5.0	178		8.3	52.3			68	0
1/8/2019 16:00	2.6	105		5.3	53.0			68.8	0
1/8/2019 17:00	3.9	169		6.6	52.7			75.3	0
1/8/2019 18:00	4.7	139		6.3	50.3			81.1	0
1/8/2019 19:00	6.7	155		10.9	51.2			78.6	0
1/8/2019 20:00	6.3	177		9.4	52.9			77.7	0
1/8/2019 21:00	6.4	319		21.0	49.2			93.4	0.16
1/8/2019 22:00	2.5	186		5.5	48.8			88.9	0.02
1/8/2019 23:00	11.3	284		27.7	51.4			63.7	0
1/9/2019 0:00	11.8	279		31.6	50.2			53.8	0
1/9/2019 1:00	10.6	307		28.4	46.1			59.3	0
1/9/2019 2:00	5.9	302		17.8	45.2			53	0
1/9/2019 3:00	3.5	285		8.3	44.9			51.6	0
1/9/2019 4:00	7.2	287		18.4	44.8			48.6	0
1/9/2019 5:00	7.9	270		28.7	42.7			44.6	0
1/9/2019 6:00	6.0	280		15.1	42.5			44.3	0
1/9/2019 7:00	5.2	283		12.9	42.7			45.6	0
1/9/2019 8:00	5.5	286		12.0	42.5			48.5	0
1/9/2019 9:00	4.7	276		13.9	42.9			49.9	0
1/9/2019 10:00	5.9	283		11.7	43.9			50.7	0
1/9/2019 11:00	8.2	294		15.8	44.2			51	0
1/9/2019 12:00	9.1	283		22.9	44.4			50.1	0
1/9/2019 13:00	9.2	302		18.7	40.0			64.2	0
1/9/2019 14:00	12.4	305		35.0	39.4			66.1	0
1/9/2019 15:00	11.8	316		27.3	37.3			69.7	0
1/9/2019 16:00	9.2	305		22.4	36.3			62.6	0
1/9/2019 17:00	10.1	294		20.0	35.9			51.4	0
1/9/2019 18:00	8.8	292		18.6	34.7			54.5	0
1/9/2019 19:00	8.2	301		19.4	33.7			50.4	0
1/9/2019 20:00	10.8	304		27.2	33.1			48.9	0
1/9/2019 21:00	10.9	304		26.5	32.2			49.6	0

1/9/2019 22:00	10.7	301		25.5	31.4			51.5	0
1/9/2019 23:00	9.9	307		19.8	30.6			54.7	0
1/10/2019 0:00	12.9	295		29.7	29.3			56.6	0
1/10/2019 1:00	12.9	308		30.4	29.5			49.2	0
1/10/2019 2:00	12.2	293		26.4	29.1			50.5	0
1/10/2019 3:00	8.7	305		20.9	28.9			49.2	0
1/10/2019 4:00	11.7	299		27.8	28.7			50.8	0
1/10/2019 5:00	10.5	302		25.0	28.3			53.2	0
1/10/2019 6:00	12.6	306		26.6	28.6			53.2	0
1/10/2019 7:00	13.0	309		31.7	28.4			54.4	0
1/10/2019 8:00	12.5	314		28.2	28.7			54	0
1/10/2019 9:00	14.2	313		30.7	30.0			50.7	0
1/10/2019 10:00	14.5	310		32.5	31.3			47.7	0
1/10/2019 11:00	12.6	310		36.5	32.7			45.4	0
1/10/2019 12:00	10.7	316		24.3	33.2			44.9	0
1/10/2019 13:00	12.5	304		27.8	32.7			44.5	0
1/10/2019 14:00	12.6	307		28.4	33.7			42.9	0
1/10/2019 15:00	9.7	316		21.8	32.4			44.6	0
1/10/2019 16:00	11.0	314		24.3	31.9			45.2	0
1/10/2019 17:00	10.8	297		20.8	30.5			47	0
1/10/2019 18:00	10.1	309		19.5	29.3			50.6	0
1/10/2019 19:00	9.7	301		18.2	28.7			51.6	0
1/10/2019 20:00	8.5	308		18.7	28.0			53.6	0
1/10/2019 21:00	8.5	317		20.2	27.7			54.8	0
1/10/2019 22:00	9.0	315		22.4	27.3			54.7	0
1/10/2019 23:00	10.4	310		19.1	27.1			54.9	0
1/11/2019 0:00	10.1	312		22.5	26.8			55.1	0
1/11/19 1:00	15.5	324.2	12.41	28.67	26.34	26.11	26.65	54.06	0
1/11/19 2:00	14.55	320.8	11.25	25.14	25.91	25.61	26.21	56.25	0
1/11/19 3:00	14.6	322.9	11.75	22.67	25.89	25.71	26.06	56.39	0
1/11/19 4:00	12.58	323.3	11.53	20.34	25.66	25.46	25.9	57.23	0
1/11/19 5:00	10.59	317.7	11.21	20.56	25.42	25.21	25.68	58.74	0
1/11/19 6:00	9.92	318.4	10.86	16.99	25.34	25.14	25.63	59.45	0
1/11/19 7:00	9.39	321	11.05	16.4	25.01	24.7	25.28	60.13	0
1/11/19 8:00	8.52	323.3	12.1	14.93	25.08	24.77	25.57	59.95	0
1/11/19 9:00	9.79	329.3	14.2	18.41	26.41	25.5	27.34	55.87	0
1/11/19 10:00	12.58	327.7	15.14	22.3	28.25	27.37	29.48	52.98	0
1/11/19 11:00	14.04	324.3	15.78	23.27	29.81	29.11	30.75	49.79	0
1/11/19 12:00	13.32	322.4	15.6	23.04	31.19	30.26	32.62	46.26	0
1/11/19 13:00	11.17	334.1	21.9	20.56	32.33	31.64	33.74	43.13	0
1/11/19 14:00	11.54	328.9	15.39	21.89	33.23	32.58	34.18	40.89	0
1/11/19 15:00	8.87	323.6	21.25	17.77	34.23	33.44	34.94	38.59	0
1/11/19 16:00	7.163	342.8	23.63	14.43	34.41	34.09	34.77	37.01	0

1/11/19 17:00	6.429	321.6	14.66	12.23	33.33	32.43	34.28	39.73	0
1/11/19 18:00	3.957	340.1	14.91	12.14	31.68	31.02	32.73	41.25	0
1/11/19 19:00	2.396	336	17.82	4.717	30.56	30.16	31.07	43.43	0
1/11/19 20:00	3.407	333	8.8	4.672	29.62	29.18	30.22	46.73	0
1/11/19 21:00	1.469	327.3	26.36	3.023	28.87	28.32	29.59	48.54	0
1/11/19 22:00	1.622	357.7	16.36	3.298	28.65	28.03	29.28	48.52	0
1/11/19 23:00	0.925	357.8	38.21	2.519	26.66	25.89	28	57.52	0
1/12/19 0:00	2.141	344.5	22.63	3.481	26.96	26.18	27.55	56.25	0
1/12/19 1:00	2.232	26.04	28.41	3.71	25.75	24.59	26.96	65.23	0
1/12/19 2:00	1.797	31.82	11.72	3.618	24.49	24.16	24.97	78.7	0
1/12/19 3:00	1.913	20.97	8.4	2.748	23.78	23.44	24.36	80.7	0
1/12/19 4:00	1.67	18.41	15.69	3.023	23.47	22.82	24.19	80.5	0
1/12/19 5:00	1.39	26.75	27.89	2.565	24.07	23.29	24.99	69.75	0
1/12/19 6:00	0.848	25.79	28.43	2.382	23.73	23.15	24.82	74.99	0
1/12/19 7:00	0.164	11.49	7.265	1.786	23.89	23.4	24.73	74.93	0
1/12/19 8:00	0.236	153.3	46.46	2.107	24.87	24.27	25.65	74.28	0
1/12/19 9:00	1.739	153.3	23.82	4.672	27.09	25.64	28.47	61.46	0
1/12/19 10:00	2.136	157.9	29.85	5.771	29.55	28.46	31.09	55.52	0
1/12/19 11:00	3.401	166.2	30.62	7.923	32.03	31.03	32.69	48.12	0
1/12/19 12:00	4.095	180.2	27.73	9.39	33.02	32.11	33.55	45.02	0
1/12/19 13:00	4.245	190.6	24.54	10.08	33.44	33.23	33.71	43.41	0
1/12/19 14:00	3.677	187.8	38.07	10.03	33.61	32.97	34.18	45.69	0
1/12/19 15:00	4.013	205.9	41.01	9.62	32.49	31.89	33.2	54.39	0
1/12/19 16:00	4.252	194	25.98	9.21	31.65	31.1	32.5	61.87	0
1/12/19 17:00	4.078	190.2	26.27	11.86	29.23	28.33	31.07	85.9	0
1/12/19 18:00	1.746	126.4	35.06	5.542	28.4	28.32	28.53	96.3	0
1/12/19 19:00	2.532	120.1	20.78	6.412	28.36	28.1	28.52	97	0
1/12/19 20:00	2.825	128.6	23.02	6.641	27.87	27.41	28.21	97.3	0
1/12/19 21:00	2.363	131.3	22.18	5.954	27.43	27.34	27.52	97.9	0
1/12/19 22:00	2.587	134.1	24.42	6.366	27.25	27.09	27.48	98	0
1/12/19 23:00	2.097	132.2	29.13	4.901	27.15	27.02	27.34	98.2	0
1/13/19 0:00	2.27	115.4	23.15	5.542	27.2	27.12	27.31	98.1	0
1/13/19 1:00	2.565	101.3	23.18	6	27.14	27.09	27.31	98.1	0
1/13/19 2:00	2.898	106.7	22.9	7.099	27.21	27.16	27.31	97.9	0
1/13/19 3:00	2.992	90.6	18.67	6.549	27.1	26.94	27.3	97.8	0
1/13/19 4:00	2.424	73.51	21.05	5.496	26.92	26.87	27.02	97.9	0
1/13/19 5:00	3.312	74.38	24.48	8.84	26.56	26.4	26.91	97.5	0
1/13/19 6:00	3.66	53.95	21.2	9.07	26.16	26	26.47	97.5	0
1/13/19 7:00	3.207	46.34	17.27	8.29	26.01	25.93	26.11	97.7	0
1/13/19 8:00	3.833	60.3	21.31	7.923	25.83	25.75	25.99	97.5	0
1/13/19 9:00	3.762	52.68	23.88	8.15	26.04	25.79	26.55	97.4	0
1/13/19 10:00	4.272	58.51	23.75	8.89	26.81	26.45	27.15	96.2	0
1/13/19 11:00	4.854	50.37	20.85	10.08	27.17	26.91	27.48	95.6	0

1/13/19 12:00	5.707	46.66	22.28	13.1	28.2	27.41	28.78	92.9	0
1/13/19 13:00	6.11	44.38	20.09	12.46	28.56	28.39	28.82	90.6	0
1/13/19 14:00	6.278	39.58	19.83	13.51	29	28.72	29.26	89.4	0
1/13/19 15:00	5.145	26.71	19.91	10.85	29.05	28.86	29.29	90.6	0
1/13/19 16:00	4.124	14.52	20.83	7.74	28.7	28.5	29.1	94.8	0
1/13/19 17:00	4.169	15.74	19.89	9.53	28.35	28.17	28.6	97.4	0
1/13/19 18:00	3.759	3.236	18.95	8.79	28.23	28.13	28.35	99.2	0
1/13/19 19:00	4.013	12.48	20.4	9.66	28.17	27.63	28.39	99.5	0
1/13/19 20:00	4.85	9.52	19.59	9.48	27.41	27.34	27.64	99.2	0
1/13/19 21:00	5.214	30.1	19.09	13.01	26.78	26.22	27.4	98.8	0
1/13/19 22:00	1.85	31.47	26.84	5.588	26.3	26.22	26.43	98.5	0
1/13/19 23:00	1.819	347.2	15.38	5.862	26.29	26.22	26.54	98.5	0
1/14/19 0:00	4.139	2.494	20.18	9.57	26.4	26.08	26.62	98.5	0
1/14/19 1:00	4.084	5.187	20.87	9.48	25.93	25.71	26.1	98.2	0
1/14/19 2:00	2.341	344.9	14.25	5.267	25.44	25.14	25.75	98	0
1/14/19 3:00	2.881	341.1	10.74	4.946	25.21	25.14	25.32	97.9	0
1/14/19 4:00	3.046	339.7	9.52	6.091	25.45	25.21	25.67	97.9	0
1/14/19 5:00	2.525	342.1	13.1	5.817	25.44	25.17	25.68	97.8	0
1/14/19 6:00	2.226	359.8	15.87	4.763	25.04	24.74	25.25	97.4	0
1/14/19 7:00	2.126	351	17.32	5.267	24.74	24.63	24.85	96.8	0
1/14/19 8:00	2.769	356	21.93	6.229	24.49	24.31	24.88	94.9	0
1/14/19 9:00	3.128	0.714	20.59	8.38	24.78	24.34	25.04	92.7	0
1/14/19 10:00	5.661	7.794	20.87	11.13	25.4	24.89	26.56	76.93	0
1/14/19 11:00	5.114	8.39	21.06	11.36	27.55	26.55	29.22	56.67	0
1/14/19 12:00	4.517	26.82	26.82	10.35	29.82	28.75	30.99	49.54	0
1/14/19 13:00	3.139	34.2	49.61	7.191	31.82	30.59	33.96	45.69	0
1/14/19 14:00	2.526	356.7	42.79	7.053	33.69	32.29	35.91	42.75	0.1
1/14/19 15:00	2.732	316.4	33.46	6.504	34.43	33.26	36.09	40	0.04
1/14/19 16:00	3.694	321.2	16.18	8.61	34.33	33.23	35.4	42.19	0.09
1/14/19 17:00	3.585	331	17.48	6.412	32.84	30.71	33.63	43.96	0.02
1/14/19 18:00	2.09	307.1	10.51	4.58	29.42	28.29	30.71	59.32	0
1/14/19 19:00	1.586	310.2	8.14	3.664	28.12	27.81	28.89	66.56	0
1/14/19 20:00	2.75	329	12.56	3.664	28.26	27.41	29.26	69.53	0
1/14/19 21:00	3.74	337.8	8.47	4.992	27.47	27.12	28.24	73.12	0
1/14/19 22:00	3.987	335	5.969	4.855	27.02	26.44	27.52	75.41	0
1/14/19 23:00	4.117	330.7	3.925	5.221	26.02	25.29	26.99	79.9	0
1/15/19 0:00	3.406	317.8	5.936	5.13	25.52	24.78	26.08	85.2	0
1/15/19 1:00	4.245	318.4	6.811	7.465	26.45	25.72	26.94	85.2	0
1/15/19 2:00	3.538	322.9	7.32	5.221	25.99	25.53	26.47	86.1	0
1/15/19 3:00	2.802	324.6	5.277	3.893	25.37	24.78	25.74	88.2	0
1/15/19 4:00	3.362	331.7	4.267	4.763	25.09	24.81	25.33	89.2	0
1/15/19 5:00	3.901	331.5	5.423	5.633	25.11	24.74	25.42	88.1	0
1/15/19 6:00	4.208	331.9	6.036	5.817	25.36	25.07	25.72	86.8	0

1/15/19 7:00	3.723	331.2	5.921	5.084	25.32	25.1	25.65	87.2	0
1/15/19 8:00	3.738	328.3	8.41	5.954	25	24.31	25.94	87.2	0
1/15/19 9:00	5.01	323.1	8.83	9.8	27.75	25.94	29.59	78.94	0
1/15/19 10:00	7.487	326	12.23	14.98	31.25	29.62	32.58	68.31	0
1/15/19 11:00	10.09	336.5	16.61	17.86	33.16	32.51	33.92	61.85	0.01
1/15/19 12:00	8.5	326.8	16.33	16.67	34.07	33.56	34.39	60.67	0.05
1/15/19 13:00	10.31	317	13.78	16.85	33.9	33.45	34.7	59.75	0.03
1/15/19 14:00	9.02	324.7	14.48	14.66	33.57	33.19	33.98	59.7	0.01
1/15/19 15:00	6.829	311.7	22.63	12.14	33.97	33.19	35.19	59.68	0
1/15/19 16:00	6.913	322.2	17.07	12.32	34.52	34.28	34.78	59.05	0
1/15/19 17:00	4.498	322.7	13.16	9.8	34.17	33.7	34.64	60.31	0
1/15/19 18:00	2.44	322.4	11.87	5.542	32.98	32.36	33.78	62.83	0
1/15/19 19:00	0.417	28.79	32.84	1.969	29.93	28.39	32.35	71.05	0
1/15/19 20:00	2.482	352.6	19.69	4.397	28.69	23.99	30.22	73.98	0
1/15/19 21:00	0.835	323.9	29.02	3.206	26.45	24.89	28.35	81.2	0
1/15/19 22:00	0.634	314.7	50.67	2.198	27	25.87	27.79	78.92	0
1/15/19 23:00	0.435	140.4	46.03	1.74	24.8	23.69	26.55	85.6	0
1/16/19 0:00	0.169	162.3	33.37	1.924	24.52	22.83	26.41	86	0
1/16/19 1:00	0.192	29.45	43.76	1.191	23.31	22.61	24.63	90.6	0
1/16/19 2:00	0.157	169.8	41.75	1.374	22.86	20.88	24.52	89.7	0
1/16/19 3:00	0.264	349.2	20.55	1.466	21.74	20.73	22.98	94.1	0
1/16/19 4:00	0.006	341.8	2.73	0.55	20.24	18.39	23.01	93	0
1/16/19 5:00	0.515	47.54	19.31	3.069	19.09	17.85	19.68	95.4	0
1/16/19 6:00	0.497	46.91	12.22	1.924	18.7	17.48	20.22	95	0
1/16/19 7:00	0.486	43.52	12.17	2.656	16.42	15.31	17.5	93.3	0
1/16/19 8:00	0.69	21.65	27.16	2.931	17.53	16.61	20.52	92.9	0
1/16/19 9:00	2.002	310	30.31	4.946	25.85	20.53	30.06	88.2	0
1/16/19 10:00	4.413	286.7	17.75	9.11	31.64	30.06	32.37	73.65	0
1/16/19 11:00	5.188	294.4	13.86	9.98	32.97	32.36	33.78	71.6	0
1/16/19 12:00	3.779	297.9	16.31	8.47	34.72	33.7	35.94	69.85	0
1/16/19 13:00	4.526	306.4	21.59	11.22	36.43	35.68	37.34	67.03	0
1/16/19 14:00	6.94	309.6	17.1	12.78	37.88	37.27	38.43	62.93	0
1/16/19 15:00	8.29	302.4	15.21	17.45	38.63	38.36	38.89	60	0
1/16/19 16:00	7.857	297	14.77	15.94	38.34	38.21	38.46	61.06	0
1/16/19 17:00	5.388	297.9	21.15	12.6	38.3	38.07	38.46	61.68	0
1/16/19 18:00	7.075	305.1	11.04	15.02	37.91	37.6	38.3	63.25	0
1/16/19 19:00	4.974	299.5	16.96	10.21	37.61	37.38	37.81	64.12	0
1/16/19 20:00	4.034	313.8	19.5	8.56	37.36	37.09	37.88	64.72	0
1/16/19 21:00	7.237	335	14.09	15.02	37.13	36.73	37.44	61.52	0
1/16/19 22:00	7.535	333	18.03	14.7	36.64	36.26	36.95	59.33	0
1/16/19 23:00	5.823	305.7	13.9	15.16	36.27	35.97	36.58	56.68	0
1/17/19 0:00	3.774	288.9	27.91	9.76	35.67	35.28	36.16	59.18	0
1/17/19 1:00	2.531	292.7	20.94	5.13	35.23	35.1	35.37	60.97	0

1/17/19 2:00	1.769	286.5	38.45	4.717	34.87	34.6	35.22	62.64	0
1/17/19 3:00	1.4	265.1	41.6	4.351	34.57	34.17	34.86	63.75	0
1/17/19 4:00	2.099	267.2	18.81	4.855	34.22	33.95	34.7	65.63	0
1/17/19 5:00	2.367	297	15.33	5.496	34.25	34.17	34.38	65.04	0
1/17/19 6:00	1.891	327.8	14.39	4.214	34.07	33.91	34.24	65.44	0
1/17/19 7:00	2.157	5.982	14.17	3.435	33.57	32.94	34.24	66.54	0
1/17/19 8:00	2.467	47.85	20.38	5.725	32.29	31.46	33.37	70.73	0
1/17/19 9:00	3.541	68.77	18.07	8.43	32.57	32.04	33.09	67.96	0
1/17/19 10:00	3.854	77.65	22.64	8.24	33.39	32.98	34.01	60.09	0
1/17/19 11:00	4.905	114.6	24.95	10.53	34.18	33.88	34.5	54.32	0
1/17/19 12:00	3.968	126.3	26.99	9.66	34.23	33.95	34.54	53.21	0
1/17/19 13:00	3.936	124.3	29.79	9.07	34.64	34.31	35.23	54.86	0
1/17/19 14:00	4.104	138.6	32.69	10.99	34.99	34.67	35.51	56.49	0
1/17/19 15:00	3.885	153	32.48	10.21	34.84	34.64	35.17	57.45	0
1/17/19 16:00	3.949	151.2	28.07	10.95	34.43	34.24	34.75	58.52	0
1/17/19 17:00	3.001	135.8	26.75	8.34	33.94	33.59	34.38	61.36	0
1/17/19 18:00	2.935	125.1	29.21	8.38	33.32	32.76	33.66	65.58	0
1/17/19 19:00	2.396	116	22.94	5.221	30.88	29.91	32.77	87.9	0
1/17/19 20:00	2.788	121.7	18.27	6.458	29.77	29.72	29.94	97.5	0
1/17/19 21:00	2.561	117.5	22.86	6.412	29.84	29.69	30.05	98.3	0
1/17/19 22:00	2.613	106	18.76	5.817	30.07	29.98	30.23	98	0
1/17/19 23:00	2.03	106.2	14.95	3.985	30.22	30.16	30.33	97.9	0
1/18/19 0:00	1.687	95.6	24.59	3.572	30.27	30.23	30.38	98.8	0
1/18/19 1:00	2.44	114.6	22.63	4.58	30.55	30.3	30.82	99.1	0
1/18/19 2:00	2.648	125.4	18.55	6.458	30.97	30.81	31.1	99.2	0
1/18/19 3:00	2.741	105.8	21.74	5.496	31	30.77	31.1	99.4	0
1/18/19 4:00	1.839	103.5	19.83	7.511	30.7	30.66	30.85	99.5	0
1/18/19 5:00	1.556	92.4	20.3	4.305	30.62	30.59	30.74	99.4	0
1/18/19 6:00	1.039	98.9	27.61	2.382	30.65	30.63	30.74	99.2	0
1/18/19 7:00	0.919	61.79	24.39	2.519	30.64	30.59	30.77	99.6	0
1/18/19 8:00	1.039	66.44	47.99	3.71	30.89	30.66	31.13	100	0
1/18/19 9:00	0.908	80.8	36.32	2.702	31.63	31.06	32.43	100	0
1/18/19 10:00	1.504	140.9	82.6	6.504	33.09	32.29	33.95	99.8	0
1/18/19 11:00	2.797	249.6	38.17	6.549	34.53	33.81	35.76	93.5	0.09
1/18/19 12:00	3.655	283.5	25.71	7.328	35.08	34.67	35.61	90.4	0.04
1/18/19 13:00	2.852	314.4	30.25	7.191	36.07	35.14	38.04	88.1	0
1/18/19 14:00	2.082	269.5	50.67	6.275	39.93	37.92	41.97	77.94	0
1/18/19 15:00	2.08	223.2	52.14	5.771	41.6	39.87	43.67	75.02	0
1/18/19 16:00	2.546	292	32.77	5.038	43.35	42.72	44.06	69.99	0
1/18/19 17:00	2.574	307.1	22.84	6.046	42.18	41.03	43.23	71.64	0
1/18/19 18:00	1.616	319.4	31.57	3.847	40.03	38.47	41.21	77.49	0
1/18/19 19:00	4.262	317	16.82	9.21	39.18	38.18	39.77	78.52	0
1/18/19 20:00	2.064	308.5	19.08	4.259	39.09	38.83	39.47	78.21	0

1/18/19 21:00	3.596	335.8	19.37	7.42	39.33	38.93	39.56	76.73	0
1/18/19 22:00	2.816	335.9	15.99	5.45	38.74	37.81	39.65	78.16	0
1/18/19 23:00	3.238	0.659	15.11	6.458	37.14	36.41	38.19	82.5	0
1/19/19 0:00	3.193	3.647	17.98	8.66	35.84	32.9	36.96	85.4	0
1/19/19 1:00	0.249	9.7	38.74	1.832	35.65	35.25	36.45	86.4	0
1/19/19 2:00	0.851	10.02	46.49	2.565	35.31	34.78	35.73	87.6	0
1/19/19 3:00	1.393	30.33	27.4	2.931	33.6	32.69	34.85	91.6	0
1/19/19 4:00	0.959	98	30.07	2.702	35.1	34.6	35.43	83.2	0
1/19/19 5:00	1.29	74.33	32.97	2.611	35.21	34.64	35.65	83.7	0
1/19/19 6:00	1.741	143.6	22.36	4.351	35.25	35.03	35.47	85.7	0
1/19/19 7:00	2.193	119.8	19.77	5.542	35.37	35.18	35.61	87	0
1/19/19 8:00	2.529	125.3	22.81	7.007	35.51	35.29	35.75	87	0
1/19/19 9:00	2.567	116.8	22.37	5.908	35.77	35.61	35.98	88.3	0
1/19/19 10:00	3.529	122.2	26.92	12.64	36.17	35.9	36.37	86.6	0
1/19/19 11:00	5.292	124.7	26.66	13.24	36.29	36.15	36.49	81.1	0
1/19/19 12:00	3.928	127.2	23.97	9.71	36.36	36.12	36.74	79.84	0
1/19/19 13:00	4.673	139.3	26.42	11.82	36.51	36.26	36.81	81	0
1/19/19 14:00	4.842	133.5	30.2	12.46	36.99	36.73	37.24	83.1	0
1/19/19 15:00	4.67	113.4	21.96	13.37	36.73	36.59	36.88	85.4	0
1/19/19 16:00	5.17	114	25.1	15.34	36.5	36.26	36.66	85	0
1/19/19 17:00	6.286	119.2	23.89	13.28	35.61	35.07	36.29	86.5	0
1/19/19 18:00	5.619	113.4	20.18	12.18	34.53	34.31	35.08	93.3	0.02
1/19/19 19:00	5.843	83.7	24.85	13.56	34.39	34.28	34.55	95	0.04
1/19/19 20:00	4.441	62.27	28.8	10.03	34.69	34.31	35.32	97.5	0.12
1/19/19 21:00	4.357	50.5	58.34	10.26	35.82	35.29	36.24	98.6	0.19
1/19/19 22:00	3.456	46.53	30.19	7.191	35.62	35.29	36.02	99.3	0.16
1/19/19 23:00	3.541	29.61	22.87	7.878	35.25	35.11	35.42	100	0.19
1/20/19 0:00	4.02	60.57	23.51	9.07	35.3	35.11	35.62	100	0.11
1/20/19 1:00	2.765	55.77	34.68	7.694	35.91	35.61	36.16	100	0.12
1/20/19 2:00	2.099	46.11	51.41	6.366	36.09	35.58	36.63	100	0.11
1/20/19 3:00	4.546	113.8	35.47	12.14	39.05	36.48	41.36	100	0.02
1/20/19 4:00	3.27	110.3	67.58	9.66	41.91	41.06	42.52	100	0
1/20/19 5:00	4.013	319.2	23.26	10.63	39.9	38.46	41.64	100	0
1/20/19 6:00	2.086	7.283	41.22	6.412	38.86	37.92	39.77	100	0
1/20/19 7:00	2.472	334.8	27.84	6.916	38.35	37.74	38.76	100	0.07
1/20/19 8:00	3.481	304.8	23.95	13.1	38.27	36.91	38.82	100	0.03
1/20/19 9:00	10.88	309.2	11.47	22.85	36.46	36.04	37.06	100	0
1/20/19 10:00	12.49	312.2	11.66	20.43	37.85	36.98	38.58	91.3	0
1/20/19 11:00	17.41	316	14.06	35.27	36.92	34.46	38.62	75.43	0
1/20/19 12:00	19.86	324.6	13.49	34.95	33.45	32.43	34.47	66.79	0
1/20/19 13:00	20.83	326.3	14.3	37.79	30.99	29.69	32.66	62.25	0
1/20/19 14:00	17.53	330.2	15.39	31.74	30.2	29.69	30.63	58.86	0
1/20/19 15:00	20.96	325.3	13.19	33.62	29.53	28.72	30.62	57	0

1/20/19 16:00	21.16	324.9	13.84	33.94	28.27	27.41	28.94	54.61	0
1/20/19 17:00	19.27	324.6	13.71	32.7	26.4	25.1	27.57	50.66	0
1/20/19 18:00	18.23	325.1	14.16	36.87	24.32	23.55	25.11	47.94	0
1/20/19 19:00	20.73	323.1	12.72	34.85	22.59	21.63	23.58	43.08	0
1/20/19 20:00	19.7	322.7	12.98	32.33	21.12	20.48	21.66	41.14	0
1/20/19 21:00	19.26	327.2	13.09	35.91	19.93	19.37	20.49	38.79	0
1/20/19 22:00	21.56	325.4	12.78	35.91	17.91	16.94	19.4	34.99	0
1/20/19 23:00	15.09	330.6	14.99	27.75	15.93	15.17	16.96	38.43	0
1/21/2019 0:00	15.92	323	14.63	35.08	14.28	13.5	15.18	39.39	0
1/21/19 1:00	16.52	320.6	13.41	28.58	13.09	12.74	13.54	44.36	0
1/21/19 2:00	16.19	324.5	13.32	31.83	12.52	12.17	12.79	44.83	0
1/21/19 3:00	17.78	326.8	14.08	34.85	11.9	11.7	12.24	44.35	0
1/21/19 4:00	17.88	322.5	13.48	37.14	11.41	11.23	11.72	44.32	0
1/21/19 5:00	15.45	318.4	14.29	26.61	11.15	10.97	11.33	45.91	0
1/21/19 6:00	16.85	314.7	12.94	31.14	10.9	10.83	11.03	49.45	0
1/21/19 7:00	17.18	314.2	11.23	28.03	10.98	10.9	11.15	48.94	0
1/21/19 8:00	17.62	320.5	13.06	38.38	10.75	10.54	10.96	44.69	0
1/21/19 9:00	18.7	320.1	13.7	36.46	11.23	10.83	11.8	43.4	0
1/21/19 10:00	20.72	324.6	13.33	36.23	11.98	11.26	12.79	41.51	0
1/21/19 11:00	20.4	320.1	14.39	41.91	13.25	12.1	14.27	39.21	0
1/21/19 12:00	23.19	321.2	13.02	35.04	14.42	13.83	15.34	37.97	0
1/21/19 13:00	20.74	323.3	13.63	34.62	15.65	14.66	16.22	36.73	0
1/21/19 14:00	19.43	329.8	15.88	31.42	16.62	15.93	17.35	36.19	0
1/21/19 15:00	17.2	326.8	16.49	30	17.88	17.01	18.46	35.65	0
1/21/19 16:00	16.45	327	13.82	32.52	18.23	17.91	18.6	35.87	0
1/21/19 17:00	14.89	323.8	13.59	26.43	17.96	17.52	18.83	36.06	0
1/21/19 18:00	13.08	326.2	14.9	22.26	16.95	16.5	17.56	38.69	0
1/21/19 19:00	11.47	321.1	12.82	20.29	16.39	16.14	16.63	41.24	0
1/21/19 20:00	10.7	318.5	13.27	21.57	15.97	15.46	16.31	44.23	0
1/21/19 21:00	11.53	321.3	13.05	20.43	15.48	15.2	15.82	46.77	0
1/21/19 22:00	9.88	324.6	13.8	19.1	14.88	14.41	15.21	48.92	0
1/21/19 23:00	7.933	329	17.4	18.37	14.06	13.79	14.58	51.79	0
1/22/19 0:00	7.535	315.4	13.92	16.08	13.66	13.43	14	53.56	0
1/22/19 1:00	6.432	318.2	12.37	13.65	13.15	12.79	13.5	54.93	0
1/22/19 2:00	7.105	318.4	10.67	13.88	12.8	12.43	13.15	55.47	0
1/22/19 3:00	6.632	325.6	13.13	11.77	12.37	12.2	12.59	57.72	0
1/22/19 4:00	5.237	340.1	14.21	11.59	12.18	11.84	12.52	57.73	0
1/22/19 5:00	5.645	322	16.14	10.12	11.87	11.59	12.2	60.07	0
1/22/19 6:00	5.153	314.7	17.61	8.89	11.92	11.7	12.21	61.28	0
1/22/19 7:00	4.092	333.1	20.06	7.649	11.44	11.23	11.74	63.33	0
1/22/19 8:00	3.792	342.2	15.04	8.11	11.61	11.23	12.58	62.14	0
1/22/19 9:00	4.893	325	14.41	8.47	14.29	12.57	16.04	57.32	0
1/22/19 10:00	2.866	325.6	38.87	6.916	18.05	15.89	20.02	48.24	0

1/22/19 11:00	2.793	297.2	44.67	8.24	21.55	19.66	23.4	40.69	0
1/22/19 12:00	2.575	335.9	51.67	7.328	24.07	22.43	25.51	36.86	0
1/22/19 13:00	2.808	219	75.88	8.15	27.7	25.5	29.92	32.83	0
1/22/19 14:00	4.071	190.5	39.96	10.95	29.37	27.92	30.57	29.52	0
1/22/19 15:00	4.727	189.1	38.35	11.18	30.68	29.8	31.86	27.33	0
1/22/19 16:00	5.471	192.9	24.86	11.68	31.32	30.89	32.38	24.83	0
1/22/19 17:00	4.742	186.1	26.28	10.85	30.41	29.76	31.17	26.76	0
1/22/19 18:00	4.371	186.4	22.37	12.09	29.53	29.26	29.8	29.36	0
1/22/19 19:00	4.649	190.1	20.97	10.44	29.2	29.08	29.39	32.37	0
1/22/19 20:00	5.706	189.4	18.8	13.01	29.09	28.86	29.3	33.4	0
1/22/19 21:00	5.93	185.1	21.08	13.83	28.82	28.5	29.12	35.5	0
1/22/19 22:00	5.894	186.8	19.32	12.41	28.4	27.93	28.57	38.52	0
1/22/19 23:00	4.818	182.1	21.75	11.54	27.95	27.81	28.34	43.05	0
1/23/19 0:00	5.949	180.1	21.97	12.09	28.41	28.17	28.64	44.86	0
1/23/19 1:00	5.908	186	19.48	12.82	28.69	28.46	28.83	44.18	0
1/23/19 2:00	5.73	187.1	20.79	12.27	28.82	28.75	28.99	43.07	0
1/23/19 3:00	6.089	182.3	20.61	13.19	28.73	28.64	28.86	43.35	0
1/23/19 4:00	6.573	185.5	19.93	15.34	29.05	28.72	29.32	42.4	0
1/23/19 5:00	6.559	189.5	19.9	13.47	30.08	29.26	31.57	39.7	0
1/23/19 6:00	9.45	196	18.54	20.43	31.74	31.39	32.36	36.57	0
1/23/19 7:00	10.22	200.9	16.56	18.27	33.36	32.22	33.84	36.95	0
1/23/19 8:00	6.657	193.3	18.65	17.5	33.36	33.01	33.73	38.94	0
1/23/19 9:00	6.255	193.1	19.06	11.72	34.5	33.71	35.44	40.42	0
1/23/19 10:00	7.825	198.5	18.58	14.7	36.32	35.47	36.92	44.27	0
1/23/19 11:00	8.33	199.3	15.96	16.95	38.31	36.92	39.63	48.34	0
1/23/19 12:00	7.895	195.5	18.71	17.27	41.46	39.55	43.06	53.66	0
1/23/19 13:00	7.404	194.8	19.89	17.31	44.24	43.05	45.1	57.66	0
1/23/19 14:00	3.86	185.1	22.96	9.11	45.81	44.89	46.85	56.29	0
1/23/19 15:00	8.26	199.3	18.43	18.78	48.48	46.84	49.11	61.33	0
1/23/19 16:00	5.907	194.5	19.79	12.23	48.72	48.57	48.9	61.58	0
1/23/19 17:00	5.165	190.6	19.33	10.44	48.59	48.24	48.87	63.52	0
1/23/19 18:00	5.39	190.1	18.38	12	47.78	47.38	48.25	67.56	0
1/23/19 19:00	3.651	195	22.48	8.29	47.4	47.12	47.78	69.27	0
1/23/19 20:00	2.793	230.6	21.33	5.45	45.6	44.56	47.23	71.29	0
1/23/19 21:00	1.975	231.9	29.05	5.679	44.29	44.02	44.57	70.76	0
1/23/19 22:00	1.378	174	37.6	3.618	43.88	43.66	44.2	71.73	0
1/23/19 23:00	1.358	281.3	53.55	3.893	44.07	43.51	44.79	74.18	0
1/24/19 0:00	2.196	193.6	48.8	5.908	44.59	43.59	45.22	76.47	0
1/24/19 1:00	2.159	141.8	38.1	5.542	44.89	43.98	47.35	90.8	0
1/24/19 2:00	4.84	171.1	20.63	11.63	50.93	47.34	52.98	99.9	0.06
1/24/19 3:00	5.699	184.9	21.09	14.47	53.54	52.97	53.77	99.7	0.09
1/24/19 4:00	7.354	180	21.07	17.27	54.44	53.58	55.07	99.7	0.07
1/24/19 5:00	8.61	181.5	21.93	18.69	55.62	54.95	56.44	98.2	0.03

1/24/19 6:00	8.87	183.1	23.2	20.24	56.65	56.32	57.02	97.4	0.03
1/24/19 7:00	9.11	179.4	22.74	27.62	57.03	56.5	57.58	97	0.03
1/24/19 8:00	10.93	183.1	22.01	22.9	57.86	57.12	58.28	96.3	0.02
1/24/19 9:00	9.22	186.9	19.53	19.42	58.13	57.87	58.46	97.3	0.02
1/24/19 10:00	8.4	187.1	19.92	19.05	58.6	58.38	59.04	97.8	0.06
1/24/19 11:00	8.52	327.2	21.52	18.5	54.01	52.39	59.13	96.6	0.32
1/24/19 12:00	6.84	333.7	15.82	14.56	51.87	51.59	52.39	97.7	0.19
1/24/19 13:00	15.8	325.4	13.47	34.49	48.37	46	51.66	89.7	0.14
1/24/19 14:00	13.78	321.2	13.02	24.92	44.38	43.22	46.09	88.3	0.05
1/24/19 15:00	16.06	325.7	15.91	34.12	42.97	42.07	43.96	78.3	0.01
1/24/19 16:00	17.49	326.5	14.17	30.78	40.89	39.76	42.15	65.19	0
1/24/19 17:00	12.54	329.7	17.74	27.39	38.45	36.98	39.77	63.93	0
1/24/19 18:00	12.83	313.9	14.69	23.68	36.57	36	37.03	62.14	0
1/24/19 19:00	9.58	320.2	14.73	20.7	35.49	34.96	36.07	62.52	0
1/24/19 20:00	8.77	319.6	13	19.24	34.57	34.06	35.04	62.84	0
1/24/19 21:00	8.58	318.7	11.05	16.67	33.83	33.33	34.27	63.17	0
1/24/19 22:00	5.174	323.5	14.57	11.22	33.56	33.15	33.81	64.95	0
1/24/19 23:00	7.368	319.1	10.72	15.48	33.34	32.86	33.88	66.17	0
1/25/19 0:00	5.692	305.2	12.59	10.35	32.68	32.36	33.18	67.37	0
1/25/19 1:00	6.924	303.2	11.91	12	32.59	32.28	32.97	66.91	0
1/25/19 2:00	7.788	306.9	13.68	14.56	32.24	31.89	32.51	65.52	0
1/25/19 3:00	7.111	309.1	11.56	13.24	31.89	31.56	32.07	65.75	0
1/25/19 4:00	6.459	286.6	22.04	14.38	32.56	31.89	32.87	65.44	0
1/25/19 5:00	4.842	294	28.15	13.88	32.82	32.57	32.97	65.49	0
1/25/19 6:00	6.568	315.7	12.42	12.14	32.45	32.25	32.66	64.02	0
1/25/19 7:00	5.144	296	18.55	11.04	32.2	31.32	32.57	60.58	0
1/25/19 8:00	3.702	292.9	14.15	9.25	31.7	31.13	32.77	62.33	0
1/25/19 9:00	5.624	289.6	21.57	11.22	33.61	32.76	34.2	60	0
1/25/19 10:00	7.655	288.6	21.49	17.82	34.65	33.62	35.66	54.48	0
1/25/19 11:00	11	280.1	21.58	23.82	36.18	35.64	37.17	44.87	0
1/25/19 12:00	11.19	300.5	19.49	21.53	36.15	35.55	36.66	46.07	0
1/25/19 13:00	11.77	310.2	15.92	24.18	36.4	35.54	37.31	46.75	0
1/25/19 14:00	11.89	306.1	16.21	22.9	36.97	35.72	37.88	39.35	0
1/25/19 15:00	11.3	300.6	21.75	21.02	37.19	36.48	38.03	35.49	0
1/25/19 16:00	9.62	305.2	18.23	18.96	36.35	35.72	36.92	32.13	0
1/25/19 17:00	9.26	309.4	14.3	17.68	35.26	34.16	35.91	29.07	0
1/25/19 18:00	6.454	311.6	16.76	15.48	32.79	31.53	34.21	29.34	0
1/25/19 19:00	5.159	322.9	10.7	9.34	30.78	30.12	31.65	33.68	0
1/25/19 20:00	4.457	340.3	12.43	10.12	30.14	29.33	30.85	33.89	0
1/25/19 21:00	4.462	341.8	15.04	8.34	29.23	28.6	29.74	34.99	0
1/25/19 22:00	3.434	345.5	15.9	9.3	28.49	28.06	28.83	35.83	0
1/25/19 23:00	1.123	11.13	40.49	2.611	27.52	26.18	28.31	38.66	0
1/26/19 0:00	1.019	136.2	71.76	2.748	26.24	25.21	27.21	44.87	0

1/26/19 1:00	1.796	53.5	59.8	4.946	24.55	23.22	25.9	54.03	0
1/26/19 2:00	0.777	126.8	56.33	2.427	23.96	23.04	25.02	62.45	0
1/26/19 3:00	0.596	123.7	34.82	2.015	24.28	24.09	24.6	59.53	0
1/26/19 4:00	0.498	28.52	8.91	2.427	22.67	21.56	24.2	66.96	0
1/26/19 5:00	0.676	32.88	11.17	2.382	20.93	19.76	21.71	75.71	0
1/26/19 6:00	1.319	27.74	22.31	2.84	19.31	18.85	19.85	88.7	0
1/26/19 7:00	0.711	51.75	51.91	2.656	18.71	18.42	18.96	91.1	0
1/26/19 8:00	1.321	15.27	19.11	3.114	19.65	18.93	20.29	89.6	0
1/26/19 9:00	0.881	39.88	38.36	3.481	23.84	19.79	29.29	77.24	0
1/26/19 10:00	2.896	160	35.32	8.98	30.59	28.68	32.48	49.51	0
1/26/19 11:00	3.073	168.2	36.27	10.63	32.36	31.38	33.24	44.26	0
1/26/19 12:00	4.349	173	37.64	9.07	33.46	32.58	34.02	41.19	0
1/26/19 13:00	3.636	175.4	35.17	9.11	34.26	33.66	35.04	40.76	0
1/26/19 14:00	4.063	165.5	32.96	8.93	35.93	34.56	36.56	35.3	0
1/26/19 15:00	3.882	207.5	31.59	8.93	36.76	36.19	37.57	28.87	0
1/26/19 16:00	3.291	206.1	30.02	8.11	37.94	36.62	39.34	28.02	0
1/26/19 17:00	1.758	194.9	55.12	6.87	37.01	36.26	38.73	30.22	0
1/26/19 18:00	1.181	84.7	27.21	2.565	35.44	34.78	36.31	34.59	0
1/26/19 19:00	2.462	69.57	31.73	4.717	33.53	32.29	35.09	40.7	0
1/26/19 20:00	2.385	48.91	26.23	4.626	32.38	31.6	33.15	49.7	0
1/26/19 21:00	1.407	70	34.86	3.114	31.26	30.55	31.85	53.48	0
1/26/19 22:00	0.928	126.8	41.85	4.214	30.03	28.71	30.68	55.64	0
1/26/19 23:00	2.344	28.96	12.49	3.481	27.43	26.18	28.72	66.82	0
1/27/19 0:00	2.557	33.43	14.34	4.809	26.39	25.39	27.19	71.78	0
1/27/19 1:00	1.032	45.06	31.47	3.572	25.21	24.16	26.41	78.67	0
1/27/19 2:00	0.766	93.1	33.27	3.023	25.13	24.52	26.3	82.2	0
1/27/19 3:00	0.794	93.8	32.24	3.16	26.03	25.03	27.12	88.3	0
1/27/19 4:00	0.511	127.3	33.25	2.107	26.2	25.06	27.02	90.6	0
1/27/19 5:00	1.294	127.8	17.59	3.114	27.29	26.8	27.73	89.4	0
1/27/19 6:00	1.171	176.7	44.18	4.443	27.58	26.76	28.64	88	0
1/27/19 7:00	2.033	183.1	25.79	4.626	28.3	27.85	28.64	81.3	0
1/27/19 8:00	2.531	188.2	22.24	7.374	28.89	28.24	30.52	70.96	0
1/27/19 9:00	7.39	193.1	18.13	17.31	33.26	30.52	35.31	55.31	0
1/27/19 10:00	7.893	201	20.34	16.26	37.69	35.33	39.8	45.95	0
1/27/19 11:00	8.36	203.4	17.99	14.66	40.22	39.73	40.63	40.16	0
1/27/19 12:00	6.435	207.9	20.65	15.8	40.97	40.63	41.65	39.99	0
1/27/19 13:00	6.623	213.1	21.63	14.66	42.21	41.61	42.72	39.76	0
1/27/19 14:00	7.263	203.4	16.25	13.97	43.68	42.51	44.89	39.83	0
1/27/19 15:00	6.14	211.6	19.93	12.32	46.23	44.89	46.79	39.89	0
1/27/19 16:00	5.132	236.7	24.32	12.09	46.8	46.55	47.32	41.71	0
1/27/19 17:00	3.602	244.7	20.98	8.15	46.14	45.5	46.56	44.17	0
1/27/19 18:00	3.552	237.5	24.06	9.02	45.01	43.98	45.53	46.39	0
1/27/19 19:00	2.666	293.6	21.38	5.404	42.61	41.46	44.02	52.02	0

1/27/19 20:00	0.872	50.32	65.02	2.748	41.19	40.55	42.44	55.57	0
1/27/19 21:00	2.498	340.7	39.46	7.236	40.39	39.54	41.13	56.07	0
1/27/19 22:00	2.989	342.4	26.11	9.89	39.4	38.86	39.99	54.05	0
1/27/19 23:00	5.494	345.6	18.1	11.04	38.32	37.5	38.97	44.69	0
1/28/19 0:00	5.892	341.2	15.8	12.27	36.76	36.11	37.52	37.7	0
1/28/19 1:00	5.277	354.7	19.19	10.9	35.26	34.27	36.12	42.24	0
1/28/19 2:00	5.498	353.6	16.64	11.68	33.43	32.58	34.28	46.38	0
1/28/19 3:00	4.231	354	18.66	11.4	31.79	30.84	32.66	47.73	0
1/28/19 4:00	4.828	354.8	19.61	9.89	30.55	30.19	30.82	47.29	0
1/28/19 5:00	4.949	352.7	20.92	9.62	29.42	28.6	30.29	42.9	0
1/28/19 6:00	4.906	354.2	20.74	10.4	28.51	28.06	28.97	39.22	0
1/28/19 7:00	4.288	5.35	22.21	9.94	27.55	27.05	28.21	40.65	0
1/28/19 8:00	5.205	10.54	22.57	11.36	26.47	26.04	27.19	45.8	0
1/28/19 9:00	4.255	28.43	28.55	11.77	25.9	25.57	26.11	49.57	0
1/28/19 10:00	5.055	32.38	27.53	12.18	26.31	25.24	27.82	47.11	0
1/28/19 11:00	4.412	56.66	29.73	8.98	27.53	26.83	28.07	42.09	0
1/28/19 12:00	4.807	43.33	30.97	10.72	28.62	27.74	29.19	36.79	0
1/28/19 13:00	3.347	65.53	46.34	9.98	30.77	28.53	32.91	31.68	0
1/28/19 14:00	3.092	124.3	56.46	8.29	33.72	32.36	35.48	26.58	0
1/28/19 15:00	3.413	40.36	53.52	8.15	34.96	34.13	36.71	23.8	0
1/28/19 16:00	2.793	50.27	42.84	6.549	35.32	34.28	36.06	21.94	0
1/28/19 17:00	4.148	128.2	33.25	9.43	35.49	34.24	36.49	23.33	0
1/28/19 18:00	3.979	128.8	20.73	10.17	32.99	31.78	34.28	26.65	0
1/28/19 19:00	3.177	130.3	19.06	6.824	30.77	30.12	31.81	29.72	0
1/28/19 20:00	2.789	124.8	12.35	4.946	29.55	29.15	30.15	32.85	0
1/28/19 21:00	2.862	110.8	15.83	5.038	28.71	28.35	29.25	37.91	0
1/28/19 22:00	2.975	122.8	16.72	7.328	27.99	27.74	28.4	42.88	0
1/28/19 23:00	2.99	142.9	17.8	7.191	27.67	27.45	27.88	46.36	0
1/29/19 0:00	2.741	143.3	17.64	6.366	27.4	27.27	27.6	49.28	0
1/29/19 1:00	2.946	137.5	17.02	6.549	27.35	27.23	27.52	52.72	0
1/29/19 2:00	2.928	137.3	18.12	7.053	27.59	27.41	27.81	56.33	0
1/29/19 3:00	2.854	138.2	21.32	6.824	28.11	27.74	28.36	61.01	0
1/29/19 4:00	2.79	137.6	20.4	5.908	28.46	28.28	28.79	67.2	0
1/29/19 5:00	4.01	148.1	21.78	9.57	29.05	28.75	29.26	75.05	0
1/29/19 6:00	4.756	144.3	20.68	12.69	29.6	29.18	30.12	78.85	0
1/29/19 7:00	5.153	142.2	20.15	11.45	30.23	30.01	30.58	82.8	0
1/29/19 8:00	3.461	149.2	25.05	9.71	30.99	30.52	31.63	83.5	0
1/29/19 9:00	3.864	154.7	27.76	8.98	32.5	31.6	33.38	80.1	0
1/29/19 10:00	4.201	170.8	26.71	10.49	33.98	33.37	34.37	76.15	0
1/29/19 11:00	3.657	182.1	25.36	9.89	34.63	34.31	34.88	75.47	0
1/29/19 12:00	4.45	179.6	26.97	10.4	35.5	34.71	36.16	74.61	0
1/29/19 13:00	4.15	197.6	23.97	9.94	36.31	35.87	36.58	74.85	0
1/29/19 14:00	2.093	269.5	34.43	6.046	34.58	33.95	36.25	88.7	0

1/29/19 15:00	2.096	318	19.73	4.305	33.16	32.5	34.01	96.1	0
1/29/19 16:00	3.299	277.9	31.63	6.366	32.35	32.22	32.54	99.2	0
1/29/19 17:00	3.107	324.3	34.02	6.504	31.99	31.75	32.33	99.7	0
1/29/19 18:00	0.612	341.6	5.474	3.71	31.72	31.57	31.89	99.9	0
1/29/19 19:00	0	0	0	0	31.5	31.35	31.63	100	0
1/29/19 20:00	0	0	0	0	30.82	30.05	31.39	99.8	0
1/29/19 21:00	0	0	0	0	28.58	27.28	30.09	90.4	0
1/29/19 22:00	0	0	0	0	25.88	24.56	27.34	73.16	0
1/29/19 23:00	0	0	0	0	23.57	22.54	24.57	71.2	0
1/30/19 0:00	0	0	0	0	21.25	20.3	22.54	76.26	0
1/30/19 1:00	0	0	0	0	20.37	19.97	20.79	73.09	0
1/30/19 2:00	0	0	0	0	20.01	19.22	20.58	63.9	0
1/30/19 3:00	0	0	0	0	19.05	18.56	19.51	59.92	0
1/30/19 4:00	0	0	0	0	16.73	14.99	18.56	67.5	0
1/30/19 5:00	0	0	0	0	13.88	13.11	14.99	80.9	0
1/30/19 6:00	0	0	0	0	13.14	12.71	13.66	85.6	0
1/30/19 7:00	0	0	0	0	11.99	11.26	13.01	88.3	0
1/30/19 8:00	0.035	170.2	0.687	5.588	13.55	11.41	18.13	83.7	0
1/30/19 9:00	4.67	167.9	20.07	15.48	20.65	18.13	23.27	67.04	0
1/30/19 10:00	8.37	191.2	20.64	18.09	24.49	23.3	26.05	60.54	0
1/30/19 11:00	13.11	202	18.16	27.21	27.71	26.04	29.09	50.24	0.01
1/30/19 12:00	13.62	204.2	18.49	27.66	30.43	29.11	31.93	44.18	0
1/30/19 13:00	16.46	247.7	45.35	36.14	29.63	20.96	32.33	50.58	0
1/30/19 14:00	16.77	324.5	11.73	28.67	21.84	20.66	23.38	67.17	0
1/30/19 15:00	17.38	313.6	14.1	29.68	22.93	20.62	24.48	42.45	0
1/30/19 16:00	18.97	318.1	13.96	32.47	19.47	17.62	20.73	40.46	0
1/30/19 17:00	17.89	321.6	13.71	31.33	17	15.67	17.9	38.1	0
1/30/19 18:00	16.17	317.8	15.89	29.08	14.45	13.5	15.68	36.25	0
1/30/19 19:00	12.28	317.9	14.52	23.17	12.79	12.02	13.58	35.07	0
1/30/19 20:00	12.97	313.8	14.25	26.52	11.17	10.54	12.09	35.56	0
1/30/19 21:00	12.24	319.5	13.41	23.22	10.01	9.28	10.55	36.43	0
1/30/19 22:00	8.83	321.2	14.71	16.63	8.88	8.45	9.4	39.46	0
1/30/19 23:00	5.977	359.3	36.02	14.61	7.564	6.637	8.54	42.37	0
1/31/2019 0:00	2.842	11.1	22.98	5.954	5.897	5.334	6.661	46.66	0
1/31/19 1:00	4.59	348.8	17.2	10.12	5.911	5.59	6.356	41.9	0
1/31/19 2:00	6.209	329.3	11.98	11.95	6.344	6.164	6.534	38.43	0
1/31/19 3:00	6.007	302.3	16.42	12.96	6.59	6.271	6.954	36.44	0
1/31/19 4:00	7.07	294.8	18.37	18.37	6.824	6.452	7.453	34.84	0
1/31/19 5:00	9.93	305.7	12.66	17.77	7.156	6.706	7.389	31.73	0
1/31/19 6:00	11.17	313.3	11.31	19.19	6.764	6.453	7.055	31.45	0
1/31/19 7:00	7.032	313.6	12.82	14.7	6.064	5.37	6.608	33.58	0
1/31/19 8:00	4.731	319.7	26.54	11.5	5.775	5.3	6.908	35	0
1/31/19 9:00	6.595	302.3	20.69	12.05	7.853	6.891	8.78	31.96	0

1/31/19 10:00	7.895	311.7	18.5	18.92	10.02	8.77	11.52	29.51	0
1/31/19 11:00	6.726	297.1	24.05	14.24	12.46	11.37	13.98	29.46	0
1/31/19 12:00	6.5	277.3	25.89	15.89	14.42	13.47	15.64	27.46	0
1/31/19 13:00	6.621	304.1	24.14	13.51	15.81	15.02	17.45	26.41	0
1/31/19 14:00	6.018	296.5	25.43	12	17.32	16.65	18.08	25.68	0
1/31/19 15:00	5.478	279.9	37.49	12.09	18.67	18.09	19.43	24.9	0
1/31/19 16:00	5.147	274.9	29.69	11.4	19.95	19.25	20.67	26.03	0
1/31/19 17:00	4.846	257.4	25.48	12.23	20.36	20.08	21.06	26.54	0
1/31/19 18:00	2.139	258.8	27.24	6.366	19.24	17.77	20.33	29.79	0
1/31/19 19:00	1.579	351.2	34.33	3.847	17.63	15.97	18.43	33.85	0
1/31/19 20:00	2.396	51.48	31.21	4.855	15.93	14.12	17.43	40.81	0
1/31/19 21:00	2.643	24.05	15.23	5.038	13.47	12.09	14.86	44.72	0
1/31/19 22:00	1.37	52.3	54.8	3.114	11.84	10.9	13.53	56.57	0
1/31/19 23:00	1.755	22.17	35.62	4.259	9.68	8.34	11.36	72.14	0