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Request IR-1:

Reference Report p. 7: “As with any forecast, there is a degree of uncertainty around actual future outcomes. In electricity forecasting, much of this uncertainty is due to the impact of variations in weather, energy efficiency program effectiveness, the health of the economy, government policy, the impact of electrification, changes in large customer loads, the number of electric appliances and end-use equipment installed, and changes in technology;” and the application of a general warming trend to annual HDD, CDD and peak period minimum temperature variables (p. 82).

(a) Please confirm that Appendix D includes the only scenario analysis or sensitivity analysis to these uncertainties performed by NS Power. If not confirmed, provide workpapers showing the assumptions and results.

(b) Please explain why Appendix D does not include any scenario or sensitivity analysis examining sensitivity to future changes in the general warming trend (i.e., a more pronounced trend in HDD, CDD and peak period minimum temperature).

(c) Please explain why Figure 53 does not identify the general warming trend as one of the forecast components affecting the difference in energy load between 2022 and 2032.

(d) If possible, please provide versions of Figure 53 for both energy and peak demand that includes the impact of the general warming trend.

Response IR-1:

(a) Confirmed. Weather (normal) and economics are the only uncertainties considered in Appendix D scenario analysis using Monte Carlo simulations.

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1 (b) Historical signal around the mean is not significant enough for scenario analysis.
2 Conceptually some of the uncertainty is already captured in the 20-year monthly averages
3 used for normal weather. It is expected that within a 10-year scope, seasonal uncertainties
4 are larger than those imposed by warming trends.

5
6 (c-d) The warming trend is included in the “Model” variable, it is not added after the fact like
7 the other variables in Figure 53.

8
9 The purpose of Figure 53 is not to show the impact of all variables in the model, it is to
10 show the impact of the underlying model (the “Model” line) which is made up primarily
11 of the XHeat, XCool and XOther variables, along with the items that are forecast outside
12 of the model (new customers, solar, EV, etc.) to give a better sense of the relative impact
13 of those items. The HDD and CDD trends are included in the underlying XHeat and XCool
14 variables which make up the regression model, they are not external to the regression like
15 solar and EV. Appendix B shows that the XHeat variable is function of annual HDD,
16 which includes the trend as discussed in section 4.2. Figure 9 of the report has the forecast
17 of annual HDD and CDD values that are included in the model over the forecast period;
18 without the trend variable the values would be static for the forecast period. For reference,
19 the impact of the trend variable is a reduction of 59 GWh in the Residential class (around
20 1 percent by 2032) and 16 GWh in the Commercial class (around 0.5 percent by 2032).

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Request IR-2:

Reference Report p. 10: “Produced in the winter of 2021-2022 and using information available at the time, this forecast covers the period of 2022-2032.”

(a) Please clarify when the 2021 load forecasts were finalized.

(b) For the major sources of information (economic inputs, load history, etc.) please clarify the date of the “information available at the time” and used in the forecasts.

(c) With respect to economic variable data obtained from the “Conference Board of Canada’s Economic Outlook,” please provide the most recent available economic data in electronic form.

Response IR-2:

(a) The CA has clarified that this question should reference the 2022 load forecast and not the 2021 load forecast. The 2022 load forecast models were largely completed in March 2022 and finalized in April 2022.

(b) Economic inputs are based on Conference Board of Canada’s five-year forecast from February 2022 (up to 2026) combined with the year-over-year changes from their 20- year forecast (for the years 2027-2032) released in January 2022. Load history and weather history up to the end of 2021 was available in January 2022. Solar data up to the end of 2021 was available in January 2022. Large customer surveys were completed by February 2022. EIA data was available in July of 2021.

(c) Please refer to NSUARB IR-3 Attachment 1.

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Request IR-3:

Reference Report p. 26: “A population weighted approach has been selected ... as geographic load data was not available.”

(a) Please describe and provide any geographic disaggregation of load data that NS Power has available, such as by transmission zone or substations.

(b) If NS Power does not have load data by transmission zone, please explain how NS Power determines load flows in transmission planning.

(c) Please discuss NS Power’s plan to develop geographic load data (e.g., by feeder) in the foreseeable future.

Response IR-3:

(a-c) Although load flows are used in transmission planning, they have not been evaluated as possible inputs for use in the load forecast. The billing data presently used in the forecast represents 1 to 2 months of consumption, which would introduce further uncertainty if it were disaggregated into smaller regional entities. The Company is reviewing how to integrate AMI data in order to provide more granular analysis.

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Request IR-4:

Reference Report pp. 43-44: “The management of charging in this scenario was based on minimizing the cost of electricity to charge with the electric rates referenced being the existing time of use tariffs that are currently in the pilot stage, coupled with vehicle-grid integration to smooth large spikes in charging that would occur during switches from peak to off-peak periods.”

(a) Please explain why E3 expects that managed charging will achieve a reduction of only 0.4 kW/vehicle below the unmanaged charging on-peak demand of 1.3 kW/vehicle. In your response, please provide all assumptions relied upon by E3 to reach this conclusion (e.g., system peak time) and confirm that these assumptions are substantially unchanged based on the updated load forecast and any available class load shape data or forecasts.

(b) Please provide NS Power’s current opinion regarding the impact of temperature, cloud cover, snow cover, precipitation and wind speed on EV loads.

(c) Please state whether NS Power has reviewed traffic data related to peak load periods, for example resulting from business or institutional closures on the day prior to a peak load event, to determine whether charging demand may be different during peak load events.

Response IR-4:

(a) The 1.3 kW/vehicle (compared to E3’s estimate of 0.9 kW/vehicle for the managed plus unmanaged peak used in the forecast) was the previous estimate for unmanaged charging peak. E3 provides an unmanaged peak estimate for LDV’s of 1.5 kW/vehicle based on a coincident peak time of a weekday evening in January at hour ending 1800, so the difference between the E3 models would be 0.6 kW/vehicle. Not all of the charging will

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1 be shifted off-peak in the forecast scenario, 30 percent of the vehicles remain unmanaged
2 and some of those that are managed may still require charging at peak times.
3

4 (b) No analysis has been done on all the variables mentioned, but temperature is known to
5 have an impact of EV loads as the passenger heating and cooling loads require additional
6 electricity, and temperatures impact the efficiency of batteries. E3 includes a seasonal
7 impact in their model through driving patterns and efficiencies.
8

9 (c) NS Power has not reviewed traffic data related to system peak periods.

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Request IR-5:

Reference Report pp. 57-58 regarding the DSM adjustments, please provide workpapers in electronic format with working formulas and the source of all data and assumptions fully documented demonstrating:

(a) Calculation of the DSM adjustment coefficients.

(b) Application of the DSM adjustment coefficients as shown in Figure 36.

Response IR-5:

(a) As described in section 4.6 of the Report, the coefficients are determined by the regression models. The inputs and outputs of the residential model is provided in 2022 Load Forecast Report Attachment 5 Residential Model, filed electronically, with the resulting coefficient in Appendix B on page 2 (MSales.AvgEESavingsProfiled = -0.512). The commercial and industrial model inputs, outputs and coefficient are provided in Synapse IR-16 Attachment 1 (MSales.EESavingsProfiled= -0.38).

(b) Please refer to Synapse IR-15 Attachment 1 for details regarding Figure 36 . In preparing this response NS Power identified that there was an inadvertent error when producing Figure 36 as the values in the last column used the wrong adjustment factor. The error in the figure only, not in the model. The corrected figure is set out below.

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1 REVISED Figure 36: Annual Forecast DSM Savings (incremental)
2

Year	Forecast Residential DSM savings (GWh)	Forecast Commercial and Industrial DSM savings (GWh)	DSM captured by Residential end use forecast (GWh)	DSM captured by Comm/Ind end use forecast (GWh)	DSM Adjustment for Residential with Coefficient (GWh)	DSM Adjustment for Comm/Ind with Coefficient (GWh)
2022	55.5	71.6	27.1	35.0	28.4	27.2
2023	69.3	51.4	33.8	25.1	35.5	19.5
2024	60.9	81.7	29.7	39.9	31.2	31.0
2025	65.6	83.9	32.0	40.9	33.6	31.9
2026	69.6	66.7	34.0	32.5	35.7	25.3
2027	71.6	65.5	34.9	32.0	36.6	24.9
2028	73.0	74.0	35.6	36.1	37.4	28.1
2029	73.7	61.4	35.9	30.0	37.7	23.3
2030	73.3	60.0	35.8	29.3	37.5	22.8
2031	74.1	56.5	36.2	27.6	37.9	21.5
2032	73.2	55.0	35.7	26.9	37.5	20.9

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Request IR-6:

Reference 2022 Load Forecast Report Appendix B Page 6 of 32, “Residential Load – Post Regression (GWh)” table.

(a) Please confirm that the “DSM captured by end uses” column is the “Total Res DSM” column, minus the “Res DSM Adjustment” column.

(b) Please list the parameters in the end use computation that could “capture DSM”.

(c) Please provide a specific example of the manner in which the end use inputs or parameters could have captured the 2022 DSM attributed to the end uses. For example, how much did the heating variable change due to Efficiency and Shell Integrity from the historical period to 2022, and how much does that reduce the regression result for 2022?

Response IR-6:

(a) Confirmed.

(b-c) The forecast is a regression model based on sales which include past DSM activity, and past DSM also has an influence on other inputs to the load forecast such as price, end use appliance efficiency and even the economic variables. NS Power does not have historic appliance level or building shell level DSM data, only annually reported savings at the class level. The treatment of DSM in the forecast is outlined in section 4.6 of the Report.

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Request IR-7:

Reference Appendix B, p. 32: “Although it was not possible to produce a peak model with an explicit DSM variable ...”

(a) Please confirm this refers to the DSM adjustment coefficients (pp. 57-58). If not confirmed, please explain.

(b) Please explain what is meant by “as the associated parameters are insignificant.” In your explanation, please provide all supporting analyses with workpapers in excel including all calculations, with source data identified and assumptions justified.

(c) Please explain how the impact on varying levels of DSM is reflected in the peak model, if the peak model fit analysis does not require DSM levels as an input variable.

Response IR-7:

(a) Confirmed.

(b) With DSM added as a coefficient, the regression model does not see it as reducing load over time but reallocates the other coefficients (they are all reduced slightly) such that DSM is seen as increasing peak load over time. The DSM variable would need to be assigned a negative coefficient by the regression model (like it is in the residential model) for it to be considered “significant” in the model, as DSM should reduce peak over time. The resulting coefficients with the DSM variable added are as follows:

Variable	Coefficient	StdErr	T-Stat	P-Value
mVarsNew.Cool_Var	0.830	0.399	2.078	4.02%
mVarsNew.Heat_Var	1.375	0.104	13.276	0.00%

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mVarsNew.Jan_Other	1.290	0.093	13.799	0.00%
mVarsNew.Feb_Other	1.236	0.101	12.266	0.00%
mVarsNew.Mar_Other	1.377	0.084	16.369	0.00%
mVarsNew.Apr_Other	1.570	0.047	33.165	0.00%
mVarsNew.May_Other	1.543	0.035	43.547	0.00%
mVarsNew.Jun_Other	1.622	0.031	52.206	0.00%
mVarsNew.Jul_Other	1.639	0.047	34.787	0.00%
mVarsNew.Aug_Other	1.511	0.053	28.496	0.00%
mVarsNew.Sep_Other	1.466	0.029	50.539	0.00%
mVarsNew.Oct_Other	1.538	0.033	47.316	0.00%
mVarsNew.Nov_Other	1.730	0.052	33.144	0.00%
mVarsNew.Dec_Other	1.646	0.084	19.662	0.00%
mBin.Year20Plus	18.079	14.773	1.224	22.38%
AnnualSavings.DSMDemSavings	0.290	0.101	2.866	0.50%

The model statistics are as follows:

Model Statistics	
Iterations	1
Adjusted Observations	120
Deg. of Freedom for Error	104
R-Squared	0.976
Adjusted R-Squared	0.973
AIC	7.870301
BIC	8.241966
F-Statistic	#NA
Prob (F-Statistic)	#NA
Log-Likelihood	-626.49066
Model Sum of Squares	9,931,770.617
Sum of Squared Errors	240,656.468
Mean Squared Error	2,314.00450
Std. Error of Regression	48.10410
Mean Abs. Dev. (MAD)	35.70558

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Model Statistics	
Mean Abs. % Err. (MAPE)	2.69%
Durbin-Watson Statistic	1.831
Durbin-H Statistic	#NA
Ljung-Box Statistic	29.57
Prob (Ljung-Box)	0.1994
Skewness	0.428
Kurtosis	2.925
Jarque-Bera	3.685
Prob (Jarque-Bera)	0.1584

- 1
- 2 (c) DSM amounts have been consistent over the historic period in the model, around 27 MW
- 3 per year, with a low of 21 MW in 2020 and a high of 34 MW in 2013 and were consistent
- 4 with the energy DSM savings. Since the assumption of the model is that the DSM included
- 5 in the underlying energy model is passed to the peak model, if the peak DSM amounts were
- 6 consistent with the energy amounts then the model should work as intended.

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Request IR-8:

Reference Report p. 59: “The non-weather variance in 2021 is mainly related to an increase in people working from home due to the COVID-19 pandemic and a higher number of new customers compared to forecast.” Also p. 60, “new customers will add to sales.”

(a) Please provide any analysis or information that NS Power is aware of suggesting that the higher number of new customers may relate to pandemic-driven migration patterns. Please also elaborate on related discussion found on p. 61.

(b) Does NS Power have reasons to expect that its residential model may continue to under forecast new residential customers for the next several years?

(c) Please explain how NS Power’s model takes into consideration the likelihood that new customers drive up new construction which is more efficient than the average residential property.

(d) Please explain how the forecast increase in population and customers is reflected in the commercial (General Service) models.

Response IR-8:

(a) NS Power does not have an analysis correlating the number of new customers with the pandemic. As shown in Figure 16 of the Report, the population of Nova Scotia started increasing in 2016, and the year over year growth actually dropped slightly in 2020 and 2021.

(b) No. Both provincial and municipal governments have discussed targets related to affordable housing and population growth, but no concrete policies or programs have been

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1 initiated to date that would indicate a large variation from the present housing completion
2 forecast provided by the Conference Board of Canada.

3
4 (c) New customer load is estimated separately from overall average use based on billing
5 analysis of new dwellings from 2018. These estimates incorporate the fact that most new
6 homes are electrically heated as well as the fact that they have more efficient building shells
7 than the overall average. New customers in the forecast period also use the structural index
8 to account for the fact that they will continue to be built to higher efficiencies.

9
10 (d) Population is not taken into account explicitly in the model; however, the economic
11 variables of non-manufacturing GDP and non-manufacturing employment are assumed to
12 incorporate overall changes in population in the province.

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Request IR-9:

Reference Report p. 59: “The COVID-19 impact to the Residential forecast is approximately +100 GWh in 2022 ...”

(a) Does “impact” refer to an estimated change in demand determined in an analysis, or to the magnitude of the COVID-19 variable applied to the forecast?

(b) Please provide any quantitative or qualitative analysis of the impact of any factors closely related to the COVID-19 pandemic on demand for any class or the system as a whole.

(c) Is NS Power conducting or does it plan to conduct any further analyses of the impact of the COVID-19 pandemic on demand?

Response IR-9:

(a) Impact refers to the load associated with the COVID-19 variable in the forecast.

(b) No such analysis was completed as part of the 2022 forecast.

(c) No.

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Request IR-10:

Reference Report p. 71: “Sales in this class have been flat for the last 10 years and are expected to grow at 0.7 percent annually over the forecast period due to underlying economic growth.”

(a) Identify the source and date of the economic forecast on which this statement is based.

(b) Provide the latest available version of the economic forecast.

(c) Please compare historical (flat) sales over the last 10 years to relevant underlying economic metrics over the same time period.

(d) Please explain what economic drivers are resulting in the forecast change from flat load to growth and why NS Power has confidence that those drivers will not be balanced out by other factors.

(e) Has the Company re-run its load forecasting models since producing this forecast, using updated economic inputs and any other inputs that can be updated? If so, provide the updated forecasts.

Response IR-10:

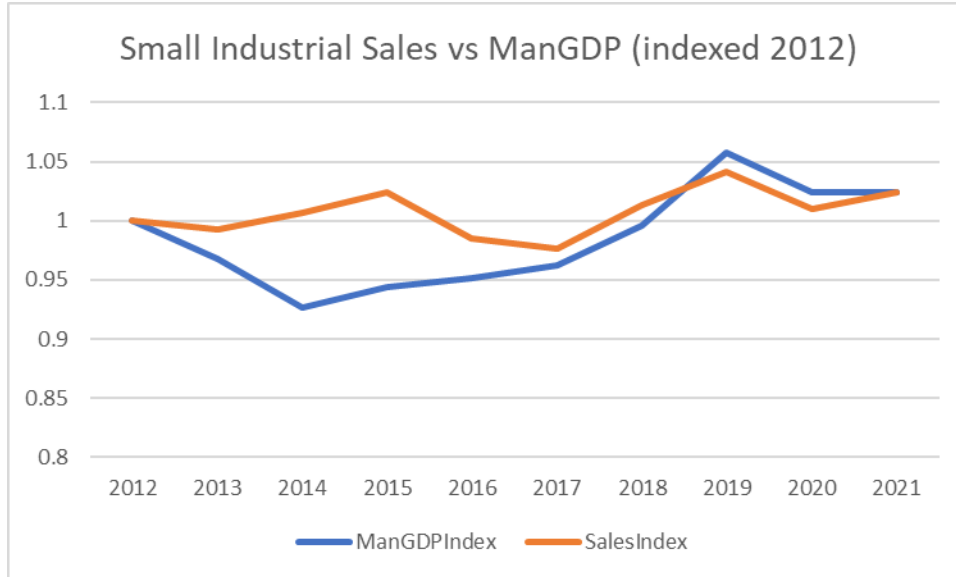
(a) The econometric forecast for the small industrial class uses manufacturing GDP as the economic driver as provided by the Conference Board of Canada in their February 5-year forecast plus their 20-year forecast produced in January for the years beyond 2026.

(b) Please refer to Figure 19 of the Report for the data series. The series is based on the Conference Board of Canada’s February 5-year forecast plus their 20-year forecast produced in January for the years beyond 2026.

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1 (c) The comparison of sales to manufacturing GDP is shown in the following figure:



5 (d) As described in the Report and part (a), the small industrial forecast is an econometric
6 forecast with manufacturing GDP as the economic driver, and, as shown in part (c), the
7 historic sales trend generally follows that variable. NS Power has no reason to anticipate a
8 material change within the timeframe of the load forecast.

9
10 (e) No.

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REDACTED

1 **Request IR-11:**

2
3 **With reference to the Report pp. 73-74: “One customer makes up over [redacted] of sales**
4 **within this class, and after a drop in sales in 2019 and 2020 operations started to return to**
5 **historic levels in 2021 ...”**

6
7 **(a) Please provide the amount of sales added by this customer in 2021.**

8
9 **(b) Please provide a year-over-year comparison for this customer’s sales for January-**
10 **May of 2022.**

11
12 **Response IR-11:**

13
14 **(a) The difference in sales between 2021 and 2020 was** [REDACTED]

15
16 **(b) Mid-year calculations are not part of the annual load forecast report; however, the**
17 **difference in sales for the Jan – May period between 2022 and 2021 was** [REDACTED]

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1 **Request IR-12:**

2
3 **Reference report p. 83 regarding the January 2022 peak, please provide monthly energy and**
4 **peak demand data for January – May 2022 in spreadsheet format.**

5
6 Response IR-12:

7
8 Mid-year calculations are not part of the annual load forecast report; however, the monthly energy
9 and peak demand data for January to May 2022 is provided in Attachment 1.

	Jan	Feb	Mar	Apr	May
Net System Requirement (GWh)	1,242	1,096	1,091	913	836
System Peak (MW)	2,216	2,112	2,024	1,720	1,422

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Request IR-13:

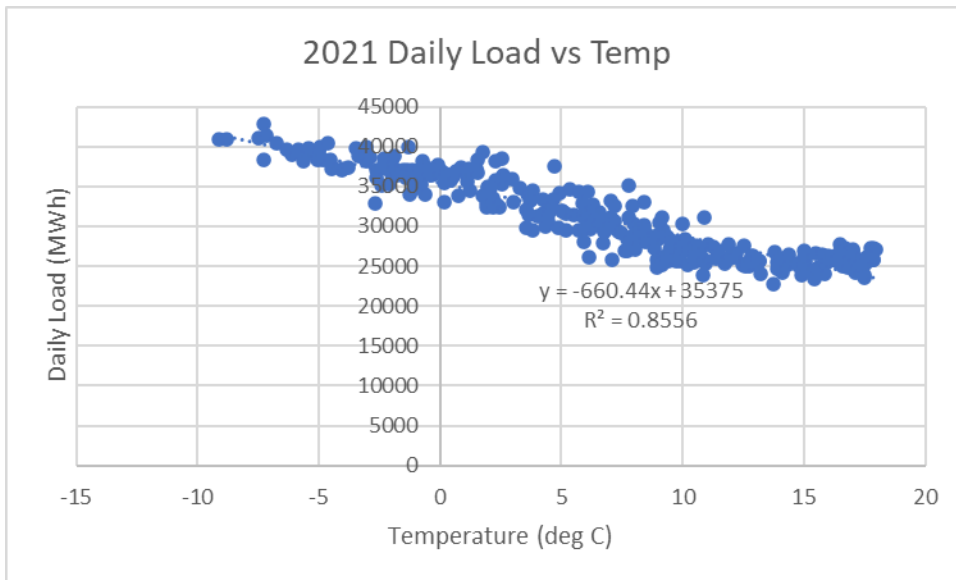
Reference NS Power’s 2021 Rebuttal Evidence (M10109), p. 10, where NS Power acknowledges the CA’s comment that “Data on weather circumstances other than temperature is also available,” but does not appear to respond to this comment, Exhibit N-2, NS Power response to CA IR-7(c-5), “Although other weather conditions have been examined in the past, temperature is the only weather condition used in the forecast as it is the predominant driver of load,” and the application of a general warming trend to annual HDD, CDD, and peak period minimum temperature variables (p. 82).

- (a) Please provide all analyses or studies that support the statement that “temperature is the only weather condition used in the forecast as it is the predominant driver of load.”.
- (b) Please identify what wind speed data variables are available from Environment Canada and whether NS Power views each of those variables as subjective or objective.
- (c) Please identify what precipitation data variables are available from Environment Canada and whether NS Power views each of those variables as subjective or objective.
- (d) Please identify what cloud cover data variables are available from Environment Canada and whether NS Power views each of those variables as subjective or objective.
- (e) Please identify what snow cover data variables are available from Environment Canada and whether NS Power views each of those variables as subjective or objective.
- (f) Please provide any other available data regarding general trends in cloud cover, snow cover, precipitation and wind speed.
- (g) Please provide NS Power’s best estimate (quantitative or qualitative) as to the impact of cloud cover, snow cover, precipitation, and wind speed on loads, including peak loads.

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Response IR-13:

- (a) The figure below shows daily load vs daily average temperatures for days with an average temperature below 18 degrees Celsius. The R squared value of the trendline (0.8556) indicates that 85.6 percent of the variance in load is explained by the temperature variable.



Please refer to see Attachment 1 for the data in relation to the figure.

- (b-f) The variables provided by Environment Canada are listed in the figure below which also provides NS Power's view on whether the variable is subjective or objective:

Variable	Unit	Populated?	Frequency	Type
Temperature	Degrees Celsius	Yes	Hourly	Objective
Dew point	Degrees Celsius	Yes	Hourly	Objective
Relative Humidity	Percentage	Yes	Hourly	Objective
Precipitation	mm	Sometimes	Hourly	Objective
Wind direction	Degrees	Yes	Hourly	Objective

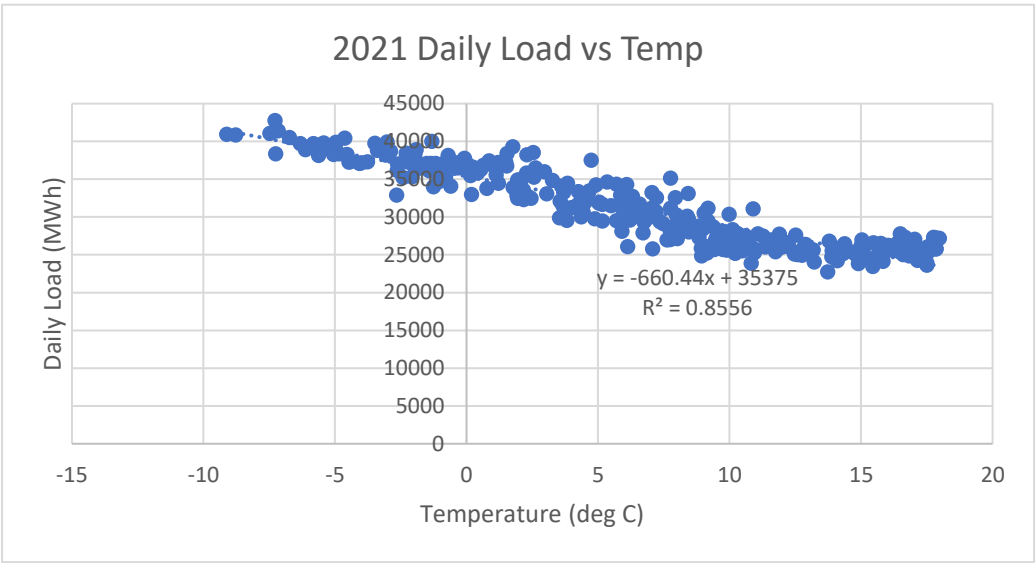
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Variable	Unit	Populated?	Frequency	Type
Wind speed	km/h	Yes	Hourly	Objective
Visibility	km	Sometimes	Hourly	Objective
Station pressure	kPa	Yes	Hourly	Objective
Humidex	N/A	Sometimes	Hourly	Objective
Windchill	N/A	Sometimes	Hourly	Objective
Weather	N/A	Sometimes	Hourly	Subjective
Max Temp	Degrees Celsius	Yes	Daily	Objective
Min Temp	Degrees Celsius	Yes	Daily	Objective
Mean Temp	Degrees Celsius	Yes	Daily	Objective
HDD	N/A	Yes	Daily	Objective
CDD	N/A	Yes	Daily	Objective
Total Rain	mm	Sometimes	Daily	Objective
Total Snow	cm	Sometimes	Daily	Objective
Total Precipitation	mm	Sometimes	Daily	Objective
Snow on ground	cm	Sometimes	Daily	Objective
Direction of max gusts	Degrees	Sometimes	Daily	Objective
Speed of max gusts	km/h	Sometimes	Daily	Objective

- 1
- 2 (g) NS Power did not perform this analysis as part of the load forecast. One or more of the
- 3 factors listed may have an impact on loads, but as described in the report temperature (and
- 4 likely lagged temperature) is the predominant driver, so the impact of other factors may
- 5 not be statistically significant when combined with temperature.

Date	Daily Avg T	Daily Load
1/1/2021	-0.59583	34063.7
1/2/2021	-0.46667	36903.43
1/3/2021	-0.8	35277.66
1/4/2021	0.154167	35477.29
1/5/2021	1.491667	37238.31
1/6/2021	1.533333	36728.87
1/7/2021	1.016667	36780.68
1/8/2021	-1.82917	37026
1/9/2021	-1.2625	34009.97
1/10/2021	-1.07917	34629.46
1/11/2021	-1.02917	35403.12
1/12/2021	1.945833	34892.33
1/13/2021	-0.8875	35007.91
1/14/2021	2.629167	36491.99
1/15/2021	0.770833	33776.86
1/16/2021	-0.25833	36518.99
1/17/2021	4.925	34237.41
1/18/2021	3.604167	34060.89
1/19/2021	-2.40833	35202.55
1/20/2021	-4.07083	37091.46
1/21/2021	-5.62917	38126.78
1/22/2021	-3.06667	38173.67
1/23/2021	-5.14167	38986.15
1/24/2021	-5.43333	39778.04
1/25/2021	-0.7	38154.42
1/26/2021	0.425	35824.11
1/27/2021	-0.35417	36488.83
1/28/2021	-1.96667	36595.06
1/29/2021	-3.3875	38823.37
1/30/2021	-5.48333	39613.01
1/31/2021	-4.84583	38358.39
2/1/2021	-2.21667	37270.58
2/2/2021	2.541667	38515.47
2/3/2021	6.579167	31697.72
2/4/2021	2.454167	32465.93
2/5/2021	1.916667	32855.15
2/6/2021	4.6625	33429.58
2/7/2021	-1.41667	36110.83
2/8/2021	-2.24583	38102.2
2/9/2021	-6.12083	38912.53
2/10/2021	-7.25833	38365
2/11/2021	-7.47917	41079.75
2/12/2021	-7.1625	41412.9
2/13/2021	-4.475	37252.74
2/14/2021	-4	37173.68
2/15/2021	-2.075	35289.2
2/16/2021	0.8625	37428.22
2/17/2021	0.058333	36927.97
2/18/2021	-5.81667	39700.59
2/19/2021	-4.40417	37347.94
2/20/2021	-4.99583	39317.97
2/21/2021	-4.57917	38188.76
2/22/2021	-1.96667	38232.72
2/23/2021	2.958333	35986.49
2/24/2021	2.5625	35281.26
2/25/2021	2.566667	36047.85
2/26/2021	-6.32083	39702.61
2/27/2021	-2.3	37780.38
2/28/2021	3.841667	34456.98
3/1/2021	1.195833	37229.86
3/2/2021	-6.7375	40498.14
3/3/2021	-3.025	39937.5
3/4/2021	-0.07917	37770.57
3/5/2021	-5.05	38287.38
3/6/2021	-3.76667	37302.08
3/7/2021	-1.35	37096.15
3/8/2021	-2.6375	36134.04
3/9/2021	-0.80417	36398.22
3/10/2021	1.208333	34460.46
3/11/2021	3.720833	33932.21
3/12/2021	9.175	31159.44
3/13/2021	2.083333	33266.16
3/14/2021	-2.6625	32895
3/15/2021	-8.77917	40838.71
3/16/2021	-9.1125	40932.69



Date	Daily Avg T	Daily Load
3/17/2021	-1.51667	37086.61
3/18/2021	3.266667	34840.25
3/19/2021	-4.5375	38278.82
3/20/2021	-1.42083	36579.54
3/21/2021	5.495833	31513.77
3/22/2021	7.970833	30251.31
3/23/2021	6.1375	29997.33
3/24/2021	5.7	29524.67
3/25/2021	3.8125	29559.45
3/26/2021	6.208333	29609.87
3/27/2021	2.3375	32724.5
3/28/2021	0.195833	32976.71
3/29/2021	6.308333	32708.49
3/30/2021	3.05	33083
3/31/2021	6.5875	30765.02
4/1/2021	7.35	29376.12
4/2/2021	4.875	29765.42
4/3/2021	1.941667	32468.57
4/4/2021	1.966667	34881
4/5/2021	5.029167	31846.3
4/6/2021	6.908333	29872.03
4/7/2021	8.154167	29516.83
4/8/2021	9.633333	27013.68
4/9/2021	9.804167	28049.26
4/10/2021	7.716667	28411
4/11/2021	4.3625	30002.82
4/12/2021	5.920833	29699.44
4/13/2021	5.166667	31653.92
4/14/2021	6.125	30958.67
4/15/2021	3.541667	29871.38
4/16/2021	2.170833	32320.09
4/17/2021	3.5625	32095.06
4/18/2021	4.229167	31625.48
4/19/2021	9.183333	29463.51
4/20/2021	9.570833	27478.95
4/21/2021	9.170833	26074.34
4/22/2021	5.908333	28096.85
4/23/2021	5.041667	31984.53
4/24/2021	11.075	27773.84
4/25/2021	7.079167	25770.68
4/26/2021	9.370833	28721.31
4/27/2021	6.6125	29954.15
4/28/2021	11.45417	26946.11
4/29/2021	8.925	25866.18
4/30/2021	6.7625	29420.93
5/1/2021	7.870833	28698.21
5/2/2021	7.829167	27590.65
5/3/2021	10.6	27518.84
5/4/2021	9.225	25740.42
5/5/2021	6.7125	27885.66
5/6/2021	6.75	29341.65
5/7/2021	8.495833	29063.71
5/8/2021	4.004167	31245.68
5/9/2021	8.025	28710.16
5/10/2021	8.845833	27253.8
5/11/2021	10.05833	27294.5
5/12/2021	7.783333	28330.94
5/13/2021	10.29583	27796.41
5/14/2021	11.35833	26028.14
5/15/2021	9.145833	25215.99
5/16/2021	10.95	25255.54
5/17/2021	9.9	25605.35
5/18/2021	12.13333	26136.16
5/19/2021	11.275	27478.6
5/20/2021	9.579167	26251.53
5/21/2021	9.75	25716.46
5/22/2021	10.89583	25878.34
5/23/2021	12.47083	25092.38
5/24/2021	8.941667	24870.23
5/25/2021	10.2125	26935.88
5/26/2021	13.72917	22741.08
5/27/2021	14.7875	25047.04
5/28/2021	9.420833	25700.27
5/29/2021	6.125	26097.38
5/30/2021	7.625	26948.73

Date	Daily Avg T	Daily Load
5/31/2021	9.470833	27056.94
6/1/2021	12.89583	26198.29
6/2/2021	17.84167	25776.59
6/3/2021	15.44583	23465.62
6/4/2021	14.3125	25157.3
6/5/2021	15.83333	24118.69
6/10/2021	12.91667	25268.11
6/11/2021	10.21667	25183.81
6/12/2021	10.825	23880.58
6/13/2021	14.09583	24222.51
6/14/2021	10.49583	25517.74
6/15/2021	12.90833	26344.55
6/16/2021	15.6	24846.71
6/17/2021	16.18333	25795.89
6/18/2021	16.82917	24831.57
6/19/2021	15.11667	24636.93
6/22/2021	16.4875	27756.09
6/23/2021	17.85833	27205.98
6/24/2021	16.70833	25882
6/25/2021	14.69167	25349.59
6/26/2021	17.85833	25784.51
6/29/2021	16.6625	26548.85
6/30/2021	17.03333	26907.87
7/2/2021	13.175	25608.07
7/3/2021	12.7625	24930.07
7/4/2021	13.175	25656.42
7/5/2021	17.575	26035.04
7/6/2021	15.86667	26250.7
7/8/2021	17.2875	25734.83
7/9/2021	16.675	27323.07
7/13/2021	16.6375	25696.71
7/14/2021	16.37083	26495.83
7/23/2021	17.09167	25801.16
7/24/2021	17.22083	24995.44
7/28/2021	17.75417	27291.49
7/29/2021	17.8	26950.88
7/30/2021	17.14583	24270.93
7/31/2021	17.5	23617.09
8/1/2021	17.50417	23933.31
8/2/2021	14.95833	24449.27
8/3/2021	17.53333	25297.01
8/9/2021	17.80833	27048.54
8/28/2021	17.45833	25540.65
8/29/2021	16.59583	25021.57
8/30/2021	17.97917	27160.49
9/3/2021	16.02917	26235.6
9/4/2021	13.8875	24704.37
9/5/2021	14.90417	23843.03
9/6/2021	16.8875	25624.78
9/8/2021	17.00417	26665.71
9/11/2021	16.96667	24871.89
9/12/2021	16.79167	25421.88
9/13/2021	16.43333	25438.33
9/14/2021	15.0125	25566.56
9/15/2021	15.08333	25625.77
9/17/2021	17.63333	25816.03
9/19/2021	16.80833	26237.45
9/20/2021	14.2125	25880.24
9/21/2021	15.475	26587.98
9/22/2021	16.9875	26178.37
9/24/2021	17.575	26098.05
9/27/2021	16.69167	26251.79
9/28/2021	17.525	26034.88
9/29/2021	14.2875	25291.02
9/30/2021	13.90417	25518.67
10/1/2021	12.56667	25346.21
10/2/2021	12.58333	25025.36
10/3/2021	11.74583	25381.59
10/4/2021	11.47917	26547.65
10/5/2021	11.99583	26328.79
10/6/2021	13.7875	26811.57
10/7/2021	14.99167	26132.06
10/8/2021	11.94583	25967.47
10/9/2021	9.2125	26089.24
10/10/2021	10.72083	26471.73

Date	Daily Avg T	Daily Load
10/11/2021	14.02083	25914.76
10/12/2021	15.75417	26505.84
10/13/2021	14.37917	26463.92
10/14/2021	15.03333	26970.68
10/15/2021	12.23333	26588.97
10/16/2021	12.8625	26187.48
10/17/2021	16.49167	26604.07
10/18/2021	12.87083	26365.82
10/19/2021	9.5375	27542.1
10/20/2021	8.991667	28397.69
10/21/2021	11.89167	27725.06
10/22/2021	17.0375	27070.42
10/23/2021	15.95	25453.89
10/24/2021	10.49167	26535.35
10/25/2021	8.454167	28012.11
10/26/2021	10.11667	28334.2
10/27/2021	9.029167	30509.59
10/28/2021	8.395833	30108.05
10/29/2021	9.533333	28220.01
10/30/2021	8.016667	27152.04
10/31/2021	13.06667	25763.5
11/1/2021	13.225	24037.89
11/2/2021	9.304167	25875.6
11/3/2021	7.741667	26990.59
11/4/2021	5.170833	29485.85
11/5/2021	3.666667	31470.03
11/6/2021	4.433333	30631.54
11/7/2021	7.0375	31170.78
11/8/2021	7.2125	30675.77
11/9/2021	8.433333	29715.12
11/10/2021	6.616667	30989.76
11/11/2021	4.429167	31496.71
11/12/2021	4.508333	31964.94
11/13/2021	12.51667	27594.23
11/14/2021	8.829167	28696.75
11/15/2021	7.758333	31153.83
11/16/2021	4.591667	32288.41
11/17/2021	2.158333	33560.07
11/18/2021	7.05	33252.42
11/19/2021	9.979167	30360.62
11/20/2021	2.220833	32829.84
11/21/2021	3.7	33260.44
11/22/2021	10.89583	31084.95
11/23/2021	6.041667	31951.61
11/24/2021	0.258333	36147.27
11/25/2021	4.258333	33368.33
11/26/2021	7.483333	29147.31
11/27/2021	5.895833	31257.2
11/28/2021	2.075	33544.03
11/29/2021	5.345833	34646.57
11/30/2021	1.125	35571.73
12/1/2021	1.766667	33918.94
12/2/2021	6.091667	34292.26
12/3/2021	5.854167	32913.77
12/4/2021	-2.61667	36997.62
12/5/2021	-1.16667	37075.8
12/6/2021	4.741667	37500.47
12/7/2021	7.220833	32568.2
12/8/2021	-0.59167	37381.32
12/9/2021	-3.4875	39735.68
12/10/2021	-4.9625	39883.8
12/11/2021	7.758333	35142.52
12/12/2021	7.945833	32563.46
12/13/2021	5.695833	34317.49
12/14/2021	2.279167	35828.41
12/15/2021	-2.89167	38715.01
12/16/2021	2.291667	38231.74
12/17/2021	8.429167	33111.61
12/18/2021	0.5375	36262.52
12/19/2021	-2.29583	38439.18
12/20/2021	-4.63333	40420.6
12/21/2021	1.754167	39281.82
12/22/2021	1.545833	38399.48
12/23/2021	-1.3125	40020.94
12/24/2021	-7.27917	42765.14

Date	Daily Avg T	Daily Load
12/25/2021	-1.90833	38891.24
12/26/2021	-1.8	36469.42
12/27/2021	-0.39167	37165.11
12/28/2021	-0.86667	37088.4
12/29/2021	0.641667	36849.66
12/30/2021	0.245833	36561.68
12/31/2021	2.075	34847.15

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Request IR-14:

Reference Report p. 86 Figure 60 “Weather-Normalized Firm Peak.” For items a-d below, please provide responses for the system as a whole and for each class. If both firm and system peak load data are available, please provide both where requested in items b, c, and e.

(a) Please provide weather-normalized sales and requirements.

(b) Provide documentation of the methodology for calculating weather-normalized sales, requirements and peak load. If the method is to multiply the difference in actual temperature vs the design temperature by a peak adjustment of 25 MW/°C, please explain whether any further adjustments are made in any circumstances.

(i) Please provide complete workpapers supporting all calculations (including the peak adjustment of 25 MW/°C) used to support the weather normalization and any adjustments.

(ii) If NS Power is continuing to apply an adjustment for reduced lighting load in morning hours relative to the more usual evening peak circumstances, please explain why it is appropriate to adjust this one end use when other end uses may also be different in the morning than in the evening.

(c) Provide workpapers for the calculation of weather-normalized sales, requirements and peak load.

(d) Provide actual and weather-adjusted sales for 2021.

(e) Provide the data used to construct Figure 60.

10 - Year Energy and Demand Forecast (2022 Load Forecast Report) (NSUARB M10569)
NSPI Responses to Consumer Advocate Information Requests

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Response IR-14:

(a) Weather normalized (WN) sales and net system requirement are provided in the figure below:

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
WN Sales (GWh)	9,635	10,362	10,352	10,318	10,023	10,136	10,419	10,262	10,146	10,366
WN Residential Sales (GWh)	4,234	4,327	4,409	4,430	4,269	4,377	4,484	4,596	4,766	4,761
WN Commercial Sales (GWh)	3,100	3,128	3,116	3,129	3,046	3,052	3,088	3,052	2,891	2,922
Industrial Sales (GWh)	1,997	2,598	2,522	2,456	2,444	2,461	2,614	2,388	2,340	2,480
Other Sales (GWh)	304	309	304	303	264	246	233	226	150	155
WN NSR (GWh)	10,571	11,148	11,044	11,001	10,813	10,889	11,190	10,955	10,843	11,087

(b-c) Weather adjusted actuals are not used in the forecast. They are provided for variance analysis and to compare historic series to the forecast series. The forecast models are based on an assumption of normal weather in the forecast period, and in the historic period use actual peaks and sales along with actual temperatures and HDD/CDD as inputs.

The weather adjustment uses a regression model that has as inputs daily energy (system load less large customer load) and weather variables in the form of daily HDD and CDD values by month. Binaries are added for day of week. The baseload is estimated by a constant, with the other variables accounting for the temperature dependent load.

10 - Year Energy and Demand Forecast (2022 Load Forecast Report) (NSUARB M10569)
NSPI Responses to Consumer Advocate Information Requests

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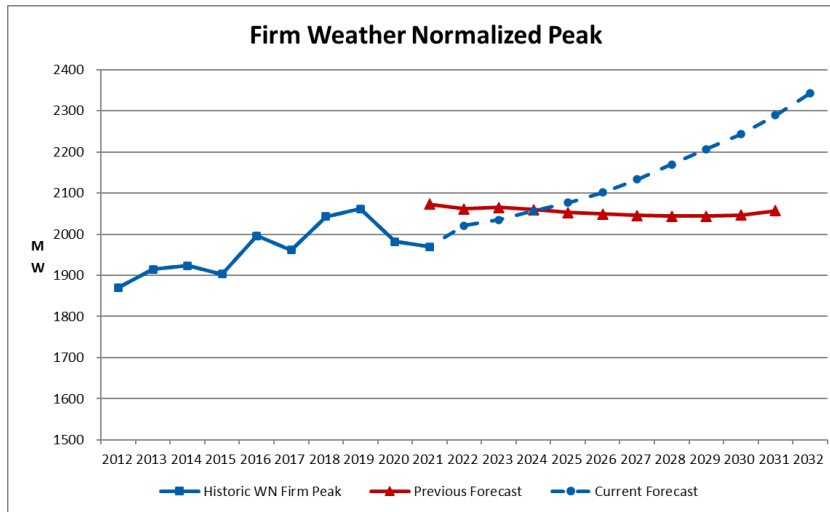
1 $DailyEnergy = Constant + b_1 \times HDD13 + b_2 \times HDD0 + b_3 \times Lag1HDD13 +$
2 $b_4 \times Lag2HDD13 + b_5 \times JanHDD13 + b_6 \times FebHDD13 + b_7 \times MarHDD13 + b_8 \times AprHDD13$
3 $+ b_9 \times OctHDD13 + b_{10} \times NovHDD13 + b_{11} \times DecHDD13 + b_{12} \times JulCDD18 +$
4 $b_{13} \times AugCDD13 + b_{14} \times SepCDD13 + \sum Binaries$

5
6 Please refer to Attachment 1 for the model inputs, outputs and coefficients used for the
7 2021 calculations, and to Attachment 2 for the corresponding sales adjustments. Monthly
8 totals based on actual daily temperatures are compared to the same calculation using 10-
9 year average temperature values, and the difference is the weather impact. The weather
10 impact is allocated to the residential (approximately 77 percent), commercial
11 (approximately 15 percent), and municipal (approximately 3 percent) on a monthly basis
12 with the remainder attributed to system losses.

13
14 Details for the weather normalization factor of 25MW/degree C were provided in response
15 to CA IR-31 in 2021 Load Forecast Report proceeding (M10178), a copy of which is
16 attached as Attachment 3. The methodology used is to multiply the difference in actual
17 temperature vs the design temperature of -13.7° Celsius by the peak adjustment. Prior to
18 2016 this value was 20 MW per degree; but based on the analysis referred to above the
19 factor has increased to 25 MW per degree since 2016. The adjustment for the morning
20 peak in 2019 in Figure 60 was inadvertently omitted from the Report and a copy of the
21 revised figure is provided below.

10 - Year Energy and Demand Forecast (2022 Load Forecast Report) (NSUARB M10569)
NSPI Responses to Consumer Advocate Information Requests

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1
2
3 An explanation of the adjustment in 2019 was provided in response to NSUARB IR-13, in
4 respect of the 2020 Load Forecast Report (M09776), a copy of which is attached as
5 Attachment 4. The adjustment was attributed primarily to lighting, but as described in that
6 IR it represents the difference between a morning and evening peak load, not specifically
7 lighting, and it would encompass many different end uses in addition to lighting.

8
9 (d) Actual and weather adjusted 2021 sales are provided in the following figure:

10

	Res	Comm	Ind	Other	Losses	NSR
2021 Actual	4,619	2,973	2,480	72	757	10,903
Est. Weather Impact	-141	-28		-3	-12	-184
2021 Weather Adjusted Actual	4,760	3,001	2,480	75	769	11,087

11
12 (e) Please refer to Attachment 5.

2018	4	22	22,499.64	6.65	0	0	0	0	6.65	0	0	0	0	0	0	0	1	0	0	0	8.27	10.31	0	0	0
2018	4	23	22,482.70	6.18	0	0	0	0	6.18	0	0	0	0	0	0	0	0	0	1	0	6.65	8.27	0	0	0
2018	4	24	21,170.24	4.73	0	0	0	0	4.73	0	0	0	0	0	0	0	0	0	0	0	6.18	6.65	0	0	0
2018	4	25	20,345.14	4.07	0	0	0	0	4.07	0	0	0	0	0	0	0	0	0	0	0	4.73	6.18	0	0	0
2018	4	26	20,978.42	4.32	0	0	0	0	4.32	0	0	0	0	0	0	0	0	0	0	0	4.07	4.73	0	0	0
2018	4	27	19,545.95	3.88	0	0	0	0	3.88	0	0	0	0	0	0	0	0	0	0	1	4.32	4.07	0	0	0
2018	4	28	19,228.70	4.14	0	0	0	0	4.14	0	0	0	0	0	0	0	0	1	0	0	3.88	4.32	0	0	0
2018	4	29	19,649.48	1.31	0	0	0	0	1.31	0	0	0	0	0	0	0	1	0	0	0	4.14	3.88	0	0	0
2018	4	30	22,001.23	6.47	0	0	0	0	6.47	0	0	0	0	0	0	0	0	0	1	0	1.31	4.14	0	0	0
2018	5	1	22,750.27	7.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.47	1.31	0	0	0
2018	5	2	21,185.78	2.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.54	6.47	0	0	0
2018	5	3	20,498.88	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.33	7.54	0	0	0
2018	5	4	21,512.15	6.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2.33	0	0	0
2018	5	5	19,194.12	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6.9	1	0	0	0
2018	5	6	18,879.08	1.08	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.02	6.9	0	0	0
2018	5	7	19,915.11	2.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1.08	0.02	0	0	0
2018	5	8	20,056.20	5.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.85	1.08	0	0	0
2018	5	9	19,686.73	2.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.42	2.85	0	0	0
2018	5	10	20,662.11	5.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.76	5.42	0	0	0
2018	5	11	19,550.83	0.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5.65	2.76	0	0	0
2018	5	12	19,660.34	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.77	5.65	0	0	0
2018	5	13	19,007.94	2.9	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5.5	0.77	0	0	0
2018	5	14	19,403.68	3.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2.9	5.5	0	0	0
2018	5	15	19,416.65	2.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.74	2.9	0	0	0
2018	5	16	19,541.81	4.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.59	3.74	0	0	0
2018	5	17	20,133.29	2.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.63	2.59	0	0	0
2018	5	18	19,771.28	2.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.23	4.63	0	0	0
2018	5	19	18,626.81	3.12	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2.45	2.23	0	0	0
2018	5	20	18,502.53	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3.12	2.45	0	0	0
2018	5	21	18,242.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3.12	0	0	0
2018	5	22	18,860.61	2.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	5	23	19,250.17	2.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.38	0	0	0	0
2018	5	24	19,979.86	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.46	2.38	0	0	0
2018	5	25	20,115.99	1.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	2.46	0	0	0
2018	5	26	18,816.32	0.93	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1.83	5	0	0	0
2018	5	27	18,977.97	5.32	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.93	1.83	0	0	0
2018	5	28	19,461.30	3.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5.32	0.93	0	0	0
2018	5	29	19,149.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.95	5.32	0	0	0
2018	5	30	19,073.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.95	0	0	0
2018	5	31	19,403.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	6	1	19,209.55	0	0	0	0	0	0	0	0	0	0	0	0	1.55	0	0	0	1	0	0	0	0	0
2018	6	2	18,388.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2018	6	3	19,337.98	5.49	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2018	6	4	20,736.59	7.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5.49	0	0	0	0
2018	6	5	21,709.05	6.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.31	5.49	0	0	0
2018	6	6	21,221.45	5.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.9	7.31	0	0	0
2018	6	7	20,262.92	3.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.85	6.9	0	0	0
2018	6	8	18,947.23	1.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3.65	5.85	0	0	0
2018	6	9	17,879.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1.25	3.65	0	0	0
2018	6	10	18,151.58	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1.25	0	0	0
2018	6	11	19,581.52	2.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2018	6	12	19,464.70	1.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.63	0	0	0	0
2018	6	13	18,804.15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.31	2.63	0	0	0
2018	6	14	19,926.81	5.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.31	0	0	0
2018	6	15	19,130.76	1.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5.11	0	0	0	0
2018	6	16	17,835.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1.33	5.11	0	0	0

2018	6	17	17,493.94	0.32	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1.33	0	0	0
2018	6	18	19,916.86	1.72	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.32	0	0	0	0
2018	6	19	19,410.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.72	0.32	0	0	0
2018	6	20	18,716.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.72	0	0	0
2018	6	21	18,531.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	6	22	18,113.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2018	6	23	16,834.44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2018	6	24	17,699.33	0	0	0	0	0	0	0	0	0	0	0	0.18	1	0	0	0	0	0	0	0	0
2018	6	25	19,457.95	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2018	6	26	19,426.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.49	0	0	0	0
2018	6	27	18,623.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.49	0	0	0
2018	6	28	18,554.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	6	29	19,182.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2018	6	30	18,594.38	0	0	0	0	0	0	0	0	0	0	0	2.07	0	1	0	0	0	0	0	0	0
2018	7	1	17,699.74	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2018	7	2	18,474.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2018	7	3	20,295.63	0	0	0	0	0	0	0	0	0	1.11	0	0	0	0	0	0	0	0	0	0	0
2018	7	4	21,544.93	0	0	0	0	0	0	0	0	0	7.01	0	0	0	0	0	0	0	0	0	0	0
2018	7	5	21,469.27	0	0	0	0	0	0	0	0	0	5.03	0	0	0	0	0	0	0	0	0	0	0
2018	7	6	20,310.30	0	0	0	0	0	0	0	0	0	0.75	0	0	0	0	0	1	0	0	0	0	0
2018	7	7	17,832.10	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2018	7	8	17,899.36	0	0	0	0	0	0	0	0	0	1.18	0	0	1	0	0	0	0	0	0	0	0
2018	7	9	19,567.65	0	0	0	0	0	0	0	0	0	0.75	0	0	0	0	1	0	0	0	0	0	0
2018	7	10	19,830.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	7	11	19,648.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	7	12	19,103.63	0	0	0	0	0	0	0	0	0	0.78	0	0	0	0	0	0	0	0	0	0	0
2018	7	13	18,952.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2018	7	14	17,601.19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2018	7	15	18,213.94	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2018	7	16	20,286.93	0	0	0	0	0	0	0	0	0	2.97	0	0	0	0	1	0	0	0	0	0	0
2018	7	17	20,606.00	0	0	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0	0	0	0	0
2018	7	18	20,427.69	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0
2018	7	19	19,984.40	0	0	0	0	0	0	0	0	0	0.88	0	0	0	0	0	0	0	0	0	0	0
2018	7	20	19,607.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2018	7	21	18,284.67	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2018	7	22	18,892.27	0	0	0	0	0	0	0	0	0	0.72	0	0	1	0	0	0	0	0	0	0	0
2018	7	23	21,675.68	0	0	0	0	0	0	0	0	0	3.03	0	0	0	0	1	0	0	0	0	0	0
2018	7	24	22,051.50	0	0	0	0	0	0	0	0	0	4.15	0	0	0	0	0	0	0	0	0	0	0
2018	7	25	21,818.66	0	0	0	0	0	0	0	0	0	4.38	0	0	0	0	0	0	0	0	0	0	0
2018	7	26	21,288.03	0	0	0	0	0	0	0	0	0	4.11	0	0	0	0	0	0	0	0	0	0	0
2018	7	27	21,132.19	0	0	0	0	0	0	0	0	0	2.61	0	0	0	0	0	1	0	0	0	0	0
2018	7	28	19,781.75	0	0	0	0	0	0	0	0	0	1.73	0	0	0	1	0	0	0	0	0	0	0
2018	7	29	19,759.39	0	0	0	0	0	0	0	0	0	2.77	0	0	1	0	0	0	0	0	0	0	0
2018	7	30	20,711.84	0	0	0	0	0	0	0	0	0	4.64	0	0	0	0	1	0	0	0	0	0	0
2018	7	31	20,895.91	0	0	0	0	0	0	0	0	0	4.29	0	0	0	0	0	0	0	0	0	0	0
2018	8	1	21,353.89	0	0	0	0	0	0	0	0	3.83	0	0	0	0	0	0	0	0	0	0	0	0
2018	8	2	21,002.63	0	0	0	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0
2018	8	3	21,723.00	0	0	0	0	0	0	0	0	5.71	0	0	0	0	0	0	1	0	0	0	0	0
2018	8	4	20,303.32	0	0	0	0	0	0	0	0	3.78	0	0	0	0	1	0	0	0	0	0	0	0
2018	8	5	19,271.02	0	0	0	0	0	0	0	0	2.19	0	0	0	1	0	0	0	0	0	0	0	0
2018	8	6	20,555.79	0	0	0	0	0	0	0	0	3.29	0	0	0	0	0	1	0	0	0	0	0	0
2018	8	7	22,144.31	0	0	0	0	0	0	0	0	3.35	0	0	0	0	0	0	0	0	0	0	0	0
2018	8	8	22,033.29	0	0	0	0	0	0	0	0	3.73	0	0	0	0	0	0	0	0	0	0	0	0
2018	8	9	21,395.16	0	0	0	0	0	0	0	0	2.44	0	0	0	0	0	0	0	0	0	0	0	0
2018	8	10	21,128.16	0	0	0	0	0	0	0	0	3.87	0	0	0	0	0	0	1	0	0	0	0	0
2018	8	11	18,790.27	0	0	0	0	0	0	0	0	2.39	0	0	0	0	1	0	0	0	0	0	0	0

2018	8	12	18,888.82	0	0	0	0	0	0	0	0	2.49	0	0	0	1	0	0	0	0	0	0	0
2018	8	13	20,416.85	0	0	0	0	0	0	0	0	1.52	0	0	0	0	0	1	0	0	0	0	0
2018	8	14	20,868.33	0	0	0	0	0	0	0	0	2.1	0	0	0	0	0	0	0	0	0	0	0
2018	8	15	21,390.53	0	0	0	0	0	0	0	0	2.13	0	0	0	0	0	0	0	0	0	0	0
2018	8	16	21,182.88	0	0	0	0	0	0	0	0	3.72	0	0	0	0	0	0	0	0	0	0	0
2018	8	17	19,609.36	0	0	0	0	0	0	0	0	0.43	0	0	0	0	0	0	1	0	0	0	0
2018	8	18	18,369.66	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2018	8	19	17,977.95	0	0	0	0	0	0	0	0	1.16	0	0	0	1	0	0	0	0	0	0	0
2018	8	20	19,087.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2018	8	21	19,337.09	0	0	0	0	0	0	0	0	0.52	0	0	0	0	0	0	0	0	0	0	0
2018	8	22	19,949.59	0	0	0	0	0	0	0	0	1.83	0	0	0	0	0	0	0	0	0	0	0
2018	8	23	20,303.78	0	0	0	0	0	0	0	0	2.67	0	0	0	0	0	0	0	0	0	0	0
2018	8	24	19,522.79	0	0	0	0	0	0	0	0	1.85	0	0	0	0	0	0	1	0	0	0	0
2018	8	25	18,331.36	0	0	0	0	0	0	0	0	1.85	0	0	0	0	1	0	0	0	0	0	0
2018	8	26	18,233.99	0	0	0	0	0	0	0	0	0.82	0	0	0	1	0	0	0	0	0	0	0
2018	8	27	20,176.00	0	0	0	0	0	0	0	0	3.3	0	0	0	0	0	1	0	0	0	0	0
2018	8	28	21,082.10	0	0	0	0	0	0	0	0	4.63	0	0	0	0	0	0	0	0	0	0	0
2018	8	29	21,678.69	0	0	0	0	0	0	0	0	6.2	0	0	0	0	0	0	0	0	0	0	0
2018	8	30	21,251.92	0	0	0	0	0	0	0	0	4.25	0	0	0	0	0	0	0	0	0	0	0
2018	8	31	19,124.86	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	1	0	0	0	0
2018	9	1	17,571.63	0	0	0	0	0	0	0	0	0	0	0.05	0	0	1	0	0	0	0	0	0
2018	9	2	17,603.59	0	0	0	0	0	0	0	0	0	0	0.54	0	1	0	0	0	0	0	0	0
2018	9	3	18,701.51	0	0	0	0	0	0	0	0	0	0	2.32	0	0	0	1	0	0	0	0	0
2018	9	4	20,145.53	0	0	0	0	0	0	0	0	0	0	2.84	0	0	0	0	0	0	0	0	0
2018	9	5	19,464.66	0	0	0	0	0	0	0	0	0	0	1.08	0	0	0	0	0	0	0	0	0
2018	9	6	20,055.50	0	0	0	0	0	0	0	0	0	0	3.95	0	0	0	0	0	0	0	0	0
2018	9	7	19,021.23	0	0	0	0	0	0	0	0	0	0	0.07	0	0	0	0	1	0	0	0	0
2018	9	8	17,212.95	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2018	9	9	17,268.39	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2018	9	10	18,422.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2018	9	11	19,046.35	0	0	0	0	0	0	0	0	0	0	0.38	0	0	0	0	0	0	0	0	0
2018	9	12	19,436.20	0	0	0	0	0	0	0	0	0	0	1.7	0	0	0	0	0	0	0	0	0
2018	9	13	19,323.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	9	14	19,183.02	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	1	0	0	0	0
2018	9	15	18,170.97	0	0	0	0	0	0	0	0	0	0	1.77	0	0	1	0	0	0	0	0	0
2018	9	16	18,344.69	0	0	0	0	0	0	0	0	0	0	1.44	0	1	0	0	0	0	0	0	0
2018	9	17	19,564.56	0	0	0	0	0	0	0	0	0	0	2.38	0	0	0	1	0	0	0	0	0
2018	9	18	19,450.59	0	0	0	0	0	0	0	0	0	0	2.25	0	0	0	0	0	0	0	0	0
2018	9	19	18,916.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	9	20	18,490.56	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	9	21	18,705.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.75	0	0	0
2018	9	22	17,791.86	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.75	0	0
2018	9	23	17,721.09	0.17	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2018	9	24	18,898.41	3.01	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.17	0	0	0
2018	9	25	20,077.02	3.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.01	0.17	0	0
2018	9	26	19,785.60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.28	3.01	0	0
2018	9	27	19,136.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.28	0	0
2018	9	28	19,171.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2018	9	29	17,727.59	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2018	9	30	17,940.06	0.44	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2018	10	1	18,998.78	0.63	0	0	0	0	0.63	0	0	0	0	0	0	0	0	1	0	0.44	0	0	0
2018	10	2	20,341.86	2.47	0	0	0	0	2.47	0	0	0	0	0	0	0	0	0	0	0.63	0.44	0	0
2018	10	3	20,139.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.47	0.63	0	0
2018	10	4	18,931.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.47	0	0
2018	10	5	18,682.67	0.01	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2018	10	6	18,691.28	2.82	0	0	0	0	2.82	0	0	0	0	0	0	0	1	0	0	0.01	0	0	0

2018	10	7	19,388.44	1.74	0	0	0	0	1.74	0	0	0	0	0	0	1	0	0	0	2.82	0.01	0	0	0
2018	10	8	19,615.97	3.87	0	0	0	0	3.87	0	0	0	0	0	0	0	0	1	0	1.74	2.82	0	0	0
2018	10	9	20,402.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.87	1.74	0	0	0
2018	10	10	19,683.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.87	0	0	0
2018	10	11	21,656.44	4.94	0	0	0	0	4.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	10	12	20,787.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.94	0	0	0	0
2018	10	13	20,151.92	4.28	0	0	0	0	4.28	0	0	0	0	0	0	0	1	0	0	0	4.94	0	0	0
2018	10	14	20,754.57	5.75	0	0	0	0	5.75	0	0	0	0	0	0	1	0	0	0	4.28	0	0	0	0
2018	10	15	21,153.37	2.88	0	0	0	0	2.88	0	0	0	0	0	0	0	0	1	0	5.75	4.28	0	0	0
2018	10	16	20,092.24	0.9	0	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	2.88	5.75	0	0	0
2018	10	17	21,710.08	4.46	0	0	0	0	4.46	0	0	0	0	0	0	0	0	0	0	0.9	2.88	0	0	0
2018	10	18	23,320.44	8.37	0	0	0	0	8.37	0	0	0	0	0	0	0	0	0	0	4.46	0.9	0	0	0
2018	10	19	24,005.26	9.56	0	0	0	0	9.56	0	0	0	0	0	0	0	0	0	1	8.37	4.46	0	0	0
2018	10	20	20,804.64	0.55	0	0	0	0	0.55	0	0	0	0	0	0	0	1	0	0	9.56	8.37	0	0	0
2018	10	21	19,793.42	2.44	0	0	0	0	2.44	0	0	0	0	0	0	1	0	0	0	0.55	9.56	0	0	0
2018	10	22	23,222.61	9.33	0	0	0	0	9.33	0	0	0	0	0	0	0	0	1	0	2.44	0.55	0	0	0
2018	10	23	23,728.24	7.53	0	0	0	0	7.53	0	0	0	0	0	0	0	0	0	0	9.33	2.44	0	0	0
2018	10	24	21,451.45	1.92	0	0	0	0	1.92	0	0	0	0	0	0	0	0	0	0	7.53	9.33	0	0	0
2018	10	25	23,003.31	8.52	0	0	0	0	8.52	0	0	0	0	0	0	0	0	0	0	1.92	7.53	0	0	0
2018	10	26	24,671.07	10.73	0	0	0	0	10.73	0	0	0	0	0	0	0	0	0	1	8.52	1.92	0	0	0
2018	10	27	25,351.04	10.44	0	0	0	0	10.44	0	0	0	0	0	0	0	1	0	0	10.73	8.52	0	0	0
2018	10	28	21,371.20	0.81	0	0	0	0	0.81	0	0	0	0	0	0	1	0	0	0	10.44	10.73	0	0	0
2018	10	29	20,013.41	1.77	0	0	0	0	1.77	0	0	0	0	0	0	0	0	1	0	0.81	10.44	0	0	0
2018	10	30	20,996.99	3.51	0	0	0	0	3.51	0	0	0	0	0	0	0	0	0	0	1.77	0.81	0	0	0
2018	10	31	22,172.34	6.11	0	0	0	0	6.11	0	0	0	0	0	0	0	0	0	0	3.51	1.77	0	0	0
2018	11	1	22,223.51	3.83	0	0	0	0	0	3.83	0	0	0	0	0	0	0	0	0	6.11	3.51	0	0	0
2018	11	2	21,373.05	1.01	0	0	0	0	0	1.01	0	0	0	0	0	0	0	0	1	3.83	6.11	0	0	0
2018	11	3	19,444.07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1.01	3.83	0	0	0
2018	11	4	21,568.49	5.04	0	0	0	0	0	5.04	0	0	0	0	0	1	0	0	0	0	1.01	0	0	0
2018	11	5	23,438.63	8.08	0	0	0	0	0	8.08	0	0	0	0	0	0	0	1	0	5.04	0	0	0	0
2018	11	6	22,482.09	3.03	0	0	0	0	0	3.03	0	0	0	0	0	0	0	0	0	8.08	5.04	0	0	0
2018	11	7	20,081.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.03	8.08	0	0	0
2018	11	8	21,239.18	3.97	0	0	0	0	0	3.97	0	0	0	0	0	0	0	0	0	0	3.03	0	0	0
2018	11	9	22,367.15	6.6	0	0	0	0	0	6.6	0	0	0	0	0	0	0	0	1	3.97	0	0	0	0
2018	11	10	22,781.72	4.83	0	0	0	0	0	4.83	0	0	0	0	0	0	1	0	0	6.6	3.97	0	0	0
2018	11	11	24,149.61	10.13	0	0	0	0	0	10.13	0	0	0	0	0	1	0	0	0	4.83	6.6	0	0	0
2018	11	12	26,674.39	12.23	0	0	0	0	0	12.23	0	0	0	0	0	0	0	1	0	10.13	4.83	0	0	0
2018	11	13	27,327.29	9.43	0	0	0	0	0	9.43	0	0	0	0	0	0	0	0	0	12.23	10.13	0	0	0
2018	11	14	29,299.30	12.92	0	0	0	0	0	12.92	0	0	0	0	0	0	0	0	0	9.43	12.23	0	0	0
2018	11	15	31,307.36	16.4	3.4	0	0	0	0	16.4	0	0	0	0	0	0	0	0	0	12.92	9.43	0	0	0
2018	11	16	29,862.92	13.05	0.05	0	0	0	0	13.05	0	0	0	0	0	0	0	0	1	16.4	12.92	0	0	0
2018	11	17	27,363.14	11.28	0	0	0	0	0	11.28	0	0	0	0	0	0	1	0	0	13.05	16.4	0	0	0
2018	11	18	26,766.66	12.62	0	0	0	0	0	12.62	0	0	0	0	0	0	0	0	0	11.28	13.05	0	0	0
2018	11	19	28,979.11	12.9	0	0	0	0	0	12.9	0	0	0	0	0	0	0	1	0	12.62	11.28	0	0	0
2018	11	20	26,993.49	9.88	0	0	0	0	0	9.88	0	0	0	0	0	0	0	0	0	12.9	12.62	0	0	0
2018	11	21	27,163.18	10.89	0	0	0	0	0	10.89	0	0	0	0	0	0	0	0	0	9.88	12.9	0	0	0
2018	11	22	32,826.09	20.33	7.33	0	0	0	0	20.33	0	0	0	0	0	0	0	0	0	10.89	9.88	0	0	0
2018	11	23	34,673.45	20.27	7.27	0	0	0	0	20.27	0	0	0	0	0	0	0	0	1	20.33	10.89	0	0	0
2018	11	24	29,331.00	11.04	0	0	0	0	0	11.04	0	0	0	0	0	0	1	0	0	20.27	20.33	0	0	0
2018	11	25	27,503.41	10.08	0	0	0	0	0	10.08	0	0	0	0	0	1	0	0	0	11.04	20.27	0	0	0
2018	11	26	27,608.83	11.63	0	0	0	0	0	11.63	0	0	0	0	0	0	0	1	0	10.08	11.04	0	0	0
2018	11	27	28,362.01	9.48	0	0	0	0	0	9.48	0	0	0	0	0	0	0	0	0	11.63	10.08	0	0	0
2018	11	28	26,041.18	7.12	0	0	0	0	0	7.12	0	0	0	0	0	0	0	0	0	9.48	11.63	0	0	0
2018	11	29	30,758.50	11.78	0	0	0	0	0	11.78	0	0	0	0	0	0	0	0	0	7.12	9.48	0	0	0
2018	11	30	28,418.25	11.23	0	0	0	0	0	11.23	0	0	0	0	0	0	0	0	1	11.78	7.12	0	0	0
2018	12	1	27,936.97	12.19	0	0	0	0	0	0	12.19	0	0	0	0	0	1	0	0	11.23	11.78	0	0	0

2019	1	27	28,843.90	12.41	0	12.41	0	0	0	0	0	0	0	0	0	0	0	0	13.68	8.06	0	0	0
2019	1	28	29,464.50	12.44	0	12.44	0	0	0	0	0	0	0	0	0	0	0	1	12.41	13.68	0	0	0
2019	1	29	33,296.28	19.44	6.44	19.44	0	0	0	0	0	0	0	0	0	0	0	0	12.44	12.41	0	0	0
2019	1	30	31,701.49	13.25	0.25	13.25	0	0	0	0	0	0	0	0	0	0	0	0	19.44	12.44	0	0	0
2019	1	31	33,886.86	18.99	5.99	18.99	0	0	0	0	0	0	0	0	0	0	0	0	13.25	19.44	0	0	0
2019	2	1	37,106.70	22.03	9.03	0	22.03	0	0	0	0	0	0	0	0	0	0	1	18.99	13.25	0	0	0
2019	2	2	35,220.15	19.77	6.77	0	19.77	0	0	0	0	0	0	0	0	0	1	0	22.03	18.99	0	0	0
2019	2	3	33,648.72	19.4	6.4	0	19.4	0	0	0	0	0	0	0	0	1	0	0	19.77	22.03	0	0	0
2019	2	4	31,833.17	12.96	0	0	12.96	0	0	0	0	0	0	0	0	0	0	1	19.4	19.77	0	0	0
2019	2	5	28,633.34	9.71	0	0	9.71	0	0	0	0	0	0	0	0	0	0	0	12.96	19.4	0	0	0
2019	2	6	30,307.03	14	1	0	14	0	0	0	0	0	0	0	0	0	0	0	9.71	12.96	0	0	0
2019	2	7	31,869.72	16.36	3.36	0	16.36	0	0	0	0	0	0	0	0	0	0	0	14	9.71	0	0	0
2019	2	8	29,869.18	10.91	0	0	10.91	0	0	0	0	0	0	0	0	0	0	1	16.36	14	0	0	0
2019	2	9	32,974.23	17.19	4.19	0	17.19	0	0	0	0	0	0	0	0	0	1	0	10.91	16.36	0	0	0
2019	2	10	35,650.35	19.12	6.12	0	19.12	0	0	0	0	0	0	0	0	1	0	0	17.19	10.91	0	0	0
2019	2	11	36,687.61	20.8	7.8	0	20.8	0	0	0	0	0	0	0	0	0	0	1	19.12	17.19	0	0	0
2019	2	12	34,938.29	19.35	6.35	0	19.35	0	0	0	0	0	0	0	0	0	0	0	20.8	19.12	0	0	0
2019	2	13	33,825.20	15.53	2.53	0	15.53	0	0	0	0	0	0	0	0	0	0	0	19.35	20.8	0	0	0
2019	2	14	31,389.63	15.4	2.4	0	15.4	0	0	0	0	0	0	0	0	0	0	0	15.53	19.35	0	0	0
2019	2	15	31,840.28	16.59	3.59	0	16.59	0	0	0	0	0	0	0	0	0	0	1	15.4	15.53	0	0	0
2019	2	16	27,988.81	9.75	0	0	9.75	0	0	0	0	0	0	0	0	0	1	0	16.59	15.4	0	0	0
2019	2	17	29,512.25	15.67	2.67	0	15.67	0	0	0	0	0	0	0	0	1	0	0	9.75	16.59	0	0	0
2019	2	18	33,120.41	19.27	6.27	0	19.27	0	0	0	0	0	0	0	0	0	0	1	15.67	9.75	0	0	0
2019	2	19	35,331.91	21.5	8.5	0	21.5	0	0	0	0	0	0	0	0	0	0	0	19.27	15.67	0	0	0
2019	2	20	37,400.92	22.78	9.78	0	22.78	0	0	0	0	0	0	0	0	0	0	0	21.5	19.27	0	0	0
2019	2	21	36,269.31	19.77	6.77	0	19.77	0	0	0	0	0	0	0	0	0	0	0	22.78	21.5	0	0	0
2019	2	22	32,249.24	17.33	4.33	0	17.33	0	0	0	0	0	0	0	0	0	0	1	19.77	22.78	0	0	0
2019	2	23	32,050.19	18.09	5.09	0	18.09	0	0	0	0	0	0	0	0	0	1	0	17.33	19.77	0	0	0
2019	2	24	32,933.19	18.26	5.26	0	18.26	0	0	0	0	0	0	0	0	1	0	0	18.09	17.33	0	0	0
2019	2	25	30,866.81	12.29	0	0	12.29	0	0	0	0	0	0	0	0	0	0	1	18.26	18.09	0	0	0
2019	2	26	36,630.14	21.45	8.45	0	21.45	0	0	0	0	0	0	0	0	0	0	0	12.29	18.26	0	0	0
2019	2	27	39,372.83	24.44	11.44	0	24.44	0	0	0	0	0	0	0	0	0	0	0	21.45	12.29	0	0	0
2019	2	28	36,178.04	21.86	8.86	0	21.86	0	0	0	0	0	0	0	0	0	0	0	24.44	21.45	0	0	0
2019	3	1	33,307.12	17.73	4.73	0	0	17.73	0	0	0	0	0	0	0	0	0	1	21.86	24.44	0	0	0
2019	3	2	31,856.28	16.07	3.07	0	0	16.07	0	0	0	0	0	0	0	0	1	0	17.73	21.86	0	0	0
2019	3	3	31,020.89	17.45	4.45	0	0	17.45	0	0	0	0	0	0	0	1	0	0	16.07	17.73	0	0	0
2019	3	4	33,091.52	15.29	2.29	0	0	15.29	0	0	0	0	0	0	0	0	0	1	17.45	16.07	0	0	0
2019	3	5	31,354.12	16.24	3.24	0	0	16.24	0	0	0	0	0	0	0	0	0	0	15.29	17.45	0	0	0
2019	3	6	33,082.22	19.5	6.5	0	0	19.5	0	0	0	0	0	0	0	0	0	0	16.24	15.29	0	0	0
2019	3	7	35,259.60	22.57	9.57	0	0	22.57	0	0	0	0	0	0	0	0	0	0	19.5	16.24	0	0	0
2019	3	8	34,847.16	19.84	6.84	0	0	19.84	0	0	0	0	0	0	0	0	0	1	22.57	19.5	0	0	0
2019	3	9	29,482.88	13.69	0.69	0	0	13.69	0	0	0	0	0	0	0	0	1	0	19.84	22.57	0	0	0
2019	3	10	31,262.95	17.85	4.85	0	0	17.85	0	0	0	0	0	0	0	1	0	0	13.69	19.84	0	0	0
2019	3	11	28,262.90	9.45	0	0	0	9.45	0	0	0	0	0	0	0	0	0	1	17.85	13.69	0	0	0
2019	3	12	28,196.50	12.33	0	0	0	12.33	0	0	0	0	0	0	0	0	0	0	9.45	17.85	0	0	0
2019	3	13	27,701.25	13.42	0.42	0	0	13.42	0	0	0	0	0	0	0	0	0	0	12.33	9.45	0	0	0
2019	3	14	27,432.67	12.74	0	0	0	12.74	0	0	0	0	0	0	0	0	0	0	13.42	12.33	0	0	0
2019	3	15	26,810.98	10.63	0	0	0	10.63	0	0	0	0	0	0	0	0	0	1	12.74	13.42	0	0	0
2019	3	16	24,093.10	6.8	0	0	0	6.8	0	0	0	0	0	0	0	0	1	0	10.63	12.74	0	0	0
2019	3	17	27,109.51	13.6	0.6	0	0	13.6	0	0	0	0	0	0	0	1	0	0	6.8	10.63	0	0	0
2019	3	18	29,622.03	14.94	1.94	0	0	14.94	0	0	0	0	0	0	0	0	0	1	13.6	6.8	0	0	0
2019	3	19	29,645.34	15.51	2.51	0	0	15.51	0	0	0	0	0	0	0	0	0	0	14.94	13.6	0	0	0
2019	3	20	28,914.72	14.29	1.29	0	0	14.29	0	0	0	0	0	0	0	0	0	0	15.51	14.94	0	0	0
2019	3	21	27,148.63	12.64	0	0	0	12.64	0	0	0	0	0	0	0	0	0	0	14.29	15.51	0	0	0
2019	3	22	26,851.33	10.19	0	0	0	10.19	0	0	0	0	0	0	0	0	0	1	12.64	14.29	0	0	0
2019	3	23	25,676.16	10.02	0	0	0	10.02	0	0	0	0	0	0	0	0	1	0	10.19	12.64	0	0	0

2019	3	24	24,649.65	8.19	0	0	0	8.19	0	0	0	0	0	0	0	0	0	0	10.02	10.19	0	0	0
2019	3	25	26,149.46	10.73	0	0	0	10.73	0	0	0	0	0	0	0	0	0	1	8.19	10.02	0	0	0
2019	3	26	27,791.65	13.76	0.76	0	0	13.76	0	0	0	0	0	0	0	0	0	0	10.73	8.19	0	0	0
2019	3	27	28,500.83	15.2	2.2	0	0	15.2	0	0	0	0	0	0	0	0	0	0	13.76	10.73	0	0	0
2019	3	28	27,666.38	13.2	0.2	0	0	13.2	0	0	0	0	0	0	0	0	0	0	15.2	13.76	0	0	0
2019	3	29	25,469.32	8.36	0	0	0	8.36	0	0	0	0	0	0	0	0	0	1	13.2	15.2	0	0	0
2019	3	30	24,162.89	8.46	0	0	0	8.46	0	0	0	0	0	0	0	0	1	0	8.36	13.2	0	0	0
2019	3	31	22,333.57	8.73	0	0	0	8.73	0	0	0	0	0	0	0	1	0	0	8.46	8.36	0	0	0
2019	4	1	24,744.57	9.2	0	0	0	9.2	0	0	0	0	0	0	0	0	0	1	8.73	8.46	0	0	0
2019	4	2	26,082.60	11.18	0	0	0	11.18	0	0	0	0	0	0	0	0	0	0	9.2	8.73	0	0	0
2019	4	3	27,893.36	9.87	0	0	0	9.87	0	0	0	0	0	0	0	0	0	0	11.18	9.2	0	0	0
2019	4	4	27,182.48	10.13	0	0	0	10.13	0	0	0	0	0	0	0	0	0	0	9.87	11.18	0	0	0
2019	4	5	26,968.12	11.04	0	0	0	11.04	0	0	0	0	0	0	0	0	0	1	10.13	9.87	0	0	0
2019	4	6	26,391.70	10.56	0	0	0	10.56	0	0	0	0	0	0	0	0	1	0	11.04	10.13	0	0	0
2019	4	7	23,551.20	7.21	0	0	0	7.21	0	0	0	0	0	0	0	1	0	0	10.56	11.04	0	0	0
2019	4	8	27,873.59	14.99	1.99	0	0	14.99	0	0	0	0	0	0	0	0	0	1	7.21	10.56	0	0	0
2019	4	9	28,454.43	14.84	1.84	0	0	14.84	0	0	0	0	0	0	0	0	0	0	14.99	7.21	0	0	0
2019	4	10	27,855.95	13.39	0.39	0	0	13.39	0	0	0	0	0	0	0	0	0	0	14.84	14.99	0	0	0
2019	4	11	25,841.67	9.88	0	0	0	9.88	0	0	0	0	0	0	0	0	0	0	13.39	14.84	0	0	0
2019	4	12	23,727.68	6.35	0	0	0	6.35	0	0	0	0	0	0	0	0	0	1	9.88	13.39	0	0	0
2019	4	13	22,787.77	5.78	0	0	0	5.78	0	0	0	0	0	0	0	0	1	0	6.35	9.88	0	0	0
2019	4	14	20,503.44	1.97	0	0	0	1.97	0	0	0	0	0	0	0	1	0	0	5.78	6.35	0	0	0
2019	4	15	23,202.48	6.78	0	0	0	6.78	0	0	0	0	0	0	0	0	0	1	1.97	5.78	0	0	0
2019	4	16	24,190.02	8.36	0	0	0	8.36	0	0	0	0	0	0	0	0	0	0	6.78	1.97	0	0	0
2019	4	17	26,375.04	10.96	0	0	0	10.96	0	0	0	0	0	0	0	0	0	0	8.36	6.78	0	0	0
2019	4	18	24,530.31	10.61	0	0	0	10.61	0	0	0	0	0	0	0	0	0	0	10.96	8.36	0	0	0
2019	4	19	23,514.29	6.01	0	0	0	6.01	0	0	0	0	0	0	0	0	0	1	10.61	10.96	0	0	0
2019	4	20	21,049.49	2.62	0	0	0	2.62	0	0	0	0	0	0	0	0	1	0	6.01	10.61	0	0	0
2019	4	21	19,562.65	2.8	0	0	0	2.8	0	0	0	0	0	0	0	1	0	0	2.62	6.01	0	0	0
2019	4	22	20,498.66	4.31	0	0	0	4.31	0	0	0	0	0	0	0	0	0	1	2.8	2.62	0	0	0
2019	4	23	22,924.63	7.03	0	0	0	7.03	0	0	0	0	0	0	0	0	0	0	4.31	2.8	0	0	0
2019	4	24	22,976.94	6.65	0	0	0	6.65	0	0	0	0	0	0	0	0	0	0	7.03	4.31	0	0	0
2019	4	25	24,362.86	8.71	0	0	0	8.71	0	0	0	0	0	0	0	0	0	0	6.65	7.03	0	0	0
2019	4	26	23,678.92	9.74	0	0	0	9.74	0	0	0	0	0	0	0	0	0	1	8.71	6.65	0	0	0
2019	4	27	24,488.37	8.52	0	0	0	8.52	0	0	0	0	0	0	0	0	1	0	9.74	8.71	0	0	0
2019	4	28	21,847.28	6.2	0	0	0	6.2	0	0	0	0	0	0	0	1	0	0	8.52	9.74	0	0	0
2019	4	29	22,899.40	6.85	0	0	0	6.85	0	0	0	0	0	0	0	0	0	1	6.2	8.52	0	0	0
2019	4	30	23,111.51	6.78	0	0	0	6.78	0	0	0	0	0	0	0	0	0	0	6.85	6.2	0	0	0
2019	5	1	23,107.35	6.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.78	6.85	0	0	0
2019	5	2	22,332.75	5.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.19	6.78	0	0	0
2019	5	3	21,669.71	6.26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5.11	6.19	0	0	0
2019	5	4	21,643.20	7.83	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6.26	5.11	0	0	0
2019	5	5	20,073.80	5.58	0	0	0	0	0	0	0	0	0	0	0	1	0	0	7.83	6.26	0	0	0
2019	5	6	20,689.90	6.81	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5.58	7.83	0	0	0
2019	5	7	20,756.10	5.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.81	5.58	0	0	0
2019	5	8	20,048.71	2.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.23	6.81	0	0	0
2019	5	9	21,659.72	5.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.67	5.23	0	0	0
2019	5	10	22,519.25	7.65	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5.25	2.67	0	0	0
2019	5	11	20,896.44	3.08	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7.65	5.25	0	0	0
2019	5	12	20,564.64	4.42	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3.08	7.65	0	0	0
2019	5	13	21,878.43	8.4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.42	3.08	0	0	0
2019	5	14	24,192.39	8.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.4	4.42	0	0	0
2019	5	15	24,212.04	8.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.75	8.4	0	0	0
2019	5	16	22,552.14	6.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.03	8.75	0	0	0
2019	5	17	21,563.17	5.56	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6.59	8.03	0	0	0
2019	5	18	21,518.50	4.97	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5.56	6.59	0	0	0

2019	5	19	20,290.96	3.58	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4.97	5.56	0	0	0
2019	5	20	21,732.67	5.15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3.58	4.97	0	0	0
2019	5	21	22,063.16	6.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.15	3.58	0	0	0
2019	5	22	23,242.77	6.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.32	5.15	0	0	0
2019	5	23	21,305.52	2.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.72	6.32	0	0	0
2019	5	24	21,368.03	5.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.53	6.72	0	0	0
2019	5	25	19,508.83	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5.2	2.53	0	0	0
2019	5	26	20,116.31	4.56	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5.2	0	0	0
2019	5	27	21,223.64	5.83	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4.56	0	0	0	0
2019	5	28	20,330.89	3.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.83	4.56	0	0	0
2019	5	29	21,046.70	5.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.19	5.83	0	0	0
2019	5	30	20,631.50	5.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.91	3.19	0	0	0
2019	5	31	21,213.23	6.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5.05	5.91	0	0	0
2019	6	1	19,114.85	3.7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6.1	5.05	0	0	0
2019	6	2	20,147.65	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3.7	6.1	0	0	0
2019	6	3	20,164.89	3.11	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	3.7	0	0	0
2019	6	4	19,332.68	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.11	4	0	0	0
2019	6	5	20,242.40	3.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	3.11	0	0	0
2019	6	6	20,937.61	2.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.82	1.7	0	0	0
2019	6	7	19,145.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.23	3.82	0	0	0
2019	6	8	17,685.82	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2.23	0	0	0
2019	6	9	17,806.86	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2019	6	10	18,539.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2019	6	11	18,738.50	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	12	18,383.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0
2019	6	13	18,449.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0
2019	6	14	18,518.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2019	6	15	17,508.91	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2019	6	16	17,588.30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2019	6	17	18,933.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2019	6	18	18,877.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	19	18,812.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	20	18,625.15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	21	18,891.31	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2019	6	22	18,066.09	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.03	0	0	0	0
2019	6	23	17,493.33	0	0	0	0	0	0	0	0	0	0	0	1.08	1	0	0	0	0	0.03	0	0	0
2019	6	24	18,540.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2019	6	25	18,588.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	26	18,515.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	27	18,697.97	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	28	18,540.10	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.03	0	0	0	0
2019	6	29	17,605.46	0.37	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.13	0.03	0	0	0
2019	6	30	17,807.60	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.37	0.13	0	0	0
2019	7	1	18,155.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.37	0	0	0
2019	7	2	18,875.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	7	3	18,900.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	7	4	19,451.75	0	0	0	0	0	0	0	0	0	3.02	0	0	0	0	0	0	0	0	0	0	0
2019	7	5	20,438.89	0	0	0	0	0	0	0	0	0	5.99	0	0	0	0	0	1	0	0	0	0	0
2019	7	6	19,706.89	0	0	0	0	0	0	0	0	0	3.5	0	0	0	1	0	0	0	0	0	0	0
2019	7	7	18,511.01	0	0	0	0	0	0	0	0	0	2.39	0	0	1	0	0	0	0	0	0	0	0
2019	7	8	19,509.91	0	0	0	0	0	0	0	0	0	1.55	0	0	0	0	1	0	0	0	0	0	0
2019	7	9	19,394.55	0	0	0	0	0	0	0	0	0	3.04	0	0	0	0	0	0	0	0	0	0	0
2019	7	10	19,035.99	0	0	0	0	0	0	0	0	0	0.96	0	0	0	0	0	0	0	0	0	0	0
2019	7	11	19,006.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	7	12	18,123.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2019	7	13	18,258.89	0	0	0	0	0	0	0	0	0	0.27	0	0	0	1	0	0	0	0	0	0	0

2019	7	14	18,302.95	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2019	7	15	19,539.06	0	0	0	0	0	0	0	0	0	2.13	0	0	0	0	1	0	0	0	0	0
2019	7	16	20,380.83	0	0	0	0	0	0	0	0	0	3.59	0	0	0	0	0	0	0	0	0	0
2019	7	17	20,293.03	0	0	0	0	0	0	0	0	0	1.46	0	0	0	0	0	0	0	0	0	0
2019	7	18	20,282.18	0	0	0	0	0	0	0	0	0	2.29	0	0	0	0	0	0	0	0	0	0
2019	7	19	19,642.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2019	7	20	19,935.06	0	0	0	0	0	0	0	0	0	5.87	0	0	0	1	0	0	0	0	0	0
2019	7	21	20,182.77	0	0	0	0	0	0	0	0	0	4.81	0	0	1	0	0	0	0	0	0	0
2019	7	22	21,099.82	0	0	0	0	0	0	0	0	0	3.07	0	0	0	0	1	0	0	0	0	0
2019	7	23	20,607.65	0	0	0	0	0	0	0	0	0	1.18	0	0	0	0	0	0	0	0	0	0
2019	7	24	20,154.54	0	0	0	0	0	0	0	0	0	0.49	0	0	0	0	0	0	0	0	0	0
2019	7	25	19,948.79	0	0	0	0	0	0	0	0	0	1.95	0	0	0	0	0	0	0	0	0	0
2019	7	26	19,860.13	0	0	0	0	0	0	0	0	0	1.39	0	0	0	0	0	1	0	0	0	0
2019	7	27	18,649.73	0	0	0	0	0	0	0	0	0	1.05	0	0	0	1	0	0	0	0	0	0
2019	7	28	18,567.36	0	0	0	0	0	0	0	0	0	0.58	0	0	1	0	0	0	0	0	0	0
2019	7	29	20,398.86	0	0	0	0	0	0	0	0	0	2.17	0	0	0	0	1	0	0	0	0	0
2019	7	30	21,758.01	0	0	0	0	0	0	0	0	0	2.99	0	0	0	0	0	0	0	0	0	0
2019	7	31	22,118.55	0	0	0	0	0	0	0	0	0	3.57	0	0	0	0	0	0	0	0	0	0
2019	8	1	21,951.53	0	0	0	0	0	0	0	0	4.3	0	0	0	0	0	0	0	0	0	0	0
2019	8	2	21,038.49	0	0	0	0	0	0	0	0	4.22	0	0	0	0	0	0	1	0	0	0	0
2019	8	3	19,178.99	0	0	0	0	0	0	0	0	3.6	0	0	0	0	1	0	0	0	0	0	0
2019	8	4	18,699.63	0	0	0	0	0	0	0	0	2.66	0	0	0	1	0	0	0	0	0	0	0
2019	8	5	18,987.08	0	0	0	0	0	0	0	0	2.3	0	0	0	0	0	1	0	0	0	0	0
2019	8	6	19,970.47	0	0	0	0	0	0	0	0	1.32	0	0	0	0	0	0	0	0	0	0	0
2019	8	7	19,955.90	0	0	0	0	0	0	0	0	0.78	0	0	0	0	0	0	0	0	0	0	0
2019	8	8	19,574.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	8	9	19,900.99	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	1	0	0	0	0
2019	8	10	18,517.71	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2019	8	11	18,168.68	0	0	0	0	0	0	0	0	0.52	0	0	0	1	0	0	0	0	0	0	0
2019	8	12	19,595.31	0	0	0	0	0	0	0	0	2.69	0	0	0	0	0	1	0	0	0	0	0
2019	8	13	19,804.24	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0
2019	8	14	19,878.95	0	0	0	0	0	0	0	0	0.75	0	0	0	0	0	0	0	0	0	0	0
2019	8	15	19,905.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	8	16	19,399.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2019	8	17	18,404.96	0	0	0	0	0	0	0	0	0.45	0	0	0	0	1	0	0	0	0	0	0
2019	8	18	18,726.68	0	0	0	0	0	0	0	0	1.29	0	0	0	1	0	0	0	0	0	0	0
2019	8	19	20,392.31	0	0	0	0	0	0	0	0	1.81	0	0	0	0	0	1	0	0	0	0	0
2019	8	20	21,180.33	0	0	0	0	0	0	0	0	5.38	0	0	0	0	0	0	0	0	0	0	0
2019	8	21	20,385.83	0	0	0	0	0	0	0	0	1.9	0	0	0	0	0	0	0	0	0	0	0
2019	8	22	21,069.67	0	0	0	0	0	0	0	0	4.31	0	0	0	0	0	0	0	0	0	0	0
2019	8	23	20,418.10	0	0	0	0	0	0	0	0	3.9	0	0	0	0	0	0	1	0	0	0	0
2019	8	24	17,915.91	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2019	8	25	17,452.91	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2019	8	26	18,936.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2019	8	27	19,459.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	8	28	19,487.23	0	0	0	0	0	0	0	0	2.84	0	0	0	0	0	0	0	0	0	0	0
2019	8	29	20,258.31	0	0	0	0	0	0	0	0	0.96	0	0	0	0	0	0	0	0	0	0	0
2019	8	30	20,598.72	0	0	0	0	0	0	0	0	3.87	0	0	0	0	0	0	1	0	0	0	0
2019	8	31	18,713.30	0	0	0	0	0	0	0	0	2.43	0	0	0	0	1	0	0	0	0	0	0
2019	9	1	17,421.22	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2019	9	2	18,132.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2019	9	3	19,541.19	0	0	0	0	0	0	0	0	0	0	1.86	0	0	0	0	0	0	0	0	0
2019	9	4	19,797.21	0	0	0	0	0	0	0	0	0	0	1.44	0	0	0	0	0	0	0	0	0
2019	9	5	19,515.79	0	0	0	0	0	0	0	0	0	0	1.69	0	0	0	0	0	0	0	0	0
2019	9	6	19,116.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2019	9	7	14,262.09	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

2019	9	8	9,722.18	0.03	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	
2019	9	9	15,275.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.03	0	1	0	0	
2019	9	10	17,641.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0	0	0	
2019	9	11	18,656.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	9	12	18,657.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	9	13	18,808.30	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
2019	9	14	18,060.85	0.47	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.5	0	0	0	0	
2019	9	15	17,764.88	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.47	0.5	0	0	0	
2019	9	16	18,506.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.47	0	0	0	
2019	9	17	18,861.44	1.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	9	18	19,257.41	2.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.02	0	0	0	0	
2019	9	19	19,548.15	2.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.25	1.02	0	0	0	
2019	9	20	18,910.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.71	2.25	0	0	0	
2019	9	21	17,407.10	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2.71	0	0	0	
2019	9	22	17,839.03	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
2019	9	23	18,696.06	0	0	0	0	0	0	0	0	0	0	0.63	0	0	0	1	0	0	0	0	0	0	
2019	9	24	18,889.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	9	25	18,602.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	9	26	18,531.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	9	27	18,156.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
2019	9	28	17,551.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
2019	9	29	17,690.06	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
2019	9	30	19,114.35	3.52	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
2019	10	1	20,025.61	2.11	0	0	0	0	0	2.11	0	0	0	0	0	0	0	0	0	0	3.52	0	0	0	0
2019	10	2	19,976.13	1.06	0	0	0	0	0	1.06	0	0	0	0	0	0	0	0	0	0	2.11	3.52	0	0	0
2019	10	3	20,767.00	5.75	0	0	0	0	0	5.75	0	0	0	0	0	0	0	0	0	0	1.06	2.11	0	0	0
2019	10	4	21,474.89	5.59	0	0	0	0	0	5.59	0	0	0	0	0	0	0	0	1	5.75	1.06	0	0	0	
2019	10	5	20,568.29	5.41	0	0	0	0	0	5.41	0	0	0	0	0	0	1	0	0	5.59	5.75	0	0	0	
2019	10	6	19,945.05	2.95	0	0	0	0	0	2.95	0	0	0	0	0	1	0	0	0	5.41	5.59	0	0	0	
2019	10	7	19,160.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2.95	5.41	0	0	0	
2019	10	8	18,810.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.95	0	0	0	
2019	10	9	19,391.94	1.53	0	0	0	0	0	1.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	10	10	20,060.05	2.54	0	0	0	0	0	2.54	0	0	0	0	0	0	0	0	0	0	1.53	0	0	0	0
2019	10	11	20,269.51	1.95	0	0	0	0	0	1.95	0	0	0	0	0	0	0	0	0	1	2.54	1.53	0	0	0
2019	10	12	20,050.22	0.43	0	0	0	0	0	0.43	0	0	0	0	0	0	1	0	0	1.95	2.54	0	0	0	
2019	10	13	19,302.19	1.46	0	0	0	0	0	1.46	0	0	0	0	0	1	0	0	0	0.43	1.95	0	0	0	
2019	10	14	19,859.06	2.18	0	0	0	0	0	2.18	0	0	0	0	0	0	0	1	0	1.46	0.43	0	0	0	
2019	10	15	19,765.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.18	1.46	0	0	0	
2019	10	16	20,547.55	3.57	0	0	0	0	0	3.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	10	17	20,707.49	0.43	0	0	0	0	0	0.43	0	0	0	0	0	0	0	0	0	3.57	0	0	0	0	
2019	10	18	19,926.79	1.73	0	0	0	0	0	1.73	0	0	0	0	0	0	0	0	1	0.43	3.57	0	0	0	
2019	10	19	20,122.90	3.88	0	0	0	0	0	3.88	0	0	0	0	0	0	1	0	0	1.73	0.43	0	0	0	
2019	10	20	20,118.19	3.79	0	0	0	0	0	3.79	0	0	0	0	0	1	0	0	0	3.88	1.73	0	0	0	
2019	10	21	21,151.47	4.16	0	0	0	0	0	4.16	0	0	0	0	0	0	0	1	0	3.79	3.88	0	0	0	
2019	10	22	20,932.44	3.51	0	0	0	0	0	3.51	0	0	0	0	0	0	0	0	0	4.16	3.79	0	0	0	
2019	10	23	21,299.22	1.33	0	0	0	0	0	1.33	0	0	0	0	0	0	0	0	0	3.51	4.16	0	0	0	
2019	10	24	20,021.65	1.48	0	0	0	0	0	1.48	0	0	0	0	0	0	0	0	0	1.33	3.51	0	0	0	
2019	10	25	20,328.78	2.18	0	0	0	0	0	2.18	0	0	0	0	0	0	0	0	1	1.48	1.33	0	0	0	
2019	10	26	20,859.48	5.41	0	0	0	0	0	5.41	0	0	0	0	0	0	1	0	0	2.18	1.48	0	0	0	
2019	10	27	22,025.09	6.93	0	0	0	0	0	6.93	0	0	0	0	0	1	0	0	0	5.41	2.18	0	0	0	
2019	10	28	22,095.68	6.45	0	0	0	0	0	6.45	0	0	0	0	0	0	0	1	0	6.93	5.41	0	0	0	
2019	10	29	22,424.31	6.9	0	0	0	0	0	6.9	0	0	0	0	0	0	0	0	0	6.45	6.93	0	0	0	
2019	10	30	22,093.31	4.21	0	0	0	0	0	4.21	0	0	0	0	0	0	0	0	0	6.9	6.45	0	0	0	
2019	10	31	20,395.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.21	6.9	0	0	0	
2019	11	1	18,961.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4.21	0	0	0	
2019	11	2	20,438.66	6.73	0	0	0	0	0	0	6.73	0	0	0	0	0	0	1	0	0	0	0	0	0	

2020	4	19	23,546.67	8.38	0	0	0	0	8.38	0	0	0	0	0	0	0	0	0	0	11.61	10.38	0	0	0
2020	4	20	22,271.78	5.91	0	0	0	0	5.91	0	0	0	0	0	0	0	0	1	0	8.38	11.61	0	0	0
2020	4	21	22,344.25	9.43	0	0	0	0	9.43	0	0	0	0	0	0	0	0	0	0	5.91	8.38	0	0	0
2020	4	22	23,295.69	8.99	0	0	0	0	8.99	0	0	0	0	0	0	0	0	0	0	9.43	5.91	0	0	0
2020	4	23	24,813.12	10.15	0	0	0	0	10.15	0	0	0	0	0	0	0	0	0	0	8.99	9.43	0	0	0
2020	4	24	23,418.16	9.75	0	0	0	0	9.75	0	0	0	0	0	0	0	0	0	1	10.15	8.99	0	0	0
2020	4	25	21,220.21	6.12	0	0	0	0	6.12	0	0	0	0	0	0	0	1	0	0	9.75	10.15	0	0	0
2020	4	26	20,634.34	7.04	0	0	0	0	7.04	0	0	0	0	0	0	0	1	0	0	6.12	9.75	0	0	0
2020	4	27	24,156.19	9.34	0	0	0	0	9.34	0	0	0	0	0	0	0	0	0	1	7.04	6.12	0	0	0
2020	4	28	26,976.24	11.74	0	0	0	0	11.74	0	0	0	0	0	0	0	0	0	0	9.34	7.04	0	0	0
2020	4	29	24,137.79	9.81	0	0	0	0	9.81	0	0	0	0	0	0	0	0	0	0	11.74	9.34	0	0	0
2020	4	30	22,589.57	9.8	0	0	0	0	9.8	0	0	0	0	0	0	0	0	0	0	9.81	11.74	0	0	0
2020	5	1	21,387.40	6.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9.8	9.81	0	0	0
2020	5	2	20,614.02	4.08	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6.94	9.8	0	0	0
2020	5	3	19,789.84	3.62	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4.08	6.94	0	0	0
2020	5	4	21,817.80	7.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3.62	4.08	0	0	0
2020	5	5	23,329.38	7.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.1	3.62	0	0	0
2020	5	6	22,202.80	5.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.79	7.1	0	0	0
2020	5	7	23,794.71	8.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.25	7.79	0	0	0
2020	5	8	22,365.58	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.97	5.25	0	0	0
2020	5	9	23,160.24	8.47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6	8.97	0	0	0
2020	5	10	24,287.67	9.33	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	8.47	6	0	0	0
2020	5	11	21,254.18	4.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9.33	8.47	0	0	0
2020	5	12	21,354.71	5.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.55	9.33	0	0	0
2020	5	13	22,668.97	7.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.55	4.55	0	0	0
2020	5	14	22,001.95	4.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.77	5.55	0	0	0
2020	5	15	20,673.74	4.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.9	7.77	0	0	0
2020	5	16	21,177.96	6.23	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4.33	4.9	0	0	0
2020	5	17	19,662.21	2.21	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6.23	4.33	0	0	0
2020	5	18	19,166.20	3.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.21	6.23	0	0	0
2020	5	19	20,145.97	4.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.98	2.21	0	0	0
2020	5	20	20,018.89	4.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.27	3.98	0	0	0
2020	5	21	18,752.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.6	4.27	0	0	0
2020	5	22	18,035.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.6	0	0	0
2020	5	23	18,355.30	4.67	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2020	5	24	19,022.96	5.69	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4.67	0	0	0	0
2020	5	25	18,961.34	5.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5.69	4.67	0	0	0
2020	5	26	18,633.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.35	5.69	0	0	0
2020	5	27	18,566.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.35	0	0	0
2020	5	28	18,743.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	5	29	18,554.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	5	30	18,016.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2020	5	31	17,479.44	2.14	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2020	6	1	18,549.43	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2020	6	2	19,504.49	2.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.53	2.14	0	0	0
2020	6	3	20,738.96	5.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.47	0.53	0	0	0
2020	6	4	19,024.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.38	2.47	0	0	0
2020	6	5	18,385.42	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.38	0	0	0
2020	6	6	18,332.85	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.01	0	0	0	0
2020	6	7	18,858.07	1.53	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1.8	0.01	0	0	0
2020	6	8	19,506.54	0.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.53	1.8	0	0	0
2020	6	9	19,311.59	1.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.96	1.53	0	0	0
2020	6	10	18,948.53	3.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.73	0.96	0	0	0
2020	6	11	19,215.58	3.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.41	1.73	0	0	0
2020	6	12	18,985.74	0.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.08	3.41	0	0	0
2020	6	13	18,191.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.37	3.08	0	0	0

2020	6	14	18,016.26	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.37	0	0	0
2020	6	15	19,020.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2020	6	16	19,052.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	6	17	18,943.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	6	18	19,312.33	0	0	0	0	0	0	0	0	0	0	0	1.79	0	0	0	0	0	0	0	0	0
2020	6	19	20,389.12	0	0	0	0	0	0	0	0	0	0	0	4.54	0	0	0	1	0	0	0	0	0
2020	6	20	19,877.16	0	0	0	0	0	0	0	0	0	0	0	4.08	0	1	0	0	0	0	0	0	0
2020	6	21	18,008.92	1.68	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2020	6	22	19,679.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1.68	0	0	0	0
2020	6	23	20,457.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.68	0	0	0
2020	6	24	20,692.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	6	25	20,744.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	6	26	20,223.51	0	0	0	0	0	0	0	0	0	0	0	0.92	0	0	0	0	0	0	0	0	0
2020	6	27	19,181.68	0	0	0	0	0	0	0	0	0	0	0	0.78	0	0	0	1	0	0	0	0	0
2020	6	28	18,791.86	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2020	6	29	19,461.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2020	6	30	19,872.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	1	19,529.32	0	0	0	0	0	0	0	0	0	0.21	0	0	0	0	0	0	0	0	0	0	0
2020	7	2	20,322.48	0	0	0	0	0	0	0	0	0	0.68	0	0	0	0	0	0	0	0	0	0	0
2020	7	3	19,209.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2020	7	4	17,702.56	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2020	7	5	17,717.33	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2020	7	6	19,026.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2020	7	7	19,031.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	8	19,101.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	9	20,057.73	0	0	0	0	0	0	0	0	0	1.05	0	0	0	0	0	0	0	0	0	0	0
2020	7	10	20,554.83	0	0	0	0	0	0	0	0	0	1.95	0	0	0	0	0	1	0	0	0	0	0
2020	7	11	19,229.79	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2020	7	12	19,869.43	0	0	0	0	0	0	0	0	0	1.22	0	0	1	0	0	0	0	0	0	0	0
2020	7	13	21,344.54	0	0	0	0	0	0	0	0	0	2.2	0	0	0	0	1	0	0	0	0	0	0
2020	7	14	20,154.71	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0
2020	7	15	19,003.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	16	18,918.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	17	18,692.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2020	7	18	18,409.03	0	0	0	0	0	0	0	0	0	1.34	0	0	0	1	0	0	0	0	0	0	0
2020	7	19	19,244.25	0	0	0	0	0	0	0	0	0	0.59	0	0	1	0	0	0	0	0	0	0	0
2020	7	20	20,796.20	0	0	0	0	0	0	0	0	0	1.86	0	0	0	0	1	0	0	0	0	0	0
2020	7	21	22,128.17	0	0	0	0	0	0	0	0	0	5.74	0	0	0	0	0	0	0	0	0	0	0
2020	7	22	21,449.84	0	0	0	0	0	0	0	0	0	3.55	0	0	0	0	0	0	0	0	0	0	0
2020	7	23	21,039.85	0	0	0	0	0	0	0	0	0	1.01	0	0	0	0	0	0	0	0	0	0	0
2020	7	24	21,360.33	0	0	0	0	0	0	0	0	0	4.1	0	0	0	0	0	1	0	0	0	0	0
2020	7	25	20,141.78	0	0	0	0	0	0	0	0	0	3.68	0	0	0	1	0	0	0	0	0	0	0
2020	7	26	19,395.78	0	0	0	0	0	0	0	0	0	2.53	0	0	1	0	0	0	0	0	0	0	0
2020	7	27	21,029.65	0	0	0	0	0	0	0	0	0	1.75	0	0	0	0	1	0	0	0	0	0	0
2020	7	28	22,272.18	0	0	0	0	0	0	0	0	0	3.83	0	0	0	0	0	0	0	0	0	0	0
2020	7	29	22,915.90	0	0	0	0	0	0	0	0	0	4.92	0	0	0	0	0	0	0	0	0	0	0
2020	7	30	22,235.84	0	0	0	0	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0
2020	7	31	21,532.50	0	0	0	0	0	0	0	0	0	2.36	0	0	0	0	0	1	0	0	0	0	0
2020	8	1	19,795.50	0	0	0	0	0	0	0	0	3.31	0	0	0	0	1	0	0	0	0	0	0	0
2020	8	2	19,699.56	0	0	0	0	0	0	0	0	3.41	0	0	0	1	0	0	0	0	0	0	0	0
2020	8	3	20,399.48	0	0	0	0	0	0	0	0	1.21	0	0	0	0	0	1	0	0	0	0	0	0
2020	8	4	21,624.15	0	0	0	0	0	0	0	0	4.78	0	0	0	0	0	0	0	0	0	0	0	0
2020	8	5	21,641.78	0	0	0	0	0	0	0	0	2.82	0	0	0	0	0	0	0	0	0	0	0	0
2020	8	6	21,466.16	0	0	0	0	0	0	0	0	3.02	0	0	0	0	0	0	0	0	0	0	0	0
2020	8	7	20,501.11	0	0	0	0	0	0	0	0	3.01	0	0	0	0	0	0	1	0	0	0	0	0
2020	8	8	19,294.60	0	0	0	0	0	0	0	0	0.55	0	0	0	0	1	0	0	0	0	0	0	0

2020	8	9	19,926.00	0	0	0	0	0	0	0	0	3.17	0	0	0	1	0	0	0	0	0	0	0
2020	8	10	21,664.36	0	0	0	0	0	0	0	0	2.95	0	0	0	0	0	1	0	0	0	0	0
2020	8	11	21,584.93	0	0	0	0	0	0	0	0	1.51	0	0	0	0	0	0	0	0	0	0	0
2020	8	12	21,926.56	0	0	0	0	0	0	0	0	1.51	0	0	0	0	0	0	0	0	0	0	0
2020	8	13	22,437.17	0	0	0	0	0	0	0	0	3.21	0	0	0	0	0	0	0	0	0	0	0
2020	8	14	21,283.86	0	0	0	0	0	0	0	0	2.86	0	0	0	0	0	0	1	0	0	0	0
2020	8	15	19,005.81	0	0	0	0	0	0	0	0	1.33	0	0	0	0	1	0	0	0	0	0	0
2020	8	16	18,808.22	0	0	0	0	0	0	0	0	0.16	0	0	0	1	0	0	0	0	0	0	0
2020	8	17	19,459.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2020	8	18	19,551.22	0	0	0	0	0	0	0	0	1.27	0	0	0	0	0	0	0	0	0	0	0
2020	8	19	20,112.14	0	0	0	0	0	0	0	0	0.99	0	0	0	0	0	0	0	0	0	0	0
2020	8	20	19,497.30	0	0	0	0	0	0	0	0	1.77	0	0	0	0	0	0	0	0	0	0	0
2020	8	21	19,089.92	0	0	0	0	0	0	0	0	0.84	0	0	0	0	0	0	1	0	0	0	0
2020	8	22	18,428.33	0	0	0	0	0	0	0	0	1.34	0	0	0	0	1	0	0	0	0	0	0
2020	8	23	18,317.48	0	0	0	0	0	0	0	0	1.8	0	0	0	1	0	0	0	0	0	0	0
2020	8	24	20,153.19	0	0	0	0	0	0	0	0	3.24	0	0	0	0	0	1	0	0	0	0	0
2020	8	25	20,389.10	0	0	0	0	0	0	0	0	1.25	0	0	0	0	0	0	0	0	0	0	0
2020	8	26	18,967.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	8	27	18,048.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	8	28	18,028.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2020	8	29	17,333.89	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2020	8	30	18,294.26	0	0	0	0	0	0	0	0	1.11	0	0	0	1	0	0	0	0	0	0	0
2020	8	31	18,315.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2020	9	1	18,710.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	9	2	18,505.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	9	3	19,380.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	9	4	20,082.70	0	0	0	0	0	0	0	0	0	0	0.97	0	0	0	0	1	0	0	0	0
2020	9	5	18,236.03	0	0	0	0	0	0	0	0	0	0	0.78	0	0	1	0	0	0	0	0	0
2020	9	6	17,516.63	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2020	9	7	18,184.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2020	9	8	20,012.43	0	0	0	0	0	0	0	0	0	0	1.38	0	0	0	0	0	0	0	0	0
2020	9	9	20,502.93	0	0	0	0	0	0	0	0	0	0	0.48	0	0	0	0	0	0	0	0	0
2020	9	10	20,912.51	0	0	0	0	0	0	0	0	0	0	2.07	0	0	0	0	0	0	0	0	0
2020	9	11	19,005.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2020	9	12	17,632.91	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2020	9	13	17,739.56	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2020	9	14	18,949.05	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	1	0	0	0	0	0
2020	9	15	18,782.12	1.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	9	16	18,987.78	0.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.03	0	0	0
2020	9	17	18,844.20	0	0	0	0	0	0	0	0	0	0	0.18	0	0	0	0	0	0.11	1.03	0	0
2020	9	18	18,683.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.11	0	0
2020	9	19	17,755.81	1.14	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2020	9	20	18,823.91	3.05	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1.14	0	0	0
2020	9	21	19,879.96	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3.05	1.14	0	0
2020	9	22	21,609.92	2.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.3	3.05	0	0
2020	9	23	19,675.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.44	2.3	0	0
2020	9	24	19,039.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.44	0	0
2020	9	25	18,931.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2020	9	26	18,319.59	0.29	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2020	9	27	18,188.02	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.29	0	0	0
2020	9	28	19,548.09	0	0	0	0	0	0	0	0	0	0	0.74	0	0	0	1	0	0	0.29	0	0
2020	9	29	20,053.94	0	0	0	0	0	0	0	0	0	0	0.85	0	0	0	0	0	0	0	0	0
2020	9	30	20,237.64	0	0	0	0	0	0	0	0	0	0	0.09	0	0	0	0	0	0	0	0	0
2020	10	1	19,154.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	10	2	18,914.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2020	10	3	17,889.71	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

2020	10	4	18,363.70	0.26	0	0	0	0	0.26	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2020	10	5	19,807.86	1.3	0	0	0	0	1.3	0	0	0	0	0	0	0	0	1	0	0.26	0	0	0
2020	10	6	19,832.52	0.67	0	0	0	0	0.67	0	0	0	0	0	0	0	0	0	0	1.3	0.26	0	0
2020	10	7	19,398.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.67	1.3	0	0
2020	10	8	19,851.51	0.9	0	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0.67	0	0
2020	10	9	21,381.21	5.55	0	0	0	0	5.55	0	0	0	0	0	0	0	0	0	1	0.9	0	0	0
2020	10	10	19,751.19	0.19	0	0	0	0	0.19	0	0	0	0	0	0	0	1	0	0	5.55	0.9	0	0
2020	10	11	19,156.44	1.8	0	0	0	0	1.8	0	0	0	0	0	0	1	0	0	0	0.19	5.55	0	0
2020	10	12	21,540.78	7.83	0	0	0	0	7.83	0	0	0	0	0	0	0	0	1	0	1.8	0.19	0	0
2020	10	13	21,742.12	3.57	0	0	0	0	3.57	0	0	0	0	0	0	0	0	0	0	7.83	1.8	0	0
2020	10	14	20,450.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.57	7.83	0	0
2020	10	15	19,860.02	1.56	0	0	0	0	1.56	0	0	0	0	0	0	0	0	0	0	0	3.57	0	0
2020	10	16	19,341.13	0.95	0	0	0	0	0.95	0	0	0	0	0	0	0	0	0	1	1.56	0	0	0
2020	10	17	19,257.46	0.45	0	0	0	0	0.45	0	0	0	0	0	0	0	1	0	0	0.95	1.56	0	0
2020	10	18	20,045.16	4.32	0	0	0	0	4.32	0	0	0	0	0	0	1	0	0	0	0.45	0.95	0	0
2020	10	19	21,249.84	1.37	0	0	0	0	1.37	0	0	0	0	0	0	0	0	1	0	4.32	0.45	0	0
2020	10	20	19,570.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.37	4.32	0	0
2020	10	21	20,150.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.37	0	0
2020	10	22	19,204.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	10	23	19,907.26	2.89	0	0	0	0	2.89	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2020	10	24	19,929.01	1.23	0	0	0	0	1.23	0	0	0	0	0	0	0	1	0	0	2.89	0	0	0
2020	10	25	20,954.78	5.8	0	0	0	0	5.8	0	0	0	0	0	0	1	0	0	0	1.23	2.89	0	0
2020	10	26	23,730.73	6.41	0	0	0	0	6.41	0	0	0	0	0	0	0	0	1	0	5.8	1.23	0	0
2020	10	27	22,551.84	3.97	0	0	0	0	3.97	0	0	0	0	0	0	0	0	0	0	6.41	5.8	0	0
2020	10	28	24,590.75	9.8	0	0	0	0	9.8	0	0	0	0	0	0	0	0	0	0	3.97	6.41	0	0
2020	10	29	23,815.08	6.72	0	0	0	0	6.72	0	0	0	0	0	0	0	0	0	0	9.8	3.97	0	0
2020	10	30	25,400.86	10.13	0	0	0	0	10.13	0	0	0	0	0	0	0	0	0	1	6.72	9.8	0	0
2020	10	31	25,048.36	10.31	0	0	0	0	10.31	0	0	0	0	0	0	0	1	0	0	10.13	6.72	0	0
2020	11	1	24,803.94	6.24	0	0	0	0	0	6.24	0	0	0	0	0	1	0	0	0	10.31	10.13	0	0
2020	11	2	22,644.66	3.05	0	0	0	0	0	3.05	0	0	0	0	0	0	0	1	0	6.24	10.31	0	0
2020	11	3	27,149.57	12.98	0	0	0	0	0	12.98	0	0	0	0	0	0	0	0	0	3.05	6.24	0	0
2020	11	4	27,872.11	13.76	0.76	0	0	0	0	13.76	0	0	0	0	0	0	0	0	0	12.98	3.05	0	0
2020	11	5	24,995.79	4.18	0	0	0	0	0	4.18	0	0	0	0	0	0	0	0	0	13.76	12.98	0	0
2020	11	6	20,949.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.18	13.76	0	0
2020	11	7	19,726.97	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4.18	0	0
2020	11	8	22,154.49	6.36	0	0	0	0	0	6.36	0	0	0	0	0	1	0	0	0	0	0	0	0
2020	11	9	21,887.96	2.88	0	0	0	0	0	2.88	0	0	0	0	0	0	0	1	0	6.36	0	0	0
2020	11	10	20,626.03	1.45	0	0	0	0	0	1.45	0	0	0	0	0	0	0	0	0	2.88	6.36	0	0
2020	11	11	19,371.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.45	2.88	0	0
2020	11	12	19,815.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.45	0	0
2020	11	13	22,445.05	6.58	0	0	0	0	0	6.58	0	0	0	0	0	0	0	0	1	0	0	0	0
2020	11	14	23,424.75	8.1	0	0	0	0	0	8.1	0	0	0	0	0	0	1	0	0	6.58	0	0	0
2020	11	15	24,811.81	10.13	0	0	0	0	0	10.13	0	0	0	0	0	1	0	0	0	8.1	6.58	0	0
2020	11	16	24,231.69	4.38	0	0	0	0	0	4.38	0	0	0	0	0	0	0	1	0	10.13	8.1	0	0
2020	11	17	24,761.82	7.36	0	0	0	0	0	7.36	0	0	0	0	0	0	0	0	0	4.38	10.13	0	0
2020	11	18	28,060.97	13.22	0.22	0	0	0	0	13.22	0	0	0	0	0	0	0	0	0	7.36	4.38	0	0
2020	11	19	29,086.05	13.27	0.27	0	0	0	0	13.27	0	0	0	0	0	0	0	0	0	13.22	7.36	0	0
2020	11	20	24,524.12	3.08	0	0	0	0	0	3.08	0	0	0	0	0	0	0	0	1	13.27	13.22	0	0
2020	11	21	22,342.60	3.36	0	0	0	0	0	3.36	0	0	0	0	0	0	1	0	0	3.08	13.27	0	0
2020	11	22	26,597.76	12.31	0	0	0	0	0	12.31	0	0	0	0	0	1	0	0	0	3.36	3.08	0	0
2020	11	23	26,008.46	4.34	0	0	0	0	0	4.34	0	0	0	0	0	0	0	1	0	12.31	3.36	0	0
2020	11	24	26,799.82	9.89	0	0	0	0	0	9.89	0	0	0	0	0	0	0	0	0	4.34	12.31	0	0
2020	11	25	30,265.13	13.67	0.67	0	0	0	0	13.67	0	0	0	0	0	0	0	0	0	9.89	4.34	0	0
2020	11	26	25,360.69	4.11	0	0	0	0	0	4.11	0	0	0	0	0	0	0	0	0	13.67	9.89	0	0
2020	11	27	22,135.36	1.29	0	0	0	0	0	1.29	0	0	0	0	0	0	0	0	1	4.11	13.67	0	0
2020	11	28	22,686.58	4.8	0	0	0	0	0	4.8	0	0	0	0	0	0	1	0	0	1.29	4.11	0	0

2020	11	29	24,346.49	8.27	0	0	0	0	0	8.27	0	0	0	0	0	1	0	0	0	4.8	1.29	0	0	0
2020	11	30	25,606.65	7.28	0	0	0	0	0	7.28	0	0	0	0	0	0	0	1	0	8.27	4.8	0	0	0
2020	12	1	22,913.36	0.63	0	0	0	0	0	0	0.63	0	0	0	0	0	0	0	0	7.28	8.27	0	0	0
2020	12	2	22,288.00	2.69	0	0	0	0	0	0	2.69	0	0	0	0	0	0	0	0	0.63	7.28	0	0	0
2020	12	3	24,154.97	7.49	0	0	0	0	0	0	7.49	0	0	0	0	0	0	0	0	2.69	0.63	0	0	0
2020	12	4	24,635.53	4.89	0	0	0	0	0	0	4.89	0	0	0	0	0	0	0	1	7.49	2.69	0	0	0
2020	12	5	22,698.88	2.55	0	0	0	0	0	0	2.55	0	0	0	0	0	1	0	0	4.89	7.49	0	0	0
2020	12	6	23,771.96	5.88	0	0	0	0	0	0	5.88	0	0	0	0	1	0	0	0	2.55	4.89	0	0	0
2020	12	7	26,897.89	10.67	0	0	0	0	0	0	10.67	0	0	0	0	0	0	1	0	5.88	2.55	0	0	0
2020	12	8	28,089.73	11.81	0	0	0	0	0	0	11.81	0	0	0	0	0	0	0	0	10.67	5.88	0	0	0
2020	12	9	28,390.60	11.86	0	0	0	0	0	0	11.86	0	0	0	0	0	0	0	0	11.81	10.67	0	0	0
2020	12	10	28,402.12	11.92	0	0	0	0	0	0	11.92	0	0	0	0	0	0	0	0	11.86	11.81	0	0	0
2020	12	11	27,902.23	11.42	0	0	0	0	0	0	11.42	0	0	0	0	0	0	0	1	11.92	11.86	0	0	0
2020	12	12	26,032.78	8.61	0	0	0	0	0	0	8.61	0	0	0	0	0	1	0	0	11.42	11.92	0	0	0
2020	12	13	25,371.97	5.38	0	0	0	0	0	0	5.38	0	0	0	0	1	0	0	0	8.61	11.42	0	0	0
2020	12	14	25,847.52	7.82	0	0	0	0	0	0	7.82	0	0	0	0	0	0	1	0	5.38	8.61	0	0	0
2020	12	15	30,294.39	14.2	1.2	0	0	0	0	0	14.2	0	0	0	0	0	0	0	0	7.82	5.38	0	0	0
2020	12	16	35,040.77	19.82	6.82	0	0	0	0	0	19.82	0	0	0	0	0	0	0	0	14.2	7.82	0	0	0
2020	12	17	35,346.29	18.69	5.69	0	0	0	0	0	18.69	0	0	0	0	0	0	0	0	19.82	14.2	0	0	0
2020	12	18	31,508.19	13.12	0.12	0	0	0	0	0	13.12	0	0	0	0	0	0	0	1	18.69	19.82	0	0	0
2020	12	19	30,086.50	13.06	0.06	0	0	0	0	0	13.06	0	0	0	0	0	1	0	0	13.12	18.69	0	0	0
2020	12	20	29,298.54	12.75	0	0	0	0	0	0	12.75	0	0	0	0	1	0	0	0	13.06	13.12	0	0	0
2020	12	21	27,232.37	5.88	0	0	0	0	0	0	5.88	0	0	0	0	0	0	1	0	12.75	13.06	0	0	0
2020	12	22	27,239.62	9.43	0	0	0	0	0	0	9.43	0	0	0	0	0	0	0	0	5.88	12.75	0	0	0
2020	12	23	30,548.10	14.07	1.07	0	0	0	0	0	14.07	0	0	0	0	0	0	0	0	9.43	5.88	0	0	0
2020	12	24	29,560.40	11.4	0	0	0	0	0	0	11.4	0	0	0	0	0	0	0	0	14.07	9.43	0	0	0
2020	12	25	23,387.45	2.9	0	0	0	0	0	0	2.9	0	0	0	0	0	0	0	1	11.4	14.07	0	0	0
2020	12	26	22,781.87	5.28	0	0	0	0	0	0	5.28	0	0	0	0	0	1	0	0	2.9	11.4	0	0	0
2020	12	27	26,511.12	11.54	0	0	0	0	0	0	11.54	0	0	0	0	1	0	0	0	5.28	2.9	0	0	0
2020	12	28	29,313.16	11.7	0	0	0	0	0	0	11.7	0	0	0	0	0	0	1	0	11.54	5.28	0	0	0
2020	12	29	26,851.07	8.9	0	0	0	0	0	0	8.9	0	0	0	0	0	0	0	0	11.7	11.54	0	0	0
2020	12	30	31,862.89	16.54	3.54	0	0	0	0	0	16.54	0	0	0	0	0	0	0	0	8.9	11.7	0	0	0
2020	12	31	28,362.06	7.83	0	0	0	0	0	0	7.83	0	0	0	0	0	0	0	0	16.54	8.9	0	0	0
2021	1	1		14.8	3	14.8	0	0	0	0	0	0	0	0	0	0	0	0	1	7.83	16.54	0	0	1
2021	1	2		17.16	4.98	17.16	0	0	0	0	0	0	0	0	0	0	1	0	0	14.8	7.83	0	0	1
2021	1	3		17.24	5.07	17.24	0	0	0	0	0	0	0	0	0	1	0	0	0	17.16	14.8	0	0	1
2021	1	4		14.87	3	14.87	0	0	0	0	0	0	0	0	0	0	0	1	0	17.24	17.16	0	0	1
2021	1	5		13.54	1.59	13.54	0	0	0	0	0	0	0	0	0	0	0	0	0	14.87	17.24	0	0	1
2021	1	6		17.03	4.53	17.03	0	0	0	0	0	0	0	0	0	0	0	0	0	13.54	14.87	0	0	1
2021	1	7		17.8	5.04	17.8	0	0	0	0	0	0	0	0	0	0	0	0	0	17.03	13.54	0	0	1
2021	1	8		17.34	4.68	17.34	0	0	0	0	0	0	0	0	0	0	0	0	1	17.8	17.03	0	0	1
2021	1	9		15.89	3.47	15.89	0	0	0	0	0	0	0	0	0	0	1	0	0	17.34	17.8	0	0	1
2021	1	10		14.42	2.26	14.42	0	0	0	0	0	0	0	0	0	1	0	0	0	15.89	17.34	0	0	1
2021	1	11		12.19	1.66	12.19	0	0	0	0	0	0	0	0	0	0	0	1	0	14.42	15.89	0	0	1
2021	1	12		12.36	2.07	12.36	0	0	0	0	0	0	0	0	0	0	0	0	0	12.19	14.42	0	0	1
2021	1	13		12.28	1.99	12.28	0	0	0	0	0	0	0	0	0	0	0	0	0	12.36	12.19	0	0	1
2021	1	14		15.66	4.12	15.66	0	0	0	0	0	0	0	0	0	0	0	0	0	12.28	12.36	0	0	1
2021	1	15		16.77	4.52	16.77	0	0	0	0	0	0	0	0	0	0	0	0	1	15.66	12.28	0	0	1
2021	1	16		16.25	3.71	16.25	0	0	0	0	0	0	0	0	0	0	1	0	0	16.77	15.66	0	0	1
2021	1	17		16.53	4.09	16.53	0	0	0	0	0	0	0	0	0	1	0	0	0	16.25	16.77	0	0	1
2021	1	18		17.33	4.96	17.33	0	0	0	0	0	0	0	0	0	0	0	1	0	16.53	16.25	0	0	1
2021	1	19		15.55	3.62	15.55	0	0	0	0	0	0	0	0	0	0	0	0	0	17.33	16.53	0	0	1
2021	1	20		13.98	1.77	13.98	0	0	0	0	0	0	0	0	0	0	0	0	0	15.55	17.33	0	0	1
2021	1	21		17.13	4.25	17.13	0	0	0	0	0	0	0	0	0	0	0	0	0	13.98	15.55	0	0	1
2021	1	22		20.23	7.23	20.23	0	0	0	0	0	0	0	0	0	0	0	0	1	17.13	13.98	0	0	1
2021	1	23		18.74	5.74	18.74	0	0	0	0	0	0	0	0	0	0	1	0	0	20.23	17.13	0	0	1

2021	1	24	15.44	4.49	15.44	0	0	0	0	0	0	0	0	0	0	1	0	0	0	18.74	20.23	0	0	1
2021	1	25	15.36	4.01	15.36	0	0	0	0	0	0	0	0	0	0	0	0	1	0	15.44	18.74	0	0	1
2021	1	26	15.65	3.43	15.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.36	15.44	0	0	1
2021	1	27	13.96	2.15	13.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.65	15.36	0	0	1
2021	1	28	13.97	1.82	13.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.96	15.65	0	0	1
2021	1	29	16.2	3.67	16.2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	13.97	13.96	0	0	1
2021	1	30	15.95	3.2	15.95	0	0	0	0	0	0	0	0	0	0	0	1	0	0	16.2	13.97	0	0	1
2021	1	31	14.95	3.06	14.95	0	0	0	0	0	0	0	0	0	0	1	0	0	0	15.95	16.2	0	0	1
2021	2	1	15.55	3.17	0	15.55	0	0	0	0	0	0	0	0	0	0	0	1	0	14.95	15.95	0	0	1
2021	2	2	16.31	3.96	0	16.31	0	0	0	0	0	0	0	0	0	0	0	0	0	15.55	14.95	0	0	1
2021	2	3	17.87	4.96	0	17.87	0	0	0	0	0	0	0	0	0	0	0	0	0	16.31	15.55	0	0	1
2021	2	4	15.4	3.4	0	15.4	0	0	0	0	0	0	0	0	0	0	0	0	0	17.87	16.31	0	0	1
2021	2	5	14.67	3.02	0	14.67	0	0	0	0	0	0	0	0	0	0	0	0	1	15.4	17.87	0	0	1
2021	2	6	17.19	4.34	0	17.19	0	0	0	0	0	0	0	0	0	0	1	0	0	14.67	15.4	0	0	1
2021	2	7	16.52	4.02	0	16.52	0	0	0	0	0	0	0	0	0	1	0	0	0	17.19	14.67	0	0	1
2021	2	8	16.92	4.36	0	16.92	0	0	0	0	0	0	0	0	0	0	0	1	0	16.52	17.19	0	0	1
2021	2	9	18.23	5.23	0	18.23	0	0	0	0	0	0	0	0	0	0	0	0	0	16.92	16.52	0	0	1
2021	2	10	17.18	4.44	0	17.18	0	0	0	0	0	0	0	0	0	0	0	0	0	18.23	16.92	0	0	1
2021	2	11	17.37	5.23	0	17.37	0	0	0	0	0	0	0	0	0	0	0	0	0	17.18	18.23	0	0	1
2021	2	12	17.05	4.86	0	17.05	0	0	0	0	0	0	0	0	0	0	0	0	1	17.37	17.18	0	0	1
2021	2	13	17.56	4.86	0	17.56	0	0	0	0	0	0	0	0	0	0	1	0	0	17.05	17.37	0	0	1
2021	2	14	16.87	4.47	0	16.87	0	0	0	0	0	0	0	0	0	1	0	0	0	17.56	17.05	0	0	1
2021	2	15	16.26	3.8	0	16.26	0	0	0	0	0	0	0	0	0	0	0	1	0	16.87	17.56	0	0	1
2021	2	16	14.08	2.36	0	14.08	0	0	0	0	0	0	0	0	0	0	0	0	0	16.26	16.87	0	0	1
2021	2	17	14.39	2.62	0	14.39	0	0	0	0	0	0	0	0	0	0	0	0	0	14.08	16.26	0	0	1
2021	2	18	15.62	2.83	0	15.62	0	0	0	0	0	0	0	0	0	0	0	0	0	14.39	14.08	0	0	1
2021	2	19	13.61	1.55	0	13.61	0	0	0	0	0	0	0	0	0	0	0	0	1	15.62	14.39	0	0	1
2021	2	20	14.91	2.73	0	14.91	0	0	0	0	0	0	0	0	0	0	1	0	0	13.61	15.62	0	0	1
2021	2	21	15.08	3.16	0	15.08	0	0	0	0	0	0	0	0	0	1	0	0	0	14.91	13.61	0	0	1
2021	2	22	13.16	1.28	0	13.16	0	0	0	0	0	0	0	0	0	0	0	1	0	15.08	14.91	0	0	1
2021	2	23	14.84	2.81	0	14.84	0	0	0	0	0	0	0	0	0	0	0	0	0	13.16	15.08	0	0	1
2021	2	24	14.16	2.67	0	14.16	0	0	0	0	0	0	0	0	0	0	0	0	0	14.84	13.16	0	0	1
2021	2	25	12.06	1.19	0	12.06	0	0	0	0	0	0	0	0	0	0	0	0	0	14.16	14.84	0	0	1
2021	2	26	14.43	2.83	0	14.43	0	0	0	0	0	0	0	0	0	0	0	0	1	12.06	14.16	0	0	1
2021	2	27	17.07	4.33	0	17.07	0	0	0	0	0	0	0	0	0	0	1	0	0	14.43	12.06	0	0	1
2021	2	28	15.09	2.86	0	15.09	0	0	0	0	0	0	0	0	0	1	0	0	0	17.07	14.43	0	0	1
2021	3	1	14.55	2.41	0	0	14.55	0	0	0	0	0	0	0	0	0	0	1	0	15.09	17.07	0	0	1
2021	3	2	12.91	1.09	0	0	12.91	0	0	0	0	0	0	0	0	0	0	0	0	14.55	15.09	0	0	1
2021	3	3	15.33	3.43	0	0	15.33	0	0	0	0	0	0	0	0	0	0	0	0	12.91	14.55	0	0	1
2021	3	4	15.66	3.91	0	0	15.66	0	0	0	0	0	0	0	0	0	0	0	0	15.33	12.91	0	0	1
2021	3	5	15.01	2.72	0	0	15.01	0	0	0	0	0	0	0	0	0	0	0	1	15.66	15.33	0	0	1
2021	3	6	15.99	3.76	0	0	15.99	0	0	0	0	0	0	0	0	0	1	0	0	15.01	15.66	0	0	1
2021	3	7	15.18	2.93	0	0	15.18	0	0	0	0	0	0	0	0	1	0	0	0	15.99	15.01	0	0	1
2021	3	8	12.2	1.05	0	0	12.2	0	0	0	0	0	0	0	0	0	0	1	0	15.18	15.99	0	0	1
2021	3	9	12.75	0.86	0	0	12.75	0	0	0	0	0	0	0	0	0	0	0	0	12.2	15.18	0	0	1
2021	3	10	13.95	1.58	0	0	13.95	0	0	0	0	0	0	0	0	0	0	0	0	12.75	12.2	0	0	1
2021	3	11	12.97	1.49	0	0	12.97	0	0	0	0	0	0	0	0	0	0	0	0	13.95	12.75	0	0	1
2021	3	12	12.9	1.63	0	0	12.9	0	0	0	0	0	0	0	0	0	0	0	1	12.97	13.95	0	0	1
2021	3	13	12.36	1.4	0	0	12.36	0	0	0	0	0	0	0	0	0	1	0	0	12.9	12.97	0	0	1
2021	3	14	13.41	1.73	0	0	13.41	0	0	0	0	0	0	0	0	1	0	0	0	12.36	12.9	0	0	1
2021	3	15	12.73	0.64	0	0	12.73	0	0	0	0	0	0	0	0	0	0	1	0	13.41	12.36	0	0	1
2021	3	16	12.77	1.09	0	0	12.77	0	0	0	0	0	0	0	0	0	0	0	0	12.73	13.41	0	0	1
2021	3	17	14.27	2.32	0	0	14.27	0	0	0	0	0	0	0	0	0	0	0	0	12.77	12.73	0	0	1
2021	3	18	14.15	2.51	0	0	14.15	0	0	0	0	0	0	0	0	0	0	0	0	14.27	12.77	0	0	1
2021	3	19	14.69	2.62	0	0	14.69	0	0	0	0	0	0	0	0	0	0	0	1	14.15	14.27	0	0	1
2021	3	20	12.59	1.18	0	0	12.59	0	0	0	0	0	0	0	0	0	1	0	0	14.69	14.15	0	0	1

2021	3	21	10.84	0.29	0	0	10.84	0	0	0	0	0	0	0	0	1	0	0	0	12.59	14.69	0	0	1
2021	3	22	11.65	0.84	0	0	11.65	0	0	0	0	0	0	0	0	0	0	1	0	10.84	12.59	0	0	1
2021	3	23	13.33	1.97	0	0	13.33	0	0	0	0	0	0	0	0	0	0	0	0	11.65	10.84	0	0	1
2021	3	24	14.1	2	0	0	14.1	0	0	0	0	0	0	0	0	0	0	0	0	13.33	11.65	0	0	1
2021	3	25	12.65	0.77	0	0	12.65	0	0	0	0	0	0	0	0	0	0	0	0	14.1	13.33	0	0	1
2021	3	26	12.98	0.74	0	0	12.98	0	0	0	0	0	0	0	0	0	0	0	1	12.65	14.1	0	0	1
2021	3	27	13.2	1.21	0	0	13.2	0	0	0	0	0	0	0	0	0	1	0	0	12.98	12.65	0	0	1
2021	3	28	11.52	0.27	0	0	11.52	0	0	0	0	0	0	0	0	1	0	0	0	13.2	12.98	0	0	1
2021	3	29	10.49	0.36	0	0	10.49	0	0	0	0	0	0	0	0	0	0	1	0	11.52	13.2	0	0	1
2021	3	30	10.93	0.31	0	0	10.93	0	0	0	0	0	0	0	0	0	0	0	0	10.49	11.52	0	0	1
2021	3	31	9.95	0.03	0	0	9.95	0	0	0	0	0	0	0	0	0	0	0	0	10.93	10.49	0	0	1
2021	4	1	10.1	0.1	0	0	0	10.1	0	0	0	0	0	0	0	0	0	0	0	9.95	10.93	0	0	1
2021	4	2	10.34	0.06	0	0	0	10.34	0	0	0	0	0	0	0	0	0	0	1	10.1	9.95	0	0	1
2021	4	3	10.48	0.03	0	0	0	10.48	0	0	0	0	0	0	0	0	1	0	0	10.34	10.1	0	0	1
2021	4	4	10.63	0.36	0	0	0	10.63	0	0	0	0	0	0	0	1	0	0	0	10.48	10.34	0	0	1
2021	4	5	11.22	0.59	0	0	0	11.22	0	0	0	0	0	0	0	0	0	1	0	10.63	10.48	0	0	1
2021	4	6	11.06	0.64	0	0	0	11.06	0	0	0	0	0	0	0	0	0	0	0	11.22	10.63	0	0	1
2021	4	7	9.74	0.03	0	0	0	9.74	0	0	0	0	0	0	0	0	0	0	0	11.06	11.22	0	0	1
2021	4	8	10.34	0.2	0	0	0	10.34	0	0	0	0	0	0	0	0	0	0	0	9.74	11.06	0	0	1
2021	4	9	10.62	0.47	0	0	0	10.62	0	0	0	0	0	0	0	0	0	0	1	10.34	9.74	0	0	1
2021	4	10	10.29	0.04	0	0	0	10.29	0	0	0	0	0	0	0	0	1	0	0	10.62	10.34	0	0	1
2021	4	11	8.09	0	0	0	0	8.09	0	0	0	0	0	0	0	1	0	0	0	10.29	10.62	0	0	1
2021	4	12	7.25	0	0	0	0	7.25	0	0	0	0	0	0	0	0	0	1	0	8.09	10.29	0	0	1
2021	4	13	7.67	0	0	0	0	7.67	0	0	0	0	0	0	0	0	0	0	0	7.25	8.09	0	0	1
2021	4	14	6.15	0	0	0	0	6.15	0	0	0	0	0	0	0	0	0	0	0	7.67	7.25	0	0	1
2021	4	15	7.84	0.09	0	0	0	7.84	0	0	0	0	0	0	0	0	0	0	0	6.15	7.67	0	0	1
2021	4	16	9.25	0.05	0	0	0	9.25	0	0	0	0	0	0	0	0	0	0	1	7.84	6.15	0	0	1
2021	4	17	8.4	0	0	0	0	8.4	0	0	0	0	0	0	0	0	1	0	0	9.25	7.84	0	0	1
2021	4	18	8.52	0	0	0	0	8.52	0	0	0	0	0	0	0	1	0	0	0	8.4	9.25	0	0	1
2021	4	19	8.96	0.12	0	0	0	8.96	0	0	0	0	0	0	0	0	0	1	0	8.52	8.4	0	0	1
2021	4	20	7.8	0	0	0	0	7.8	0	0	0	0	0	0	0	0	0	0	0	8.96	8.52	0	0	1
2021	4	21	7.09	0	0	0	0	7.09	0	0	0	0	0	0	0	0	0	0	0	7.8	8.96	0	0	1
2021	4	22	6.61	0	0	0	0	6.61	0	0	0	0	0	0	0	0	0	0	0	7.09	7.8	0	0	1
2021	4	23	7.94	0	0	0	0	7.94	0	0	0	0	0	0	0	0	0	0	1	6.61	7.09	0	0	1
2021	4	24	6.65	0	0	0	0	6.65	0	0	0	0	0	0	0	0	1	0	0	7.94	6.61	0	0	1
2021	4	25	7.04	0	0	0	0	7.04	0	0	0	0	0	0	0	1	0	0	0	6.65	7.94	0	0	1
2021	4	26	6.94	0	0	0	0	6.94	0	0	0	0	0	0	0	0	0	1	0	7.04	6.65	0	0	1
2021	4	27	6.87	0	0	0	0	6.87	0	0	0	0	0	0	0	0	0	0	0	6.94	7.04	0	0	1
2021	4	28	6.92	0	0	0	0	6.92	0	0	0	0	0	0	0	0	0	0	0	6.87	6.94	0	0	1
2021	4	29	6.14	0	0	0	0	6.14	0	0	0	0	0	0	0	0	0	0	0	6.92	6.87	0	0	1
2021	4	30	7.36	0	0	0	0	7.36	0	0	0	0	0	0	0	0	0	0	1	6.14	6.92	0	0	1
2021	5	1	6.86	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	7.36	6.14	0	0	1
2021	5	2	5.4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	6.86	7.36	0	0	1
2021	5	3	4.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5.4	6.86	0	0	1
2021	5	4	5.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.24	5.4	0	0	1
2021	5	5	4.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.8	4.24	0	0	1
2021	5	6	3.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.82	5.8	0	0	1
2021	5	7	4.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3.94	4.82	0	0	1
2021	5	8	4.79	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4.46	3.94	0	0	1
2021	5	9	5.41	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4.79	4.46	0	0	1
2021	5	10	4.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5.41	4.79	0	0	1
2021	5	11	3.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.71	5.41	0	0	1
2021	5	12	4.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.08	4.71	0	0	1
2021	5	13	4.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.6	3.08	0	0	1
2021	5	14	4.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.51	4.6	0	0	1
2021	5	15	3.76	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4.45	4.51	0	0	1

2021	5	16	4.12	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3.76	4.45	0	0	1
2021	5	17	2.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4.12	3.76	0	0	1
2021	5	18	3.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.57	4.12	0	0	1
2021	5	19	3.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.02	2.57	0	0	1
2021	5	20	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.29	3.02	0	0	1
2021	5	21	2.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3.1	3.29	0	0	1
2021	5	22	3.01	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2.01	3.1	0	0	1
2021	5	23	3.53	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3.01	2.01	0	0	1
2021	5	24	3.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3.53	3.01	0	0	1
2021	5	25	2.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.39	3.53	0	0	1
2021	5	26	2.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.43	3.39	0	0	1
2021	5	27	3.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.7	2.43	0	0	1
2021	5	28	2.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3.08	2.7	0	0	1
2021	5	29	2.63	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2.46	3.08	0	0	1
2021	5	30	1.89	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2.63	2.46	0	0	1
2021	5	31	1.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1.89	2.63	0	0	1
2021	6	1	1.63	0	0	0	0	0	0	0	0	0	0	0	0.24	0	0	0	0	1.88	1.89	0	0	1
2021	6	2	2.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.63	1.88	0	0	1
2021	6	3	2.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.12	1.63	0	0	1
2021	6	4	2.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.53	2.12	0	0	1
2021	6	5	2.27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2.29	2.53	0	0	1
2021	6	6	2.18	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2.27	2.29	0	0	1
2021	6	7	1.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2.18	2.27	0	0	1
2021	6	8	0.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.22	2.18	0	0	1
2021	6	9	0.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.62	1.22	0	0	1
2021	6	10	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.63	0.62	0	0	1
2021	6	11	0.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.7	0.63	0	0	1
2021	6	12	0.81	0	0	0	0	0	0	0	0	0	0	0	0.2	0	1	0	0	0.72	0.7	0	0	1
2021	6	13	0.91	0	0	0	0	0	0	0	0	0	0	0	0.42	1	0	0	0	0.81	0.72	0	0	1
2021	6	14	1.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.91	0.81	0	0	1
2021	6	15	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.32	0.91	0	0	1
2021	6	16	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.79	1.32	0	0	1
2021	6	17	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.49	0.79	0	0	1
2021	6	18	0.41	0	0	0	0	0	0	0	0	0	0	0	0.18	0	0	0	1	0.58	0.49	0	0	1
2021	6	19	0.16	0	0	0	0	0	0	0	0	0	0	0	0.56	0	1	0	0	0.41	0.58	0	0	1
2021	6	20	0	0	0	0	0	0	0	0	0	0	0	0	0.41	1	0	0	0	0.16	0.41	0	0	1
2021	6	21	0.28	0	0	0	0	0	0	0	0	0	0	0	0.21	0	0	1	0	0	0.16	0	0	1
2021	6	22	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0.28	0	0	0	1
2021	6	23	0.11	0	0	0	0	0	0	0	0	0	0	0	0.11	0	0	0	0	0	0.28	0	0	1
2021	6	24	0.15	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0.11	0	0	0	1
2021	6	25	0.31	0	0	0	0	0	0	0	0	0	0	0	0.66	0	0	0	1	0.15	0.11	0	0	1
2021	6	26	0	0	0	0	0	0	0	0	0	0	0	0	0.09	0	1	0	0	0.31	0.15	0	0	1
2021	6	27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.31	0	0	1
2021	6	28	0.1	0	0	0	0	0	0	0	0	0	0	0	0.36	0	0	1	0	0	0	0	0	1
2021	6	29	0.04	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0.1	0	0	0	1
2021	6	30	0	0	0	0	0	0	0	0	0	0	0	0	0.85	0	0	0	0	0.04	0.1	0	0	1
2021	7	1	0	0	0	0	0	0	0	0	0	0	0.72	0	0	0	0	0	0	0	0.04	0	0	1
2021	7	2	0	0	0	0	0	0	0	0	0	0	0.33	0	0	0	0	0	1	0	0	0	0	1
2021	7	3	0	0	0	0	0	0	0	0	0	0	0.37	0	0	0	1	0	0	0	0	0	0	1
2021	7	4	0	0	0	0	0	0	0	0	0	0	2.19	0	0	1	0	0	0	0	0	0	0	1
2021	7	5	0	0	0	0	0	0	0	0	0	0	2.32	0	0	0	0	1	0	0	0	0	0	1
2021	7	6	0	0	0	0	0	0	0	0	0	0	1.97	0	0	0	0	0	0	0	0	0	0	1
2021	7	7	0	0	0	0	0	0	0	0	0	0	1.37	0	0	0	0	0	0	0	0	0	0	1
2021	7	8	0	0	0	0	0	0	0	0	0	0	1.05	0	0	0	0	0	0	0	0	0	0	1
2021	7	9	0	0	0	0	0	0	0	0	0	0	0.79	0	0	0	0	0	1	0	0	0	0	1
2021	7	10	0.01	0	0	0	0	0	0	0	0	0	0.84	0	0	0	1	0	0	0	0	0	0	1

2021	7	11	0	0	0	0	0	0	0	0	0	0	0.47	0	0	1	0	0	0	0.01	0	0	0	1
2021	7	12	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	1	0	0	0.01	0	0	1
2021	7	13	0	0	0	0	0	0	0	0	0	0	1.21	0	0	0	0	0	0	0	0	0	0	1
2021	7	14	0	0	0	0	0	0	0	0	0	0	0.95	0	0	0	0	0	0	0	0	0	0	1
2021	7	15	0	0	0	0	0	0	0	0	0	0	1.17	0	0	0	0	0	0	0	0	0	0	1
2021	7	16	0	0	0	0	0	0	0	0	0	0	1.67	0	0	0	0	0	1	0	0	0	0	1
2021	7	17	0	0	0	0	0	0	0	0	0	0	0.43	0	0	0	1	0	0	0	0	0	0	1
2021	7	18	0	0	0	0	0	0	0	0	0	0	1.59	0	0	1	0	0	0	0	0	0	0	1
2021	7	19	0	0	0	0	0	0	0	0	0	0	1.38	0	0	0	0	1	0	0	0	0	0	1
2021	7	20	0	0	0	0	0	0	0	0	0	0	1.88	0	0	0	0	0	0	0	0	0	0	1
2021	7	21	0	0	0	0	0	0	0	0	0	0	2.26	0	0	0	0	0	0	0	0	0	0	1
2021	7	22	0	0	0	0	0	0	0	0	0	0	1.44	0	0	0	0	0	0	0	0	0	0	1
2021	7	23	0	0	0	0	0	0	0	0	0	0	1.15	0	0	0	0	0	1	0	0	0	0	1
2021	7	24	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	1	0	0	0	0	0	0	1
2021	7	25	0	0	0	0	0	0	0	0	0	0	1.68	0	0	1	0	0	0	0	0	0	0	1
2021	7	26	0	0	0	0	0	0	0	0	0	0	1.31	0	0	0	0	1	0	0	0	0	0	1
2021	7	27	0	0	0	0	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	1
2021	7	28	0	0	0	0	0	0	0	0	0	0	1.16	0	0	0	0	0	0	0	0	0	0	1
2021	7	29	0	0	0	0	0	0	0	0	0	0	1.43	0	0	0	0	0	0	0	0	0	0	1
2021	7	30	0	0	0	0	0	0	0	0	0	0	1.71	0	0	0	0	0	1	0	0	0	0	1
2021	7	31	0	0	0	0	0	0	0	0	0	0	2.68	0	0	0	1	0	0	0	0	0	0	1
2021	8	1	0	0	0	0	0	0	0	0	0	2.47	0	0	0	1	0	0	0	0	0	0	0	1
2021	8	2	0	0	0	0	0	0	0	0	0	1.87	0	0	0	0	0	1	0	0	0	0	0	1
2021	8	3	0	0	0	0	0	0	0	0	0	1.62	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	4	0	0	0	0	0	0	0	0	0	1.96	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	5	0	0	0	0	0	0	0	0	0	1.71	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	6	0	0	0	0	0	0	0	0	0	1.68	0	0	0	0	0	0	1	0	0	0	0	1
2021	8	7	0	0	0	0	0	0	0	0	0	1.76	0	0	0	0	1	0	0	0	0	0	0	1
2021	8	8	0	0	0	0	0	0	0	0	0	1.04	0	0	0	1	0	0	0	0	0	0	0	1
2021	8	9	0	0	0	0	0	0	0	0	0	1.25	0	0	0	0	0	1	0	0	0	0	0	1
2021	8	10	0	0	0	0	0	0	0	0	0	1.58	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	11	0	0	0	0	0	0	0	0	0	1.16	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	12	0	0	0	0	0	0	0	0	0	1.54	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	13	0	0	0	0	0	0	0	0	0	1.18	0	0	0	0	0	0	1	0	0	0	0	1
2021	8	14	0	0	0	0	0	0	0	0	0	1.78	0	0	0	0	1	0	0	0	0	0	0	1
2021	8	15	0	0	0	0	0	0	0	0	0	1.25	0	0	0	1	0	0	0	0	0	0	0	1
2021	8	16	0	0	0	0	0	0	0	0	0	1.34	0	0	0	0	0	1	0	0	0	0	0	1
2021	8	17	0	0	0	0	0	0	0	0	0	0.98	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	18	0	0	0	0	0	0	0	0	0	1.13	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	19	0	0	0	0	0	0	0	0	0	1.58	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	20	0	0	0	0	0	0	0	0	0	2.33	0	0	0	0	0	0	1	0	0	0	0	1
2021	8	21	0	0	0	0	0	0	0	0	0	1.97	0	0	0	0	1	0	0	0	0	0	0	1
2021	8	22	0	0	0	0	0	0	0	0	0	1.96	0	0	0	1	0	0	0	0	0	0	0	1
2021	8	23	0	0	0	0	0	0	0	0	0	1.87	0	0	0	0	0	1	0	0	0	0	0	1
2021	8	24	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	25	0	0	0	0	0	0	0	0	0	1.11	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	26	0	0	0	0	0	0	0	0	0	0.89	0	0	0	0	0	0	0	0	0	0	0	1
2021	8	27	0	0	0	0	0	0	0	0	0	1.44	0	0	0	0	0	0	1	0	0	0	0	1
2021	8	28	0	0	0	0	0	0	0	0	0	1.44	0	0	0	0	1	0	0	0	0	0	0	1
2021	8	29	0	0	0	0	0	0	0	0	0	1.11	0	0	0	1	0	0	0	0	0	0	0	1
2021	8	30	0	0	0	0	0	0	0	0	0	1.36	0	0	0	0	0	1	0	0	0	0	0	1
2021	8	31	0	0	0	0	0	0	0	0	0	0.88	0	0	0	0	0	0	0	0	0	0	0	1
2021	9	1	0	0	0	0	0	0	0	0	0	0	0	0.37	0	0	0	0	0	0	0	0	0	1
2021	9	2	0.11	0	0	0	0	0	0	0	0	0	0	0.15	0	0	0	0	0	0	0	0	0	1
2021	9	3	0	0	0	0	0	0	0	0	0	0	0	1.07	0	0	0	0	1	0.11	0	0	0	1
2021	9	4	0	0	0	0	0	0	0	0	0	0	0	1.08	0	0	1	0	0	0	0.11	0	0	1

2021	9	5	0	0	0	0	0	0	0	0	0	0	0	0.84	0	1	0	0	0	0	0	0	1
2021	9	6	0	0	0	0	0	0	0	0	0	0	0	1.25	0	0	0	1	0	0	0	0	1
2021	9	7	0	0	0	0	0	0	0	0	0	0	0	0.58	0	0	0	0	0	0	0	0	1
2021	9	8	0	0	0	0	0	0	0	0	0	0	0	0.77	0	0	0	0	0	0	0	0	1
2021	9	9	0.01	0	0	0	0	0	0	0	0	0	0	0.53	0	0	0	0	0	0	0	0	1
2021	9	10	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	1	0.01	0	0	1
2021	9	11	0	0	0	0	0	0	0	0	0	0	0	0.44	0	0	1	0	0	0	0.01	0	1
2021	9	12	0	0	0	0	0	0	0	0	0	0	0	0.37	0	1	0	0	0	0	0	0	1
2021	9	13	0.05	0	0	0	0	0	0	0	0	0	0	0.03	0	0	0	1	0	0	0	0	1
2021	9	14	0.05	0	0	0	0	0	0	0	0	0	0	0.41	0	0	0	0	0	0.05	0	0	1
2021	9	15	0.2	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0.05	0.05	0	1
2021	9	16	0.13	0	0	0	0	0	0	0	0	0	0	0.35	0	0	0	0	0	0.2	0.05	0	1
2021	9	17	0.43	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	1	0.13	0.2	0	1
2021	9	18	0.36	0	0	0	0	0	0	0	0	0	0	0.61	0	0	1	0	0	0.43	0.13	0	1
2021	9	19	0.8	0	0	0	0	0	0	0	0	0	0	0.19	0	1	0	0	0	0.36	0.43	0	1
2021	9	20	0.43	0	0	0	0	0	0	0	0	0	0	0.37	0	0	0	1	0	0.8	0.36	0	1
2021	9	21	0.23	0	0	0	0	0	0	0	0	0	0	0.23	0	0	0	0	0	0.43	0.8	0	1
2021	9	22	0.24	0	0	0	0	0	0	0	0	0	0	0.22	0	0	0	0	0	0.23	0.43	0	1
2021	9	23	0.06	0	0	0	0	0	0	0	0	0	0	0.22	0	0	0	0	0	0.24	0.23	0	1
2021	9	24	0.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.06	0.24	0	1
2021	9	25	1.05	0	0	0	0	0	0	0	0	0	0	0.33	0	0	1	0	0	0.87	0.06	0	1
2021	9	26	0.44	0	0	0	0	0	0	0	0	0	0	0.66	0	1	0	0	0	1.05	0.87	0	1
2021	9	27	0.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.44	1.05	0	1
2021	9	28	0.42	0	0	0	0	0	0	0	0	0	0	0.16	0	0	0	0	0	0.17	0.44	0	1
2021	9	29	0.25	0	0	0	0	0	0	0	0	0	0	0.29	0	0	0	0	0	0.42	0.17	0	1
2021	9	30	0.84	0	0	0	0	0	0	0	0	0	0	0.32	0	0	0	0	0	0.25	0.42	0	1
2021	10	1	0.59	0	0	0	0	0	0.59	0	0	0	0	0	0	0	0	0	1	0.84	0.25	0	1
2021	10	2	1.01	0	0	0	0	0	1.01	0	0	0	0	0	0	0	1	0	0	0.59	0.84	0	1
2021	10	3	1.42	0	0	0	0	0	1.42	0	0	0	0	0	0	1	0	0	0	1.01	0.59	0	1
2021	10	4	1.31	0	0	0	0	0	1.31	0	0	0	0	0	0	0	0	1	0	1.42	1.01	0	1
2021	10	5	1.55	0	0	0	0	0	1.55	0	0	0	0	0	0	0	0	0	0	1.31	1.42	0	1
2021	10	6	1.77	0	0	0	0	0	1.77	0	0	0	0	0	0	0	0	0	0	1.55	1.31	0	1
2021	10	7	0.95	0	0	0	0	0	0.95	0	0	0	0	0	0	0	0	0	0	1.77	1.55	0	1
2021	10	8	0.81	0	0	0	0	0	0.81	0	0	0	0	0	0	0	0	0	1	0.95	1.77	0	1
2021	10	9	1.56	0	0	0	0	0	1.56	0	0	0	0	0	0	0	1	0	0	0.81	0.95	0	1
2021	10	10	1.02	0	0	0	0	0	1.02	0	0	0	0	0	0	1	0	0	0	1.56	0.81	0	1
2021	10	11	2.24	0	0	0	0	0	2.24	0	0	0	0	0	0	0	0	1	0	1.02	1.56	0	1
2021	10	12	3.1	0	0	0	0	0	3.1	0	0	0	0	0	0	0	0	0	0	2.24	1.02	0	1
2021	10	13	3.07	0	0	0	0	0	3.07	0	0	0	0	0	0	0	0	0	0	3.1	2.24	0	1
2021	10	14	1.89	0	0	0	0	0	1.89	0	0	0	0	0	0	0	0	0	0	3.07	3.1	0	1
2021	10	15	1.29	0	0	0	0	0	1.29	0	0	0	0	0	0	0	0	0	1	1.89	3.07	0	1
2021	10	16	1.46	0	0	0	0	0	1.46	0	0	0	0	0	0	0	1	0	0	1.29	1.89	0	1
2021	10	17	2.08	0	0	0	0	0	2.08	0	0	0	0	0	0	1	0	0	0	1.46	1.29	0	1
2021	10	18	3.22	0	0	0	0	0	3.22	0	0	0	0	0	0	0	0	1	0	2.08	1.46	0	1
2021	10	19	3.1	0	0	0	0	0	3.1	0	0	0	0	0	0	0	0	0	0	3.22	2.08	0	1
2021	10	20	1.66	0	0	0	0	0	1.66	0	0	0	0	0	0	0	0	0	0	3.1	3.22	0	1
2021	10	21	2.22	0	0	0	0	0	2.22	0	0	0	0	0	0	0	0	0	0	1.66	3.1	0	1
2021	10	22	3.1	0	0	0	0	0	3.1	0	0	0	0	0	0	0	0	0	1	2.22	1.66	0	1
2021	10	23	2.69	0	0	0	0	0	2.69	0	0	0	0	0	0	0	1	0	0	3.1	2.22	0	1
2021	10	24	3.07	0	0	0	0	0	3.07	0	0	0	0	0	0	1	0	0	0	2.69	3.1	0	1
2021	10	25	4.42	0	0	0	0	0	4.42	0	0	0	0	0	0	0	0	1	0	3.07	2.69	0	1
2021	10	26	5.36	0	0	0	0	0	5.36	0	0	0	0	0	0	0	0	0	0	4.42	3.07	0	1
2021	10	27	5.7	0	0	0	0	0	5.7	0	0	0	0	0	0	0	0	0	0	5.36	4.42	0	1
2021	10	28	5.73	0	0	0	0	0	5.73	0	0	0	0	0	0	0	0	0	0	5.7	5.36	0	1
2021	10	29	3.65	0	0	0	0	0	3.65	0	0	0	0	0	0	0	0	0	1	5.73	5.7	0	1
2021	10	30	4.36	0	0	0	0	0	4.36	0	0	0	0	0	0	0	1	0	0	3.65	5.73	0	1

2021	10	31	5.12	0	0	0	0	0	5.12	0	0	0	0	0	0	1	0	0	0	4.36	3.65	0	0	1
2021	11	1	3.86	0	0	0	0	0	0	3.86	0	0	0	0	0	0	0	1	0	5.12	4.36	0	0	1
2021	11	2	3.33	0	0	0	0	0	0	3.33	0	0	0	0	0	0	0	0	0	3.86	5.12	0	0	1
2021	11	3	5.54	0	0	0	0	0	0	5.54	0	0	0	0	0	0	0	0	0	3.33	3.86	0	0	1
2021	11	4	7.39	0.08	0	0	0	0	0	7.39	0	0	0	0	0	0	0	0	0	5.54	3.33	0	0	1
2021	11	5	7.21	0	0	0	0	0	0	7.21	0	0	0	0	0	0	0	0	1	7.39	5.54	0	0	1
2021	11	6	4.46	0	0	0	0	0	0	4.46	0	0	0	0	0	0	1	0	0	7.21	7.39	0	0	1
2021	11	7	3.99	0	0	0	0	0	0	3.99	0	0	0	0	0	1	0	0	0	4.46	7.21	0	0	1
2021	11	8	6.97	0	0	0	0	0	0	6.97	0	0	0	0	0	0	0	1	0	3.99	4.46	0	0	1
2021	11	9	7.09	0.08	0	0	0	0	0	7.09	0	0	0	0	0	0	0	0	0	6.97	3.99	0	0	1
2021	11	10	5.86	0	0	0	0	0	0	5.86	0	0	0	0	0	0	0	0	0	7.09	6.97	0	0	1
2021	11	11	6.13	0.05	0	0	0	0	0	6.13	0	0	0	0	0	0	0	0	0	5.86	7.09	0	0	1
2021	11	12	6.38	0.11	0	0	0	0	0	6.38	0	0	0	0	0	0	0	0	1	6.13	5.86	0	0	1
2021	11	13	7.06	0.14	0	0	0	0	0	7.06	0	0	0	0	0	0	1	0	0	6.38	6.13	0	0	1
2021	11	14	8.56	0.21	0	0	0	0	0	8.56	0	0	0	0	0	1	0	0	0	7.06	6.38	0	0	1
2021	11	15	8.06	0.43	0	0	0	0	0	8.06	0	0	0	0	0	0	0	1	0	8.56	7.06	0	0	1
2021	11	16	8.16	0.11	0	0	0	0	0	8.16	0	0	0	0	0	0	0	0	0	8.06	8.56	0	0	1
2021	11	17	8	0.21	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8.16	8.06	0	0	1
2021	11	18	8.96	0.02	0	0	0	0	0	8.96	0	0	0	0	0	0	0	0	0	8	8.16	0	0	1
2021	11	19	8.59	0.03	0	0	0	0	0	8.59	0	0	0	0	0	0	0	0	1	8.96	8	0	0	1
2021	11	20	7.57	0.06	0	0	0	0	0	7.57	0	0	0	0	0	0	1	0	0	8.59	8.96	0	0	1
2021	11	21	8.53	0	0	0	0	0	0	8.53	0	0	0	0	0	1	0	0	0	7.57	8.59	0	0	1
2021	11	22	9.73	0.97	0	0	0	0	0	9.73	0	0	0	0	0	0	0	1	0	8.53	7.57	0	0	1
2021	11	23	9.34	0.81	0	0	0	0	0	9.34	0	0	0	0	0	0	0	0	0	9.73	8.53	0	0	1
2021	11	24	10.1	0.26	0	0	0	0	0	10.1	0	0	0	0	0	0	0	0	0	9.34	9.73	0	0	1
2021	11	25	9.69	0.61	0	0	0	0	0	9.69	0	0	0	0	0	0	0	0	0	10.1	9.34	0	0	1
2021	11	26	8.29	0	0	0	0	0	0	8.29	0	0	0	0	0	0	0	0	1	9.69	10.1	0	0	1
2021	11	27	8.13	0.12	0	0	0	0	0	8.13	0	0	0	0	0	0	1	0	0	8.29	9.69	0	0	1
2021	11	28	9.21	0.47	0	0	0	0	0	9.21	0	0	0	0	0	1	0	0	0	8.13	8.29	0	0	1
2021	11	29	11.37	0.64	0	0	0	0	0	11.37	0	0	0	0	0	0	0	1	0	9.21	8.13	0	0	1
2021	11	30	12.12	1.56	0	0	0	0	0	12.12	0	0	0	0	0	0	0	0	0	11.37	9.21	0	0	1
2021	12	1	9.55	1.07	0	0	0	0	0	0	9.55	0	0	0	0	0	0	0	0	12.12	11.37	0	0	1
2021	12	2	9.71	0.42	0	0	0	0	0	0	9.71	0	0	0	0	0	0	0	0	9.55	12.12	0	0	1
2021	12	3	7.45	0	0	0	0	0	0	0	7.45	0	0	0	0	0	0	0	1	9.71	9.55	0	0	1
2021	12	4	10.16	0	0	0	0	0	0	0	10.16	0	0	0	0	0	1	0	0	7.45	9.71	0	0	1
2021	12	5	10.66	1.11	0	0	0	0	0	0	10.66	0	0	0	0	1	0	0	0	10.16	7.45	0	0	1
2021	12	6	9.04	0.56	0	0	0	0	0	0	9.04	0	0	0	0	0	0	1	0	10.66	10.16	0	0	1
2021	12	7	10.92	0.57	0	0	0	0	0	0	10.92	0	0	0	0	0	0	0	0	9.04	10.66	0	0	1
2021	12	8	13.13	2.16	0	0	0	0	0	0	13.13	0	0	0	0	0	0	0	0	10.92	9.04	0	0	1
2021	12	9	12.39	1.93	0	0	0	0	0	0	12.39	0	0	0	0	0	0	0	0	13.13	10.92	0	0	1
2021	12	10	10.26	1.13	0	0	0	0	0	0	10.26	0	0	0	0	0	0	0	1	12.39	13.13	0	0	1
2021	12	11	11.94	2.12	0	0	0	0	0	0	11.94	0	0	0	0	0	1	0	0	10.26	12.39	0	0	1
2021	12	12	12.83	2.42	0	0	0	0	0	0	12.83	0	0	0	0	0	1	0	0	11.94	10.26	0	0	1
2021	12	13	12.6	2.25	0	0	0	0	0	0	12.6	0	0	0	0	0	0	1	0	12.83	11.94	0	0	1
2021	12	14	12.83	1.67	0	0	0	0	0	0	12.83	0	0	0	0	0	0	0	0	12.6	12.83	0	0	1
2021	12	15	12.53	1.58	0	0	0	0	0	0	12.53	0	0	0	0	0	0	0	0	12.83	12.6	0	0	1
2021	12	16	16	3.92	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	12.53	12.83	0	0	1
2021	12	17	15.68	3.11	0	0	0	0	0	0	15.68	0	0	0	0	0	0	0	1	16	12.53	0	0	1
2021	12	18	12.09	1.73	0	0	0	0	0	0	12.09	0	0	0	0	0	1	0	0	15.68	16	0	0	1
2021	12	19	13.92	1.92	0	0	0	0	0	0	13.92	0	0	0	0	1	0	0	0	12.09	15.68	0	0	1
2021	12	20	14.02	1.5	0	0	0	0	0	0	14.02	0	0	0	0	0	0	1	0	13.92	12.09	0	0	1
2021	12	21	11.5	0.66	0	0	0	0	0	0	11.5	0	0	0	0	0	0	0	0	14.02	13.92	0	0	1
2021	12	22	10.44	0.82	0	0	0	0	0	0	10.44	0	0	0	0	0	0	0	0	11.5	14.02	0	0	1
2021	12	23	12.05	0.13	0	0	0	0	0	0	12.05	0	0	0	0	0	0	0	0	10.44	11.5	0	0	1
2021	12	24	11.53	1.05	0	0	0	0	0	0	11.53	0	0	0	0	0	0	0	1	12.05	10.44	0	0	1
2021	12	25	12.64	2.66	0	0	0	0	0	0	12.64	0	0	0	0	0	1	0	0	11.53	12.05	0	0	1

2021	12	26	14.7	3.66	0	0	0	0	0	0	14.7	0	0	0	0	1	0	0	0	12.64	11.53	0	0	1
2021	12	27	14.49	2.3	0	0	0	0	0	0	14.49	0	0	0	0	0	0	1	0	14.7	12.64	0	0	1
2021	12	28	13.86	2.99	0	0	0	0	0	0	13.86	0	0	0	0	0	0	0	0	14.49	14.7	0	0	1
2021	12	29	14.41	2.57	0	0	0	0	0	0	14.41	0	0	0	0	0	0	0	0	13.86	14.49	0	0	1
2021	12	30	16.07	3.52	0	0	0	0	0	0	16.07	0	0	0	0	0	0	0	0	14.41	13.86	0	0	1
2021	12	31	16.79	4.92	0	0	0	0	0	0	16.79	0	0	0	0	0	0	0	1	16.07	14.41	0	0	1

2018	6	11	19,383.80	19,044.52	611.769	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2018	6	12	19,815.32	19,044.52	305.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	465.405	0	0
2018	6	13	19,392.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	232.334	115.67	0
2018	6	14	20,291.87	19,044.52	1,189.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57.743	0
2018	6	15	20,078.87	19,044.52	310.247	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	904.995	0	0
2018	6	16	18,607.10	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	236.022	224.924	0
2018	6	17	18,212.12	19,044.52	73.684	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	58.66	0
2018	6	18	19,228.50	19,044.52	400.413	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	56.055	0	0
2018	6	19	19,363.07	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	304.615	13.932	0
2018	6	20	19,120.23	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.708	0
2018	6	21	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	6	22	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2018	6	23	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2018	6	24	18,142.57	19,044.52	0	0	0	0	0	0	0	0	0	0	0	62.797	-964.744	0	0	0	0	0	0
2018	6	25	18,886.43	19,044.52	114.404	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2018	6	26	19,131.55	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87.033	0	0
2018	6	27	19,066.15	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.631	0
2018	6	28	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	6	29	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2018	6	30	18,889.26	19,044.52	0	0	0	0	0	0	0	0	0	0	0	743.099	0	-898.36	0	0	0	0	0
2018	7	1	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0
2018	7	2	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2018	7	3	19,666.44	19,044.52	0	0	0	0	0	0	0	0	0	621.923	0	0	0	0	0	0	0	0	0
2018	7	4	22,962.40	19,044.52	0	0	0	0	0	0	0	0	0	3,917.89	0	0	0	0	0	0	0	0	0
2018	7	5	21,855.99	19,044.52	0	0	0	0	0	0	0	0	0	2,811.47	0	0	0	0	0	0	0	0	0
2018	7	6	19,282.90	19,044.52	0	0	0	0	0	0	0	0	0	419.274	0	0	0	0	0	-180.897	0	0	0
2018	7	7	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2018	7	8	18,741.30	19,044.52	0	0	0	0	0	0	0	0	0	661.522	0	0	-964.744	0	0	0	0	0	0
2018	7	9	19,193.63	19,044.52	0	0	0	0	0	0	0	0	0	421.604	0	0	0	0	-272.491	0	0	0	0
2018	7	10	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	7	11	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	7	12	19,482.43	19,044.52	0	0	0	0	0	0	0	0	0	437.909	0	0	0	0	0	0	0	0	0
2018	7	13	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2018	7	14	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2018	7	15	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0
2018	7	16	20,432.82	19,044.52	0	0	0	0	0	0	0	0	0	1,660.79	0	0	0	0	-272.491	0	0	0	0
2018	7	17	19,084.12	19,044.52	0	0	0	0	0	0	0	0	0	39.598	0	0	0	0	0	0	0	0	0
2018	7	18	19,156.33	19,044.52	0	0	0	0	0	0	0	0	0	111.806	0	0	0	0	0	0	0	0	0
2018	7	19	19,533.67	19,044.52	0	0	0	0	0	0	0	0	0	489.153	0	0	0	0	0	0	0	0	0
2018	7	20	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2018	7	21	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2018	7	22	18,480.42	19,044.52	0	0	0	0	0	0	0	0	0	400.64	0	0	-964.744	0	0	0	0	0	0
2018	7	23	20,465.43	19,044.52	0	0	0	0	0	0	0	0	0	1,693.40	0	0	0	0	-272.491	0	0	0	0
2018	7	24	21,366.83	19,044.52	0	0	0	0	0	0	0	0	0	2,322.31	0	0	0	0	0	0	0	0	0
2018	7	25	21,490.29	19,044.52	0	0	0	0	0	0	0	0	0	2,445.77	0	0	0	0	0	0	0	0	0
2018	7	26	21,341.21	19,044.52	0	0	0	0	0	0	0	0	0	2,296.69	0	0	0	0	0	0	0	0	0
2018	7	27	20,324.09	19,044.52	0	0	0	0	0	0	0	0	0	1,460.47	0	0	0	0	0	-180.897	0	0	0
2018	7	28	19,110.49	19,044.52	0	0	0	0	0	0	0	0	0	964.331	0	0	0	-898.36	0	0	0	0	0
2018	7	29	19,628.76	19,044.52	0	0	0	0	0	0	0	0	0	1,548.99	0	0	-964.744	0	0	0	0	0	0
2018	7	30	21,366.87	19,044.52	0	0	0	0	0	0	0	0	0	2,594.84	0	0	0	0	-272.491	0	0	0	0
2018	7	31	21,443.70	19,044.52	0	0	0	0	0	0	0	0	0	2,399.18	0	0	0	0	0	0	0	0	0
2018	8	1	21,157.14	19,044.52	0	0	0	0	0	0	0	0	0	2,112.62	0	0	0	0	0	0	0	0	0
2018	8	2	20,423.81	19,044.52	0	0	0	0	0	0	0	0	0	1,379.29	0	0	0	0	0	0	0	0	0
2018	8	3	22,015.31	19,044.52	0	0	0	0	0	0	0	0	0	3,151.69	0	0	0	0	0	-180.897	0	0	0

2018	8	4	20,231.19	19,044.52	0	0	0	0	0	0	0	0	0	2,085.03	0	0	0	0	-898.36	0	0	0	0	0	
2018	8	5	19,288.96	19,044.52	0	0	0	0	0	0	0	0	0	1,209.18	0	0	0	-964.744	0	0	0	0	0	0	
2018	8	6	20,585.80	19,044.52	0	0	0	0	0	0	0	0	0	1,813.77	0	0	0	0	0	-272.491	0	0	0	0	
2018	8	7	20,890.48	19,044.52	0	0	0	0	0	0	0	0	0	1,845.96	0	0	0	0	0	0	0	0	0	0	
2018	8	8	21,104.27	19,044.52	0	0	0	0	0	0	0	0	0	2,059.75	0	0	0	0	0	0	0	0	0	0	
2018	8	9	20,391.63	19,044.52	0	0	0	0	0	0	0	0	0	1,347.11	0	0	0	0	0	0	0	0	0	0	
2018	8	10	20,999.23	19,044.52	0	0	0	0	0	0	0	0	0	2,135.61	0	0	0	0	0	0	-180.897	0	0	0	
2018	8	11	19,463.39	19,044.52	0	0	0	0	0	0	0	0	0	1,317.23	0	0	0	0	-898.36	0	0	0	0	0	
2018	8	12	19,454.47	19,044.52	0	0	0	0	0	0	0	0	0	1,374.70	0	0	0	-964.744	0	0	0	0	0	0	
2018	8	13	19,608.80	19,044.52	0	0	0	0	0	0	0	0	0	836.772	0	0	0	0	0	-272.491	0	0	0	0	
2018	8	14	20,205.43	19,044.52	0	0	0	0	0	0	0	0	0	1,160.91	0	0	0	0	0	0	0	0	0	0	
2018	8	15	20,219.22	19,044.52	0	0	0	0	0	0	0	0	0	1,174.70	0	0	0	0	0	0	0	0	0	0	
2018	8	16	21,099.67	19,044.52	0	0	0	0	0	0	0	0	0	2,055.15	0	0	0	0	0	0	0	0	0	0	
2018	8	17	19,098.10	19,044.52	0	0	0	0	0	0	0	0	0	234.48	0	0	0	0	0	0	-180.897	0	0	0	
2018	8	18	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0	
2018	8	19	18,721.15	19,044.52	0	0	0	0	0	0	0	0	0	641.372	0	0	0	-964.744	0	0	0	0	0	0	
2018	8	20	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0	
2018	8	21	19,334.17	19,044.52	0	0	0	0	0	0	0	0	0	289.652	0	0	0	0	0	0	0	0	0	0	
2018	8	22	20,056.00	19,044.52	0	0	0	0	0	0	0	0	0	1,011.48	0	0	0	0	0	0	0	0	0	0	
2018	8	23	20,515.77	19,044.52	0	0	0	0	0	0	0	0	0	1,471.25	0	0	0	0	0	0	0	0	0	0	
2018	8	24	19,882.00	19,044.52	0	0	0	0	0	0	0	0	0	1,018.38	0	0	0	0	0	0	-180.897	0	0	0	
2018	8	25	19,166.84	19,044.52	0	0	0	0	0	0	0	0	0	1,020.68	0	0	0	0	-898.36	0	0	0	0	0	
2018	8	26	18,530.35	19,044.52	0	0	0	0	0	0	0	0	0	450.569	0	0	0	-964.744	0	0	0	0	0	0	
2018	8	27	20,590.40	19,044.52	0	0	0	0	0	0	0	0	0	1,818.37	0	0	0	0	0	-272.491	0	0	0	0	
2018	8	28	21,600.81	19,044.52	0	0	0	0	0	0	0	0	0	2,556.29	0	0	0	0	0	0	0	0	0	0	
2018	8	29	22,467.47	19,044.52	0	0	0	0	0	0	0	0	0	3,422.95	0	0	0	0	0	0	0	0	0	0	
2018	8	30	21,391.62	19,044.52	0	0	0	0	0	0	0	0	0	2,347.10	0	0	0	0	0	0	0	0	0	0	
2018	8	31	18,916.50	19,044.52	0	0	0	0	0	0	0	0	0	52.873	0	0	0	0	0	0	-180.897	0	0	0	
2018	9	1	18,161.42	19,044.52	0	0	0	0	0	0	0	0	0	0	0	15.258	0	0	-898.36	0	0	0	0	0	0
2018	9	2	18,260.10	19,044.52	0	0	0	0	0	0	0	0	0	0	0	180.324	0	-964.744	0	0	0	0	0	0	
2018	9	3	19,544.65	19,044.52	0	0	0	0	0	0	0	0	0	0	0	772.62	0	0	0	-272.491	0	0	0	0	
2018	9	4	19,989.14	19,044.52	0	0	0	0	0	0	0	0	0	0	0	944.621	0	0	0	0	0	0	0	0	
2018	9	5	19,402.39	19,044.52	0	0	0	0	0	0	0	0	0	0	0	357.874	0	0	0	0	0	0	0	0	
2018	9	6	20,359.50	19,044.52	0	0	0	0	0	0	0	0	0	0	0	1,314.98	0	0	0	0	0	0	0	0	
2018	9	7	18,885.82	19,044.52	0	0	0	0	0	0	0	0	0	0	0	22.194	0	0	0	0	-180.897	0	0	0	
2018	9	8	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0	
2018	9	9	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0	
2018	9	10	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0	
2018	9	11	19,170.75	19,044.52	0	0	0	0	0	0	0	0	0	0	0	126.227	0	0	0	0	0	0	0	0	
2018	9	12	19,609.07	19,044.52	0	0	0	0	0	0	0	0	0	0	0	564.553	0	0	0	0	0	0	0	0	
2018	9	13	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2018	9	14	18,964.88	19,044.52	0	0	0	0	0	0	0	0	0	0	0	101.259	0	0	0	0	-180.897	0	0	0	
2018	9	15	18,735.68	19,044.52	0	0	0	0	0	0	0	0	0	0	0	589.521	0	0	-898.36	0	0	0	0	0	
2018	9	16	18,558.33	19,044.52	0	0	0	0	0	0	0	0	0	0	0	478.553	0	-964.744	0	0	0	0	0	0	
2018	9	17	19,562.68	19,044.52	0	0	0	0	0	0	0	0	0	0	0	790.652	0	0	0	-272.491	0	0	0	0	
2018	9	18	19,793.56	19,044.52	0	0	0	0	0	0	0	0	0	0	0	749.039	0	0	0	0	0	0	0	0	
2018	9	19	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2018	9	20	19,218.06	19,044.52	173.545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2018	9	21	18,995.65	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	132.025	0	0	
2018	9	22	18,178.97	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	32.813	0	
2018	9	23	18,120.50	19,044.52	40.72	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0	
2018	9	24	19,503.00	19,044.52	699.996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	30.978	0	0	
2018	9	25	20,348.73	19,044.52	763.984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	532.524	7.699	0	
2018	9	26	19,758.07	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	581.203	132.351	0	

2019	5	1	21,986.06	19,044.52	1,440.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,199.28	301.549	0
2019	5	2	21,628.22	19,044.52	1,189.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,096.03	298.066	0
2019	5	3	21,498.21	19,044.52	1,457.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	904.995	272.402	0
2019	5	4	21,301.38	19,044.52	1,821.73	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	1,108.56	224.924	0
2019	5	5	21,038.41	19,044.52	1,297.22	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	1,385.89	275.518	0
2019	5	6	21,687.54	19,044.52	1,584.20	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	986.865	344.444	0
2019	5	7	21,710.76	19,044.52	1,215.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,205.19	245.272	0
2019	5	8	20,889.46	19,044.52	620.495	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	924.909	299.532	0
2019	5	9	20,968.04	19,044.52	1,221.60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	472.043	229.873	0
2019	5	10	21,689.35	19,044.52	1,779.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	929.335	117.32	0
2019	5	11	20,448.02	19,044.52	717.447	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	1,353.44	230.973	0
2019	5	12	19,989.65	19,044.52	1,027.70	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	545.8	336.378	0
2019	5	13	21,643.09	19,044.52	1,953.59	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	781.821	135.651	0
2019	5	14	22,760.06	19,044.52	2,035.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,486.20	194.311	0
2019	5	15	22,829.35	19,044.52	1,867.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,548.15	369.374	0
2019	5	16	22,383.63	19,044.52	1,533.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,420.56	384.772	0
2019	5	17	21,677.83	19,044.52	1,294.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	1,166.83	353.059	0
2019	5	18	20,577.45	19,044.52	1,156.64	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	984.652	290	0
2019	5	19	20,036.27	19,044.52	831.851	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	879.918	244.722	0
2019	5	20	20,820.91	19,044.52	1,197.36	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	632.833	218.691	0
2019	5	21	21,582.49	19,044.52	1,469.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	910.896	157.282	0
2019	5	22	21,951.93	19,044.52	1,562.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,118.15	226.391	0
2019	5	23	21,100.85	19,044.52	589.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,188.96	277.901	0
2019	5	24	20,818.50	19,044.52	1,210.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	448.441	295.499	0
2019	5	25	19,178.83	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	921.222	111.454	0
2019	5	26	19,369.39	19,044.52	1,060.66	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	228.957	0
2019	5	27	20,934.32	19,044.52	1,355.39	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	806.899	0	0
2019	5	28	21,018.84	19,044.52	742.655	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,031.12	200.544	0
2019	5	29	21,240.55	19,044.52	1,374.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	564.977	256.27	0
2019	5	30	21,405.87	19,044.52	1,175.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,045.87	140.417	0
2019	5	31	21,435.90	19,044.52	1,418.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	893.932	259.937	0
2019	6	1	20,309.30	19,044.52	861.906	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	1,079.06	222.174	0
2019	6	2	19,935.37	19,044.52	931.712	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	655.697	268.186	0
2019	6	3	20,368.03	19,044.52	724.234	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	708.802	162.965	0
2019	6	4	20,167.21	19,044.52	395.565	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	550.963	176.163	0
2019	6	5	20,371.43	19,044.52	889.053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300.927	136.934	0
2019	6	6	20,313.39	19,044.52	517.725	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	676.349	74.791	0
2019	6	7	19,425.58	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	393.861	168.097	0
2019	6	8	18,244.05	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	97.889	0
2019	6	9	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0	0
2019	6	10	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2019	6	11	19,161.83	19,044.52	117.312	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	12	19,133.77	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89.246	0	0
2019	6	13	19,066.70	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.181	0
2019	6	14	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2019	6	15	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2019	6	16	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0	0
2019	6	17	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2019	6	18	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	19	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	20	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	21	18,871.38	19,044.52	7.756	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2019	6	22	18,152.06	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	5.901	0	0
2019	6	23	18,467.00	19,044.52	0	0	0	0	0	0	0	0	0	0	0	385.753	-964.744	0	0	0	0	1.466	0

2019	6	24	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2019	6	25	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	26	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	27	19,052.28	19,044.52	7.756	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	6	28	18,899.58	19,044.52	30.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	5.901	0	0
2019	6	29	18,256.78	19,044.52	86.288	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	22.865	1.466	0
2019	6	30	18,151.10	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	65.643	5.683	0
2019	7	1	18,788.34	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	16.315	0
2019	7	2	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	7	3	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	7	4	20,730.93	19,044.52	0	0	0	0	0	0	0	0	0	1,686.41	0	0	0	0	0	0	0	0	0
2019	7	5	22,213.16	19,044.52	0	0	0	0	0	0	0	0	0	3,349.54	0	0	0	0	0	-180.897	0	0	0
2019	7	6	20,105.10	19,044.52	0	0	0	0	0	0	0	0	0	1,958.94	0	0	0	-898.36	0	0	0	0	0
2019	7	7	19,416.79	19,044.52	0	0	0	0	0	0	0	0	0	1,337.02	0	0	-964.744	0	0	0	0	0	0
2019	7	8	19,638.53	19,044.52	0	0	0	0	0	0	0	0	0	866.5	0	0	0	0	-272.491	0	0	0	0
2019	7	9	20,742.58	19,044.52	0	0	0	0	0	0	0	0	0	1,698.06	0	0	0	0	0	0	0	0	0
2019	7	10	19,582.59	19,044.52	0	0	0	0	0	0	0	0	0	538.069	0	0	0	0	0	0	0	0	0
2019	7	11	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	7	12	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2019	7	13	18,295.23	19,044.52	0	0	0	0	0	0	0	0	0	149.075	0	0	0	-898.36	0	0	0	0	0
2019	7	14	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0
2019	7	15	19,962.30	19,044.52	0	0	0	0	0	0	0	0	0	1,190.27	0	0	0	0	-272.491	0	0	0	0
2019	7	16	21,052.38	19,044.52	0	0	0	0	0	0	0	0	0	2,007.86	0	0	0	0	0	0	0	0	0
2019	7	17	19,859.78	19,044.52	0	0	0	0	0	0	0	0	0	815.255	0	0	0	0	0	0	0	0	0
2019	7	18	20,323.31	19,044.52	0	0	0	0	0	0	0	0	0	1,278.79	0	0	0	0	0	0	0	0	0
2019	7	19	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2019	7	20	21,428.15	19,044.52	0	0	0	0	0	0	0	0	0	3,281.99	0	0	0	-898.36	0	0	0	0	0
2019	7	21	20,770.12	19,044.52	0	0	0	0	0	0	0	0	0	2,690.34	0	0	-964.744	0	0	0	0	0	0
2019	7	22	20,488.72	19,044.52	0	0	0	0	0	0	0	0	0	1,716.70	0	0	0	0	-272.491	0	0	0	0
2019	7	23	19,706.04	19,044.52	0	0	0	0	0	0	0	0	0	661.522	0	0	0	0	0	0	0	0	0
2019	7	24	19,317.05	19,044.52	0	0	0	0	0	0	0	0	0	272.528	0	0	0	0	0	0	0	0	0
2019	7	25	20,134.63	19,044.52	0	0	0	0	0	0	0	0	0	1,090.11	0	0	0	0	0	0	0	0	0
2019	7	26	19,639.28	19,044.52	0	0	0	0	0	0	0	0	0	775.657	0	0	0	0	0	-180.897	0	0	0
2019	7	27	18,730.81	19,044.52	0	0	0	0	0	0	0	0	0	584.655	0	0	0	-898.36	0	0	0	0	0
2019	7	28	18,405.88	19,044.52	0	0	0	0	0	0	0	0	0	326.102	0	0	-964.744	0	0	0	0	0	0
2019	7	29	19,985.59	19,044.52	0	0	0	0	0	0	0	0	0	1,213.57	0	0	0	0	-272.491	0	0	0	0
2019	7	30	20,716.96	19,044.52	0	0	0	0	0	0	0	0	0	1,672.44	0	0	0	0	0	0	0	0	0
2019	7	31	21,040.73	19,044.52	0	0	0	0	0	0	0	0	0	1,996.21	0	0	0	0	0	0	0	0	0
2019	8	1	21,414.61	19,044.52	0	0	0	0	0	0	0	0	2,370.09	0	0	0	0	0	0	0	0	0	0
2019	8	2	21,192.33	19,044.52	0	0	0	0	0	0	0	0	2,328.71	0	0	0	0	0	0	-180.897	0	0	0
2019	8	3	20,132.34	19,044.52	0	0	0	0	0	0	0	0	1,986.18	0	0	0	0	-898.36	0	0	0	0	0
2019	8	4	19,546.43	19,044.52	0	0	0	0	0	0	0	0	1,466.65	0	0	0	-964.744	0	0	0	0	0	0
2019	8	5	20,040.98	19,044.52	0	0	0	0	0	0	0	0	1,268.95	0	0	0	0	0	-272.491	0	0	0	0
2019	8	6	19,770.95	19,044.52	0	0	0	0	0	0	0	0	726.428	0	0	0	0	0	0	0	0	0	0
2019	8	7	19,476.70	19,044.52	0	0	0	0	0	0	0	0	432.179	0	0	0	0	0	0	0	0	0	0
2019	8	8	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	8	9	19,254.42	19,044.52	0	0	0	0	0	0	0	0	390.8	0	0	0	0	0	0	-180.897	0	0	0
2019	8	10	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2019	8	11	18,367.13	19,044.52	0	0	0	0	0	0	0	0	287.353	0	0	0	-964.744	0	0	0	0	0	0
2019	8	12	20,254.77	19,044.52	0	0	0	0	0	0	0	0	1,482.74	0	0	0	0	0	-272.491	0	0	0	0
2019	8	13	19,207.74	19,044.52	0	0	0	0	0	0	0	0	163.216	0	0	0	0	0	0	0	0	0	0
2019	8	14	19,456.01	19,044.52	0	0	0	0	0	0	0	0	411.489	0	0	0	0	0	0	0	0	0	0
2019	8	15	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	8	16	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0

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2020	5	13	22,035.25	19,044.52	1,807.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	983.177	200.36	0
2020	5	14	21,802.89	19,044.52	1,139.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,374.83	244.355	0
2020	5	15	21,078.32	19,044.52	1,006.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	866.642	341.694	0
2020	5	16	20,577.55	19,044.52	1,450.41	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	765.595	215.392	0
2020	5	17	19,887.30	19,044.52	513.847	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	1,103.40	190.278	0
2020	5	18	20,362.10	19,044.52	924.925	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	390.911	274.235	0
2020	5	19	20,838.11	19,044.52	992.792	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	703.639	97.155	0
2020	5	20	21,045.02	19,044.52	1,070.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	755.269	174.88	0
2020	5	21	20,046.51	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	814.274	187.712	0
2020	5	22	19,066.00	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	202.377	0
2020	5	23	19,232.03	19,044.52	1,085.87	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2020	5	24	20,230.22	19,044.52	1,324.37	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	826.075	0	0
2020	5	25	21,230.69	19,044.52	1,245.84	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	1,007.52	205.31	0
2020	5	26	20,242.70	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	947.774	250.404	0
2020	5	27	19,280.08	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	235.556	0
2020	5	28	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	5	29	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2020	5	30	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2020	5	31	18,578.11	19,044.52	498.335	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0	0
2020	6	1	19,274.27	19,044.52	123.129	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	379.11	0	0
2020	6	2	19,806.37	19,044.52	573.958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93.671	94.222	0
2020	6	3	20,756.09	19,044.52	1,251.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	436.64	23.281	0
2020	6	4	20,105.24	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	952.199	108.521	0
2020	6	5	19,103.19	19,044.52	2.909	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	236.656	0
2020	6	6	18,566.24	19,044.52	417.864	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	2.213	0	0
2020	6	7	18,753.06	19,044.52	354.845	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	317.892	0.55	0
2020	6	8	19,343.98	19,044.52	222.99	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	269.95	79.008	0
2020	6	9	19,684.57	19,044.52	403.322	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169.64	67.092	0
2020	6	10	20,187.55	19,044.52	794.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	306.828	42.162	0
2020	6	11	20,441.32	19,044.52	716.478	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	604.068	76.258	0
2020	6	12	19,646.07	19,044.52	87.257	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	545.062	150.133	0
2020	6	13	18,348.01	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	66.381	135.468	0
2020	6	14	18,096.27	19,044.52	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	16.498	0
2020	6	15	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2020	6	16	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	6	17	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	6	18	19,685.95	19,044.52	0	0	0	0	0	0	0	0	0	0	0	641.427	0	0	0	0	0	0	0
2020	6	19	20,491.86	19,044.52	0	0	0	0	0	0	0	0	0	0	0	1,628.24	0	0	0	-180.897	0	0	0
2020	6	20	19,608.43	19,044.52	0	0	0	0	0	0	0	0	0	0	0	1,462.27	0	-898.36	0	0	0	0	0
2020	6	21	18,469.52	19,044.52	389.748	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0
2020	6	22	19,068.53	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	296.502	0	0
2020	6	23	19,118.21	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73.691	0
2020	6	24	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	6	25	19,374.95	19,044.52	0	0	0	0	0	0	0	0	0	0	0	330.432	0	0	0	0	0	0	0
2020	6	26	19,141.72	19,044.52	0	0	0	0	0	0	0	0	0	0	0	278.101	0	0	0	-180.897	0	0	0
2020	6	27	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2020	6	28	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0
2020	6	29	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2020	6	30	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	1	19,160.98	19,044.52	0	0	0	0	0	0	0	0	0	116.465	0	0	0	0	0	0	0	0	0
2020	7	2	19,421.87	19,044.52	0	0	0	0	0	0	0	0	0	377.347	0	0	0	0	0	0	0	0	0
2020	7	3	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2020	7	4	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0
2020	7	5	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	0

2020	7	6	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2020	7	7	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	8	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	9	19,633.83	19,044.52	0	0	0	0	0	0	0	0	0	589.313	0	0	0	0	0	0	0	0	0
2020	7	10	19,956.07	19,044.52	0	0	0	0	0	0	0	0	0	1,092.44	0	0	0	0	0	-180.897	0	0	0
2020	7	11	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	0	0
2020	7	12	18,759.93	19,044.52	0	0	0	0	0	0	0	0	0	680.156	0	0	-964.744	0	0	0	0	0	0
2020	7	13	20,004.23	19,044.52	0	0	0	0	0	0	0	0	0	1,232.20	0	0	0	0	-272.491	0	0	0	0
2020	7	14	19,377.61	19,044.52	0	0	0	0	0	0	0	0	0	333.09	0	0	0	0	0	0	0	0	0
2020	7	15	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	16	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	7	17	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0
2020	7	18	18,893.87	19,044.52	0	0	0	0	0	0	0	0	0	747.706	0	0	0	-898.36	0	0	0	0	0
2020	7	19	18,410.54	19,044.52	0	0	0	0	0	0	0	0	0	330.761	0	0	-964.744	0	0	0	0	0	0
2020	7	20	19,813.23	19,044.52	0	0	0	0	0	0	0	0	0	1,041.20	0	0	0	0	-272.491	0	0	0	0
2020	7	21	22,251.97	19,044.52	0	0	0	0	0	0	0	0	0	3,207.45	0	0	0	0	0	0	0	0	0
2020	7	22	21,031.41	19,044.52	0	0	0	0	0	0	0	0	0	1,986.89	0	0	0	0	0	0	0	0	0
2020	7	23	19,610.54	19,044.52	0	0	0	0	0	0	0	0	0	566.02	0	0	0	0	0	0	0	0	0
2020	7	24	21,157.98	19,044.52	0	0	0	0	0	0	0	0	0	2,294.36	0	0	0	0	0	-180.897	0	0	0
2020	7	25	20,200.60	19,044.52	0	0	0	0	0	0	0	0	0	2,054.44	0	0	0	-898.36	0	0	0	0	0
2020	7	26	19,493.66	19,044.52	0	0	0	0	0	0	0	0	0	1,413.89	0	0	-964.744	0	0	0	0	0	0
2020	7	27	19,750.33	19,044.52	0	0	0	0	0	0	0	0	0	978.307	0	0	0	0	-272.491	0	0	0	0
2020	7	28	21,187.48	19,044.52	0	0	0	0	0	0	0	0	0	2,142.96	0	0	0	0	0	0	0	0	0
2020	7	29	21,795.42	19,044.52	0	0	0	0	0	0	0	0	0	2,750.91	0	0	0	0	0	0	0	0	0
2020	7	30	20,444.43	19,044.52	0	0	0	0	0	0	0	0	0	1,399.91	0	0	0	0	0	0	0	0	0
2020	7	31	20,182.01	19,044.52	0	0	0	0	0	0	0	0	0	1,318.39	0	0	0	0	0	-180.897	0	0	0
2020	8	1	19,971.43	19,044.52	0	0	0	0	0	0	0	0	1,825.27	0	0	0	0	-898.36	0	0	0	0	0
2020	8	2	19,962.51	19,044.52	0	0	0	0	0	0	0	0	1,882.74	0	0	0	-964.744	0	0	0	0	0	0
2020	8	3	19,440.99	19,044.52	0	0	0	0	0	0	0	0	668.958	0	0	0	0	0	-272.491	0	0	0	0
2020	8	4	21,683.57	19,044.52	0	0	0	0	0	0	0	0	2,639.05	0	0	0	0	0	0	0	0	0	0
2020	8	5	20,598.52	19,044.52	0	0	0	0	0	0	0	0	1,554.01	0	0	0	0	0	0	0	0	0	0
2020	8	6	20,708.87	19,044.52	0	0	0	0	0	0	0	0	1,664.35	0	0	0	0	0	0	0	0	0	0
2020	8	7	20,525.67	19,044.52	0	0	0	0	0	0	0	0	1,662.05	0	0	0	0	0	0	-180.897	0	0	0
2020	8	8	18,449.60	19,044.52	0	0	0	0	0	0	0	0	303.445	0	0	0	0	-898.36	0	0	0	0	0
2020	8	9	19,829.18	19,044.52	0	0	0	0	0	0	0	0	1,749.41	0	0	0	-964.744	0	0	0	0	0	0
2020	8	10	20,401.89	19,044.52	0	0	0	0	0	0	0	0	1,629.87	0	0	0	0	0	-272.491	0	0	0	0
2020	8	11	19,878.99	19,044.52	0	0	0	0	0	0	0	0	834.473	0	0	0	0	0	0	0	0	0	0
2020	8	12	19,878.99	19,044.52	0	0	0	0	0	0	0	0	834.473	0	0	0	0	0	0	0	0	0	0
2020	8	13	20,816.91	19,044.52	0	0	0	0	0	0	0	0	1,772.39	0	0	0	0	0	0	0	0	0	0
2020	8	14	20,440.62	19,044.52	0	0	0	0	0	0	0	0	1,576.99	0	0	0	0	0	0	-180.897	0	0	0
2020	8	15	18,881.78	19,044.52	0	0	0	0	0	0	0	0	735.624	0	0	0	0	-898.36	0	0	0	0	0
2020	8	16	18,167.13	19,044.52	0	0	0	0	0	0	0	0	87.355	0	0	0	-964.744	0	0	0	0	0	0
2020	8	17	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	0	0
2020	8	18	19,743.36	19,044.52	0	0	0	0	0	0	0	0	698.842	0	0	0	0	0	0	0	0	0	0
2020	8	19	19,589.34	19,044.52	0	0	0	0	0	0	0	0	544.821	0	0	0	0	0	0	0	0	0	0
2020	8	20	20,019.22	19,044.52	0	0	0	0	0	0	0	0	974.701	0	0	0	0	0	0	0	0	0	0
2020	8	21	19,325.69	19,044.52	0	0	0	0	0	0	0	0	462.064	0	0	0	0	0	0	-180.897	0	0	0
2020	8	22	18,884.08	19,044.52	0	0	0	0	0	0	0	0	737.922	0	0	0	0	-898.36	0	0	0	0	0
2020	8	23	19,075.17	19,044.52	0	0	0	0	0	0	0	0	995.391	0	0	0	-964.744	0	0	0	0	0	0
2020	8	24	20,558.21	19,044.52	0	0	0	0	0	0	0	0	1,786.19	0	0	0	0	0	-272.491	0	0	0	0
2020	8	25	19,734.17	19,044.52	0	0	0	0	0	0	0	0	689.647	0	0	0	0	0	0	0	0	0	0
2020	8	26	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	8	27	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	8	28	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	0

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2020	8	29	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0
2020	8	30	18,693.56	19,044.52	0	0	0	0	0	0	0	0	613.786	0	0	0	-964.744	0	0	0	0	
2020	8	31	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	
2020	9	1	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2020	9	2	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2020	9	3	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2020	9	4	19,188.21	19,044.52	0	0	0	0	0	0	0	0	0	324.583	0	0	0	0	-180.897	0	0	
2020	9	5	18,405.55	19,044.52	0	0	0	0	0	0	0	0	0	259.389	0	0	-898.36	0	0	0	0	
2020	9	6	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	
2020	9	7	18,772.03	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	0	
2020	9	8	19,502.27	19,044.52	0	0	0	0	0	0	0	0	0	457.746	0	0	0	0	0	0	0	
2020	9	9	19,205.42	19,044.52	0	0	0	0	0	0	0	0	0	160.905	0	0	0	0	0	0	0	
2020	9	10	19,733.91	19,044.52	0	0	0	0	0	0	0	0	0	689.393	0	0	0	0	0	0	0	
2020	9	11	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	
2020	9	12	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	0	
2020	9	13	18,079.78	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	
2020	9	14	18,970.38	19,044.52	0	0	0	0	0	0	0	0	0	198.357	0	0	0	-272.491	0	0	0	
2020	9	15	19,283.02	19,044.52	238.503	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2020	9	16	19,252.14	19,044.52	26.177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181.442	0	
2020	9	17	19,167.79	19,044.52	0	0	0	0	0	0	0	0	0	58.259	0	0	0	0	0	19.914	45.095	
2020	9	18	18,868.57	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	4.949	
2020	9	19	18,411.81	19,044.52	265.649	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	
2020	9	20	18,992.53	19,044.52	710.66	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	202.093	
2020	9	21	19,897.10	19,044.52	534.207	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	540.637	
2020	9	22	20,153.43	19,044.52	568.141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	406.4	
2020	9	23	19,577.74	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	432.214	
2020	9	24	19,151.94	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107.421	
2020	9	25	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	
2020	9	26	18,214.03	19,044.52	67.867	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	
2020	9	27	18,131.41	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	51.63	
2020	9	28	19,031.77	19,044.52	0	0	0	0	0	0	0	0	0	246.905	0	0	0	-272.491	0	0	12.832	
2020	9	29	19,326.10	19,044.52	0	0	0	0	0	0	0	0	0	281.583	0	0	0	0	0	0	0	
2020	9	30	19,073.65	19,044.52	0	0	0	0	0	0	0	0	0	29.129	0	0	0	0	0	0	0	
2020	10	1	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2020	10	2	18,863.62	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	0	
2020	10	3	18,146.16	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	
2020	10	4	18,185.03	19,044.52	60.11	0	0	0	0	0	45.142	0	0	0	0	0	-964.744	0	0	0	0	
2020	10	5	19,349.11	19,044.52	303.461	0	0	0	0	0	227.894	0	0	0	0	0	0	0	-272.491	0	45.729	
2020	10	6	19,560.06	19,044.52	156.093	0	0	0	0	0	117.224	0	0	0	0	0	0	0	0	0	230.859	
2020	10	7	19,220.64	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118.748	
2020	10	8	19,439.02	19,044.52	208.447	0	0	0	0	0	156.541	0	0	0	0	0	0	0	0	0	0	
2020	10	9	21,285.13	19,044.52	1,292.37	0	0	0	0	0	970.553	0	0	0	0	0	0	0	0	-180.897	158.577	
2020	10	10	19,246.84	19,044.52	44.598	0	0	0	0	0	33.492	0	0	0	0	0	0	-898.36	0	0	983.177	
2020	10	11	19,089.73	19,044.52	417.864	0	0	0	0	0	313.81	0	0	0	0	0	0	-964.744	0	0	33.928	
2020	10	12	22,289.88	19,044.52	1,822.70	0	0	0	0	0	1,368.82	0	0	0	0	0	0	0	-272.491	0	317.892	
2020	10	13	21,963.32	19,044.52	829.912	0	0	0	0	0	623.251	0	0	0	0	0	0	0	0	0	1,386.63	
2020	10	14	20,020.50	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	631.358	
2020	10	15	19,836.34	19,044.52	362.602	0	0	0	0	0	272.308	0	0	0	0	0	0	0	0	0	0	
2020	10	16	19,524.83	19,044.52	220.082	0	0	0	0	0	165.278	0	0	0	0	0	0	0	0	-180.897	275.85	
2020	10	17	18,565.49	19,044.52	104.709	0	0	0	0	0	78.634	0	0	0	0	0	0	-898.36	0	0	167.428	
2020	10	18	19,961.48	19,044.52	1,005.40	0	0	0	0	0	755.036	0	0	0	0	0	0	-964.744	0	0	79.657	
2020	10	19	20,113.50	19,044.52	318.004	0	0	0	0	0	238.816	0	0	0	0	0	0	0	-272.491	0	764.857	
2020	10	20	19,476.54	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	241.922	
2020	10	21	19,104.65	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60.126	

2020	10	22	19,044.52	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	10	23	20,040.07	19,044.52	671.88	0	0	0	0	0	504.571	0	0	0	0	0	0	0	-180.897	0	0	0
2020	10	24	19,156.39	19,044.52	285.04	0	0	0	0	0	214.06	0	0	0	0	0	0	-898.36	0	0	511.134	0
2020	10	25	20,785.05	19,044.52	1,348.61	0	0	0	0	0	1,012.78	0	0	0	0	0	-964.744	0	0	0	216.845	127.035
2020	10	26	22,462.82	19,044.52	1,491.13	0	0	0	0	0	1,119.81	0	0	0	0	0	0	0	-272.491	0	0	1,025.96
2020	10	27	22,050.02	19,044.52	922.986	0	0	0	0	0	693.148	0	0	0	0	0	0	0	0	0	0	1,134.38
2020	10	28	24,021.42	19,044.52	2,280.32	0	0	0	0	0	1,712.48	0	0	0	0	0	0	0	0	0	0	702.164
2020	10	29	23,690.35	19,044.52	1,562.87	0	0	0	0	0	1,173.69	0	0	0	0	0	0	0	0	0	0	1,734.76
2020	10	30	24,610.64	19,044.52	2,356.91	0	0	0	0	0	1,770.00	0	0	0	0	0	0	0	0	-180.897	0	1,188.96
2020	10	31	24,436.29	19,044.52	2,399.57	0	0	0	0	0	1,802.04	0	0	0	0	0	0	-898.36	0	0	0	1,793.03
2020	11	1	23,983.46	19,044.52	1,452.35	0	0	0	0	0	0	2,180.22	0	0	0	0	-964.744	0	0	0	0	1,825.48
2020	11	2	22,108.09	19,044.52	710.66	0	0	0	0	0	0	1,066.82	0	0	0	0	0	0	-272.491	0	0	1,104.88
2020	11	3	27,411.04	19,044.52	3,019.10	0	0	0	0	0	0	4,532.19	0	0	0	0	0	0	0	0	0	540.637
2020	11	4	29,409.05	19,044.52	3,201.37	-73.789	0	0	0	0	0	4,805.80	0	0	0	0	0	0	0	0	0	2,296.79
2020	11	5	24,483.02	19,044.52	972.432	0	0	0	0	0	0	1,459.79	0	0	0	0	0	0	0	0	0	2,435.45
2020	11	6	20,208.70	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	0	739.78
2020	11	7	18,330.02	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	0	183.862
2020	11	8	21,780.24	19,044.52	1,479.49	0	0	0	0	0	0	2,220.97	0	0	0	0	-964.744	0	0	0	0	0
2020	11	9	21,575.62	19,044.52	670.91	0	0	0	0	0	0	1,007.15	0	0	0	0	0	0	-272.491	0	0	1,125.53
2020	11	10	20,676.11	19,044.52	336.425	0	0	0	0	0	0	505.031	0	0	0	0	0	0	0	0	0	510.397
2020	11	11	19,427.31	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	255.936
2020	11	12	19,108.13	19,044.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	11	13	22,690.19	19,044.52	1,529.91	0	0	0	0	0	0	2,296.66	0	0	0	0	0	0	0	-180.897	0	0
2020	11	14	24,026.56	19,044.52	1,885.72	0	0	0	0	0	0	2,830.80	0	0	0	0	0	-898.36	0	0	0	1,163.88
2020	11	15	25,696.23	19,044.52	2,355.94	0	0	0	0	0	0	3,536.68	0	0	0	0	-964.744	0	0	0	0	1,434.57
2020	11	16	23,467.05	19,044.52	1,018.00	0	0	0	0	0	0	1,528.19	0	0	0	0	0	0	-272.491	0	0	1,792.29
2020	11	17	24,549.29	19,044.52	1,713.15	0	0	0	0	0	0	2,571.73	0	0	0	0	0	0	0	0	0	774.446
2020	11	18	28,211.12	19,044.52	3,075.33	-21.083	0	0	0	0	0	4,616.60	0	0	0	0	0	0	0	0	0	1,303.28
2020	11	19	29,403.07	19,044.52	3,086.96	-25.948	0	0	0	0	0	4,634.06	0	0	0	0	0	0	0	0	0	2,339.56
2020	11	20	23,583.11	19,044.52	715.508	0	0	0	0	0	0	1,074.10	0	0	0	0	0	0	0	-180.897	0	2,348.41
2020	11	21	21,228.66	19,044.52	781.436	0	0	0	0	0	0	1,173.07	0	0	0	0	0	-898.36	0	0	0	544.325
2020	11	22	25,972.83	19,044.52	2,863.97	0	0	0	0	0	0	4,299.32	0	0	0	0	-964.744	0	0	0	0	594.479
2020	11	23	23,622.92	19,044.52	1,009.27	0	0	0	0	0	0	1,515.09	0	0	0	0	0	0	-272.491	0	0	2,178.77
2020	11	24	26,110.65	19,044.52	2,301.65	0	0	0	0	0	0	3,455.17	0	0	0	0	0	0	0	0	0	767.808
2020	11	25	28,877.30	19,044.52	3,181.01	-65.275	0	0	0	0	0	4,775.24	0	0	0	0	0	0	0	0	0	1,750.99
2020	11	26	24,290.66	19,044.52	955.95	0	0	0	0	0	0	1,435.05	0	0	0	0	0	0	0	0	0	2,419.96
2020	11	27	20,941.62	19,044.52	299.583	0	0	0	0	0	0	449.725	0	0	0	0	0	0	0	-180.897	0	727.241
2020	11	28	21,348.35	19,044.52	1,116.89	0	0	0	0	0	0	1,676.65	0	0	0	0	0	-898.36	0	0	0	227.908
2020	11	29	23,799.61	19,044.52	1,924.50	0	0	0	0	0	0	2,889.01	0	0	0	0	-964.744	0	0	0	0	849.678
2020	11	30	24,681.23	19,044.52	1,692.79	0	0	0	0	0	0	2,541.17	0	0	0	0	0	0	-272.491	0	0	1,464.07
2020	12	1	21,101.38	19,044.52	146.398	0	0	0	0	0	0	0	258.798	0	0	0	0	0	0	0	0	1,287.79
2020	12	2	21,209.44	19,044.52	626.312	0	0	0	0	0	0	0	1,107.18	0	0	0	0	0	0	0	0	111.373
2020	12	3	24,370.77	19,044.52	1,742.23	0	0	0	0	0	0	0	3,079.87	0	0	0	0	0	0	0	0	476.468
2020	12	4	23,457.78	19,044.52	1,138.22	0	0	0	0	0	0	0	2,012.11	0	0	0	0	0	0	-180.897	0	1,325.41
2020	12	5	20,986.41	19,044.52	594.318	0	0	0	0	0	0	0	1,050.62	0	0	0	0	-898.36	0	0	0	865.904
2020	12	6	22,533.41	19,044.52	1,368.00	0	0	0	0	0	0	0	2,418.30	0	0	0	-964.744	0	0	0	0	452.129
2020	12	7	26,794.65	19,044.52	2,481.98	0	0	0	0	0	0	0	4,387.57	0	0	0	0	0	-272.491	0	0	1,040.71
2020	12	8	28,796.15	19,044.52	2,747.63	0	0	0	0	0	0	0	4,857.18	0	0	0	0	0	0	0	0	1,888.17
2020	12	9	29,241.07	19,044.52	2,759.26	0	0	0	0	0	0	0	4,877.74	0	0	0	0	0	0	0	0	2,090.27
2020	12	10	29,340.40	19,044.52	2,773.81	0	0	0	0	0	0	0	4,903.45	0	0	0	0	0	0	0	0	2,099.12
2020	12	11	28,848.07	19,044.52	2,656.49	0	0	0	0	0	0	0	4,696.07	0	0	0	0	0	0	-180.897	0	2,110.18
2020	12	12	26,238.17	19,044.52	2,004.00	0	0	0	0	0	0	0	3,542.62	0	0	0	0	-898.36	0	0	0	2,020.93
2020	12	13	23,573.58	19,044.52	1,252.62	0	0	0	0	0	0	0	2,214.35	0	0	0	-964.744	0	0	0	0	1,524.55
2020	12	14	25,137.96	19,044.52	1,818.83	0	0	0	0	0	0	0	3,215.27	0	0	0	0	0	-272.491	0	0	952.937

2021	5	26	20,251.14	19,044.52	627.863	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	429.596	149.161	0	
2021	5	27	20,346.00	19,044.52	717.059	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	477.649	106.77	0	
2021	5	28	20,100.83	19,044.52	572.988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	545.505	118.713	0	
2021	5	29	19,329.46	19,044.52	611.818	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	435.902	135.578	0	
2021	5	30	19,093.91	19,044.52	440.357	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	465.442	108.337	0	
2021	5	31	19,660.64	19,044.52	437.934	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	335.003	115.679	0	
2021	6	1	19,924.12	19,044.52	378.405	0	0	0	0	0	0	0	0	0	84.776	0	0	0	0	0	333.159	83.26	0	
2021	6	2	19,908.10	19,044.52	492.906	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	287.873	82.802	0	
2021	6	3	20,079.16	19,044.52	588.113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	374.979	71.547	0	
2021	6	4	19,937.66	19,044.52	533.432	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	447.408	93.196	0	
2021	6	5	19,190.97	19,044.52	527.808	0	0	0	0	0	0	0	0	0	0	0	0	-898.36	0	0	405.81	111.197	0	
2021	6	6	19,090.39	19,044.52	508.224	0	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	401.532	100.858	0	
2021	6	7	19,542.82	19,044.52	284.361	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	386.633	99.795	0	
2021	6	8	19,501.59	19,044.52	144.653	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	216.328	96.092	0	
2021	6	9	19,355.31	19,044.52	146.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110.045	53.765	0	
2021	6	10	19,347.53	19,044.52	163.849	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111.815	27.35	0	
2021	6	11	19,183.98	19,044.52	167.921	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-180.897	124.649	27.79	0	
2021	6	12	18,566.09	19,044.52	188.087	0	0	0	0	0	0	0	0	0	73.114	0	-898.36	0	0	0	127.747	30.98	0	
2021	6	13	18,615.61	19,044.52	210.58	0	0	0	0	0	0	0	0	0	150.414	-964.744	0	0	0	0	143.088	31.75	0	
2021	6	14	19,274.84	19,044.52	307.048	0	0	0	0	0	0	0	0	0	0	0	0	0	-272.491	0	160.2	35.563	0	
2021	6	15	19,501.07	19,044.52	183.143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	233.588	39.815	0	
2021	6	16	19,356.89	19,044.52	114.985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139.326	58.055	0	
2021	6	17	19,302.45	19,044.52	135.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87.475	34.628	0	
2021	6	18	19,147.66	19,044.52	94.819	0	0	0	0	0	0	0	0	0	64.143	0	0	0	0	-180.897	103.333	21.741	0	
2021	6	19	18,481.00	19,044.52	37.424	0	0	0	0	0	0	0	0	0	199.605	0	-898.36	0	0	0	72.134	25.682	0	
2021	6	20	18,272.40	19,044.52	0	0	0	0	0	0	0	0	0	0	146.227	-964.744	0	0	0	0	28.47	17.928	0	
2021	6	21	18,919.60	19,044.52	65.734	0	0	0	0	0	0	0	0	0	74.758	0	0	-272.491	0	0	0	7.076	0	0
2021	6	22	19,101.40	19,044.52	0	0	0	0	0	0	0	0	0	0	6.878	0	0	0	0	0	50.007	0	0	0
2021	6	23	19,122.19	19,044.52	26.662	0	0	0	0	0	0	0	0	0	38.575	0	0	0	0	0	0	12.429	0	0
2021	6	24	19,109.12	19,044.52	35.388	0	0	0	0	0	0	0	0	0	8.932	0	0	0	0	0	20.283	0	0	0
2021	6	25	19,207.11	19,044.52	73.199	0	0	0	0	0	0	0	0	0	238.33	0	0	0	0	-180.897	26.921	5.041	0	0
2021	6	26	18,239.34	19,044.52	0	0	0	0	0	0	0	0	0	0	30.8	0	-898.36	0	0	0	55.686	6.691	0	0
2021	6	27	18,094.39	19,044.52	0.776	0	0	0	0	0	0	0	0	0	0	-964.744	0	0	0	0	0	13.84	0	0
2021	6	28	18,924.57	19,044.52	23.366	0	0	0	0	0	0	0	0	0	128.584	0	0	-272.491	0	0	0.59	0	0	0
2021	6	29	19,076.30	19,044.52	8.629	0	0	0	0	0	0	0	0	0	5.233	0	0	0	0	0	17.775	0.147	0	0
2021	6	30	19,359.92	19,044.52	0	0	0	0	0	0	0	0	0	0	304.416	0	0	0	0	0	6.564	4.418	0	0
2021	7	1	19,449.12	19,044.52	0	0	0	0	0	0	0	0	0	402.969	0	0	0	0	0	0	0	1.631	0	0
2021	7	2	19,049.27	19,044.52	0	0	0	0	0	0	0	0	0	185.645	0	0	0	0	0	-180.897	0	0	0	0
2021	7	3	18,351.84	19,044.52	0	0	0	0	0	0	0	0	0	205.677	0	0	0	-898.36	0	0	0	0	0	0
2021	7	4	19,305.92	19,044.52	0	0	0	0	0	0	0	0	0	1,226.14	0	0	-964.744	0	0	0	0	0	0	0
2021	7	5	20,069.68	19,044.52	0	0	0	0	0	0	0	0	0	1,297.65	0	0	0	0	-272.491	0	0	0	0	0
2021	7	6	20,147.44	19,044.52	0	0	0	0	0	0	0	0	0	1,102.92	0	0	0	0	0	0	0	0	0	0
2021	7	7	19,812.02	19,044.52	0	0	0	0	0	0	0	0	0	767.505	0	0	0	0	0	0	0	0	0	0
2021	7	8	19,630.80	19,044.52	0	0	0	0	0	0	0	0	0	586.285	0	0	0	0	0	0	0	0	0	0
2021	7	9	19,305.26	19,044.52	0	0	0	0	0	0	0	0	0	441.636	0	0	0	0	0	-180.897	0	0	0	0
2021	7	10	18,620.64	19,044.52	2.327	0	0	0	0	0	0	0	0	472.149	0	0	0	-898.36	0	0	0	0	0	0
2021	7	11	18,343.13	19,044.52	0	0	0	0	0	0	0	0	0	261.581	0	0	-964.744	0	0	0	1.77	0	0	0
2021	7	12	19,221.56	19,044.52	0	0	0	0	0	0	0	0	0	449.089	0	0	0	0	-272.491	0	0	0.44	0	0
2021	7	13	19,722.35	19,044.52	0	0	0	0	0	0	0	0	0	677.827	0	0	0	0	0	0	0	0	0	0
2021	7	14	19,574.67	19,044.52	0	0	0	0	0	0	0	0	0	530.149	0	0	0	0	0	0	0	0	0	0
2021	7	15	19,697.42	19,044.52	0	0	0	0	0	0	0	0	0	652.903	0	0	0	0	0	0	0	0	0	0
2021	7	16	19,797.91	19,044.52	0	0	0	0	0	0	0	0	0	934.283	0	0	0	0	0	-180.897	0	0	0	0
2021	7	17	18,386.54	19,044.52	0	0	0	0	0	0	0	0	0	240.384	0	0	0	-898.36	0	0	0	0	0	0
2021	7	18	18,970.27	19,044.52	0	0	0	0	0	0	0	0	0	890.492	0	0	-964.744	0	0	0	0	0	0	0

2021	7	19	19,541.16	19,044.52	0	0	0	0	0	0	0	0	0	769.135	0	0	0	0	-272.491	0	0	0	0
2021	7	20	20,093.17	19,044.52	0	0	0	0	0	0	0	0	0	1,048.65	0	0	0	0	0	0	0	0	0
2021	7	21	20,305.14	19,044.52	0	0	0	0	0	0	0	0	0	1,260.62	0	0	0	0	0	0	0	0	0
2021	7	22	19,849.29	19,044.52	0	0	0	0	0	0	0	0	0	804.774	0	0	0	0	0	0	0	0	0
2021	7	23	19,508.37	19,044.52	0	0	0	0	0	0	0	0	0	644.751	0	0	0	0	0	-180.897	0	0	0
2021	7	24	18,817.70	19,044.52	0	0	0	0	0	0	0	0	0	671.538	0	0	0	-898.36	0	0	0	0	0
2021	7	25	19,016.62	19,044.52	0	0	0	0	0	0	0	0	0	936.845	0	0	-964.744	0	0	0	0	0	0
2021	7	26	19,504.59	19,044.52	0	0	0	0	0	0	0	0	0	732.565	0	0	0	0	-272.491	0	0	0	0
2021	7	27	19,544.85	19,044.52	0	0	0	0	0	0	0	0	0	500.334	0	0	0	0	0	0	0	0	0
2021	7	28	19,690.43	19,044.52	0	0	0	0	0	0	0	0	0	645.915	0	0	0	0	0	0	0	0	0
2021	7	29	19,845.33	19,044.52	0	0	0	0	0	0	0	0	0	800.814	0	0	0	0	0	0	0	0	0
2021	7	30	19,819.10	19,044.52	0	0	0	0	0	0	0	0	0	955.479	0	0	0	0	0	-180.897	0	0	0
2021	7	31	19,643.67	19,044.52	0	0	0	0	0	0	0	0	0	1,497.51	0	0	0	-898.36	0	0	0	0	0
2021	8	1	19,442.75	19,044.52	0	0	0	0	0	0	0	0	1,362.97	0	0	0	-964.744	0	0	0	0	0	0
2021	8	2	19,800.98	19,044.52	0	0	0	0	0	0	0	0	1,028.95	0	0	0	0	0	-272.491	0	0	0	0
2021	8	3	19,936.23	19,044.52	0	0	0	0	0	0	0	0	891.714	0	0	0	0	0	0	0	0	0	0
2021	8	4	20,127.04	19,044.52	0	0	0	0	0	0	0	0	1,082.52	0	0	0	0	0	0	0	0	0	0
2021	8	5	19,989.11	19,044.52	0	0	0	0	0	0	0	0	944.587	0	0	0	0	0	0	0	0	0	0
2021	8	6	19,788.90	19,044.52	0	0	0	0	0	0	0	0	925.277	0	0	0	0	0	0	-180.897	0	0	0
2021	8	7	19,117.41	19,044.52	0	0	0	0	0	0	0	0	971.253	0	0	0	0	-898.36	0	0	0	0	0
2021	8	8	18,653.56	19,044.52	0	0	0	0	0	0	0	0	573.786	0	0	0	-964.744	0	0	0	0	0	0
2021	8	9	19,463.97	19,044.52	0	0	0	0	0	0	0	0	691.946	0	0	0	0	0	-272.491	0	0	0	0
2021	8	10	19,915.77	19,044.52	0	0	0	0	0	0	0	0	871.254	0	0	0	0	0	0	0	0	0	0
2021	8	11	19,682.67	19,044.52	0	0	0	0	0	0	0	0	638.154	0	0	0	0	0	0	0	0	0	0
2021	8	12	19,895.54	19,044.52	0	0	0	0	0	0	0	0	851.025	0	0	0	0	0	0	0	0	0	0
2021	8	13	19,513.96	19,044.52	0	0	0	0	0	0	0	0	650.337	0	0	0	0	0	0	-180.897	0	0	0
2021	8	14	19,129.37	19,044.52	0	0	0	0	0	0	0	0	983.207	0	0	0	0	-898.36	0	0	0	0	0
2021	8	15	18,767.35	19,044.52	0	0	0	0	0	0	0	0	687.578	0	0	0	-964.744	0	0	0	0	0	0
2021	8	16	19,511.79	19,044.52	0	0	0	0	0	0	0	0	739.762	0	0	0	0	0	-272.491	0	0	0	0
2021	8	17	19,587.27	19,044.52	0	0	0	0	0	0	0	0	542.752	0	0	0	0	0	0	0	0	0	0
2021	8	18	19,668.42	19,044.52	0	0	0	0	0	0	0	0	623.901	0	0	0	0	0	0	0	0	0	0
2021	8	19	19,914.19	19,044.52	0	0	0	0	0	0	0	0	869.675	0	0	0	0	0	0	0	0	0	0
2021	8	20	20,146.60	19,044.52	0	0	0	0	0	0	0	0	1,282.97	0	0	0	0	0	0	-180.897	0	0	0
2021	8	21	19,232.81	19,044.52	0	0	0	0	0	0	0	0	1,086.65	0	0	0	0	-898.36	0	0	0	0	0
2021	8	22	19,159.07	19,044.52	0	0	0	0	0	0	0	0	1,079.30	0	0	0	-964.744	0	0	0	0	0	0
2021	8	23	19,805.81	19,044.52	0	0	0	0	0	0	0	0	1,033.78	0	0	0	0	0	-272.491	0	0	0	0
2021	8	24	19,869.80	19,044.52	0	0	0	0	0	0	0	0	825.278	0	0	0	0	0	0	0	0	0	0
2021	8	25	19,655.55	19,044.52	0	0	0	0	0	0	0	0	611.027	0	0	0	0	0	0	0	0	0	0
2021	8	26	19,536.47	19,044.52	0	0	0	0	0	0	0	0	491.948	0	0	0	0	0	0	0	0	0	0
2021	8	27	19,657.18	19,044.52	0	0	0	0	0	0	0	0	793.554	0	0	0	0	0	0	-180.897	0	0	0
2021	8	28	18,942.93	19,044.52	0	0	0	0	0	0	0	0	796.772	0	0	0	0	-898.36	0	0	0	0	0
2021	8	29	18,691.26	19,044.52	0	0	0	0	0	0	0	0	611.487	0	0	0	-964.744	0	0	0	0	0	0
2021	8	30	19,522.36	19,044.52	0	0	0	0	0	0	0	0	750.336	0	0	0	0	0	-272.491	0	0	0	0
2021	8	31	19,527.96	19,044.52	0	0	0	0	0	0	0	0	483.443	0	0	0	0	0	0	0	0	0	0
2021	9	1	19,168.67	19,044.52	0	0	0	0	0	0	0	0	0	0	124.146	0	0	0	0	0	0	0	0
2021	9	2	19,118.37	19,044.52	25.305	0	0	0	0	0	0	0	0	0	48.549	0	0	0	0	0	0	0	0
2021	9	3	19,239.92	19,044.52	0	0	0	0	0	0	0	0	0	0	357.042	0	0	0	0	-180.897	19.251	0	0
2021	9	4	18,511.04	19,044.52	0	0	0	0	0	0	0	0	0	0	360.093	0	0	-898.36	0	0	0	4.784	0
2021	9	5	18,357.75	19,044.52	0	0	0	0	0	0	0	0	0	0	277.977	0	-964.744	0	0	0	0	0	0
2021	9	6	19,188.85	19,044.52	0	0	0	0	0	0	0	0	0	0	416.826	0	0	0	-272.491	0	0	0	0
2021	9	7	19,237.47	19,044.52	0	0	0	0	0	0	0	0	0	0	192.947	0	0	0	0	0	0	0	0
2021	9	8	19,300.11	19,044.52	0.776	0	0	0	0	0	0	0	0	0	254.812	0	0	0	0	0	0	0	0
2021	9	9	19,223.32	19,044.52	1.357	0	0	0	0	0	0	0	0	0	176.856	0	0	0	0	0	0.59	0	0
2021	9	10	19,099.50	19,044.52	0	0	0	0	0	0	0	0	0	0	234.699	0	0	0	0	-180.897	1.033	0.147	0

2021	12	28	30,890.22	19,044.52	3,224.83	-290.536	0	0	0	0	0	0	5,700.75	0	0	0	0	0	0	0	2,564.15	646.505	0
2021	12	29	31,166.19	19,044.52	3,353.39	-250.317	0	0	0	0	0	0	5,928.02	0	0	0	0	0	0	0	2,453.30	637.285	0
2021	12	30	32,211.89	19,044.52	3,739.16	-342.594	0	0	0	0	0	0	6,609.97	0	0	0	0	0	0	0	2,551.10	609.733	0
2021	12	31	32,676.35	19,044.52	3,906.84	-479.125	0	0	0	0	0	0	6,906.39	0	0	0	0	0	0	-180.897	2,844.58	634.04	0

Variable	Coefficient	StdErr	T-Stat	P-Value	Units	Definition
CONST	19044.52	56.624	336.331	0.00%		Constant term
Daily.HDD13	232.686	19.106	12.179	0.00%		
Daily.HDD0	-97.305	21.585	-4.508	0.00%		
Daily.JanHDD13	424.273	18.77	22.604	0.00%		
Daily.FebHDD13	403.966	18.717	21.582	0.00%		
Daily.MarHDD13	301.64	18.412	16.382	0.00%		
Daily.AprHDD13	180.936	19.128	9.459	0.00%		
Daily.OctHDD13	174.743	25.322	6.901	0.00%		
Daily.NovHDD13	349.301	19.086	18.301	0.00%		
Daily.DecHDD13	411.335	18.481	22.257	0.00%		
Daily.AugCDD18	551.718	37.037	14.896	0.00%		
Daily.JulCDD18	559.032	37.188	15.032	0.00%		
Daily.SepCDD18	332.906	103.163	3.227	0.13%		
Daily.JunCDD18	358.84	118.292	3.034	0.25%		
Daily.Sun	-964.744	76.652	-12.586	0.00%		
Daily.Sat	-898.36	76.893	-11.683	0.00%		
Daily.Mon	-272.491	76.293	-3.572	0.04%		
Daily.Fri	-180.897	76.76	-2.357	1.86%		
Daily.LagHDD13	177.016	10.146	17.446	0.00%		
Daily.Lag2HDD13	43.995	8.477	5.19	0.00%		

Model Statistics

Iterations	1
Adjusted Observation:	1092
Deg. of Freedom for E	1072
R-Squared	0.977
Adjusted R-Squared	0.976
AIC	13.446
BIC	13.538
F-Statistic	2351.015
Prob (F-Statistic)	0
Log-Likelihood	-8,871.01
Model Sum of Square:	30,315,512,952.91
Sum of Squared Errors:	727,529,713.65
Mean Squared Error	678,665.78
Std. Error of Regressio	823.81
Mean Abs. Dev. (MAD	635.62
Mean Abs. % Err. (MA	2.67%
Durbin-Watson Statist	1.099
Durbin-H Statistic	#NA
Ljung-Box Statistic	444.68
Prob (Ljung-Box)	0
Skewness	0.193
Kurtosis	3.862
Jarque-Bera	40.582
Prob (Jarque-Bera)	0

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Variable Coefficients Month HDD13 HDD 13 HDD0 lag1 lag2
 403.966 232.686 -97.305 177.016 43.995

Summary
 Feb 2021 heating load 344558 MWh
 Normal heating load 367348 MWh
 2021 Varinace to Normal -22790 MWh

February-21								
Day	Actual HDD 0	Actual HDD 13	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Total Heating Load (MWh)
-2	5.5	18.5						
-1	4.8	17.8						
1	2.2	15.2	6147	3541	-216	3159	813	13444
2	0.0	10.5	4225	2434	0	2694	785	10137
3	0.0	6.4	2594	1494	0	1851	669	6609
4	0.0	10.5	4260	2454	0	1137	460	8311
5	0.0	11.1	4477	2579	0	1867	282	9205
6	0.0	8.3	3368	1940	0	1962	464	7734
7	1.4	14.4	5824	3355	-138	1476	488	11004
8	2.2	15.2	6159	3547	-219	2552	367	12407
9	6.1	19.1	7724	4449	-596	2699	634	14911
10	7.3	20.3	8184	4714	-706	3385	671	16247
11	7.5	20.5	8273	4765	-728	3586	841	16738
12	7.2	20.2	8145	4692	-697	3625	891	16656
13	4.5	17.5	7059	4066	-435	3569	901	15160
14	4.0	17.0	6867	3956	-389	3093	887	14414
15	2.1	15.1	6090	3508	-202	3009	769	13174
16	0.0	12.1	4903	2824	0	2669	748	11144
17	0.0	12.9	5228	3011	0	2149	663	11051
18	5.8	18.8	7601	4378	-566	2291	534	14239
19	4.4	17.4	7031	4050	-429	3331	569	14552
20	5.0	18.0	7270	4187	-486	3081	828	14880
21	4.6	17.6	7101	4090	-446	3186	766	14697
22	2.0	15.0	6046	3483	-191	3112	792	13241
23	0.0	10.0	4056	2337	0	2649	773	9816
24	0.0	10.4	4216	2429	0	1778	658	9081
25	0.0	10.4	4215	2428	0	1848	442	8932
26	6.3	19.3	7805	4496	-615	1847	459	13992
27	2.3	15.3	6181	3560	-224	3420	459	13396
28	0.0	9.2	3700	2131	0	2708	850	9389
29			0	0	0	1621	673	2294

		February Normal							Total Heating Load (MWh)
Month	Day	HDD0	HDD13	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	
	1	30	3.2	16.0					
	1	31	3.1	15.0					
	2	1	3.2	15.6	6282	3618	-308	2646	702
	2	2	4.0	16.3	6589	3795	-385	2753	658
	2	3	5.0	17.9	7219	4158	-483	2887	684
	2	4	3.4	15.4	6221	3583	-331	3163	718
	2	5	3.0	14.7	5926	3414	-294	2726	786
	2	6	4.3	17.2	6944	4000	-422	2597	678
	2	7	4.0	16.5	6674	3844	-391	3043	645
	2	8	4.4	16.9	6835	3937	-424	2924	756
	2	9	5.2	18.2	7364	4242	-509	2995	727
	2	10	4.4	17.2	6940	3998	-432	3227	744
	2	11	5.2	17.4	7017	4042	-509	3041	802
	2	12	4.9	17.1	6888	3967	-473	3075	756
	2	13	4.9	17.6	7094	4086	-473	3018	764
	2	14	4.5	16.9	6815	3925	-435	3108	750
	2	15	3.8	16.3	6568	3783	-370	2986	773
	2	16	2.4	14.1	5688	3276	-230	2878	742
	2	17	2.6	14.4	5813	3348	-255	2492	715
	2	18	2.8	15.6	6310	3635	-275	2547	619
	2	19	1.6	13.6	5498	3167	-151	2765	633
	2	20	2.7	14.9	6023	3469	-266	2409	687
	2	21	3.2	15.1	6092	3509	-307	2639	599
	2	22	1.3	13.2	5316	3062	-125	2669	656
	2	23	2.8	14.8	5995	3453	-273	2330	663
	2	24	2.7	14.2	5720	3295	-260	2627	579
	2	25	1.2	12.1	4872	2806	-116	2507	653
	2	26	2.8	14.4	5829	3358	-275	2135	623
	2	27	4.3	17.1	6896	3972	-421	2554	531
	2	28	2.9	15.1	6096	3511	-278	3022	635
	2	29	3.2	15.2	6148	3541	-314	2671	751

Variable Coefficients	Month HDD13	HDD 13	HDD0	lag1	lag2	
	301.64	232.686		-97.305	177.016	43.995

Summary
 Mar 2021 heating load
 Normal heating load
 2021 Varinace to Normal

282880 MWh
 304810 MWh
 -21930 MWh

Day	March-21								Month	Day	March Normal							Total Heating Load (MWh)	
	Actual HDD 0	Actual HDD 13	Load from Mar HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Total Heating Load (MWh)			HDD0	HDD13	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2		
-2		2.3	15.3							2	27	4.3	17.1						
-1		0.0	9.2							2	28	2.9	15.1						
1		0.0	11.8	3561	2747	0	1621	673	8602	3	1	2.4	14.6	4389	3386	-235	2671	751	10962
2		6.7	19.7	5954	4593	-656	2090	403	12383	3	2	1.1	12.9	3894	3004	-106	2576	664	10032
3		3.0	16.0	4834	3729	-294	3494	519	12281	3	3	3.4	15.3	4624	3567	-334	2285	640	10783
4		0.1	13.1	3945	3043	-8	2837	868	10686	3	4	3.9	15.7	4724	3644	-380	2714	568	11269
5		5.1	18.1	5445	4200	-491	2315	705	12173	3	5	2.7	15.0	4528	3493	-265	2772	674	11202
6		3.8	16.8	5057	3901	-367	3195	575	12363	3	6	3.8	16.0	4823	3721	-366	2657	689	11524
7		1.4	14.4	4329	3339	-131	2968	794	11298	3	7	2.9	15.2	4579	3532	-285	2830	660	11317
8		2.6	15.6	4717	3639	-257	2540	738	11377	3	8	1.1	12.2	3680	2839	-102	2687	703	9807
9		0.8	13.8	4164	3212	-78	2768	631	10697	3	9	0.9	12.8	3846	2967	-84	2160	668	9556
10		0.0	11.8	3557	2744	0	2444	688	9432	3	10	1.6	14.0	4208	3246	-154	2257	537	10094
11		0.0	9.3	2799	2159	0	2087	607	7653	3	11	1.5	13.0	3912	3018	-145	2469	561	9816
12		0.0	3.8	1154	890	0	1643	519	4205	3	12	1.6	12.9	3891	3002	-159	2296	614	9644
13		0.0	10.9	3293	2540	0	677	408	6918	3	13	1.4	12.4	3728	2876	-136	2284	571	9322
14		2.7	15.7	4724	3644	-259	1932	168	10211	3	14	1.7	13.4	4045	3120	-168	2188	568	9752
15		8.8	21.8	6569	5068	-854	2773	480	14036	3	15	0.6	12.7	3840	2962	-62	2374	544	9657
16		9.1	22.1	6670	5145	-887	3855	689	15473	3	16	1.1	12.8	3852	2971	-106	2253	590	9561
17		1.5	14.5	4379	3378	-148	3914	958	12481	3	17	2.3	14.3	4304	3320	-226	2260	560	10220
18		0.0	9.7	2936	2265	0	2570	973	8743	3	18	2.5	14.2	4268	3293	-244	2526	562	10404
19		4.5	17.5	5290	4081	-442	1723	639	11291	3	19	2.6	14.7	4431	3418	-255	2505	628	10727
20		1.4	14.4	4350	3356	-138	3104	428	11100	3	20	1.2	12.6	3798	2930	-115	2600	623	9835
21		0.0	7.5	2264	1746	0	2553	732	7334	3	21	0.3	10.8	3270	2522	-28	2229	646	8639
22		0.0	5.0	1517	1170	0	1328	674	4650	3	22	0.8	11.7	3514	2711	-82	1919	554	8616
23		0.0	6.9	2070	1597	0	890	330	4887	3	23	2.0	13.3	4021	3102	-192	2062	477	9470
24		0.0	7.3	2202	1699	0	1215	221	5337	3	24	2.0	14.1	4253	3281	-195	2360	513	10212
25		0.0	9.2	2771	2138	0	1292	302	6503	3	25	0.8	12.7	3816	2943	-75	2496	586	9767
26		0.0	6.8	2049	1580	0	1626	321	5576	3	26	0.7	13.0	3915	3020	-72	2239	620	9723
27		0.0	10.7	3216	2481	0	1202	404	7304	3	27	1.2	13.2	3982	3071	-118	2298	557	9790
28		0.0	12.8	3862	2979	0	1887	299	9028	3	28	0.3	11.5	3475	2681	-26	2337	571	9037
29		0.0	6.7	2018	1557	0	2267	469	6311	3	29	0.4	10.5	3164	2441	-35	2039	581	8190
30		0.0	10.0	3001	2315	0	1185	563	7064	3	30	0.3	10.9	3297	2543	-30	1857	507	8174
31		0.0	6.4	1934	1492	0	1761	294	5482	3	31	0.0	10.0	3001	2315	-3	1935	462	7710

Variable Coefficients	Month HDD13	HDD 13	HDD0	lag1	lag2	
	180.936	232.686		-97.305	177.016	43.995

Summary

Apr 2021 heating load	120947 MWh
Normal heating load	161906 MWh
2021 Varinace to Normal	-40959 MWh

April-21								
Day	Actual HDD 0	Actual HDD 13	Load from Month HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Total Heating Load (MWh)
-2	0.0	9.95						
-1	0.0	6.41						
1	0.0	5.65	1022	1315	0	1135	438	3910
2	0.0	8.13	1470	1891	0	1000	282	4643
3	0.0	11.06	2001	2573	0	1438	249	6261
4	0.0	11.03	1996	2567	0	1958	357	6879
5	0.0	7.97	1442	1855	0	1953	487	5736
6	0.0	6.09	1102	1417	0	1411	485	4416
7	0.0	4.85	877	1128	0	1078	351	3433
8	0.0	3.36	608	782	0	858	268	2516
9	0.0	3.20	578	744	0	595	213	2130
10	0.0	5.28	956	1229	0	566	148	2899
11	0.0	8.64	1563	2010	0	935	141	4648
12	0.0	7.08	1281	1647	0	1529	232	4690
13	0.0	7.83	1417	1823	0	1253	380	4873
14	0.0	6.88	1244	1600	0	1387	311	4542
15	0.0	9.46	1711	2201	0	1217	345	5474
16	0.0	10.83	1959	2520	0	1674	302	6456
17	0.0	9.44	1708	2196	0	1917	416	6237
18	0.0	8.77	1587	2041	0	1671	476	5775
19	0.0	3.82	691	888	0	1553	415	3546
20	0.0	3.43	620	798	0	676	386	2480
21	0.0	3.91	708	911	0	607	168	2393
22	0.0	7.10	1285	1653	0	693	151	3782
23	0.0	7.96	1440	1852	0	1258	172	4721
24	0.0	1.93	348	448	0	1409	313	2518
25	0.0	5.92	1071	1378	0	341	350	3140
26	0.0	3.63	657	844	0	1048	85	2634
27	0.0	6.39	1156	1486	0	642	260	3545
28	0.0	1.55	280	360	0	1131	160	1930
29	0.0	4.08	737	948	0	274	281	2240
30	0.0	4.14	749	963	0	721	68	2501

		April Normal							Total Heating Load (MWh)	
Month	Day	HDD0	HDD13	Load from Feb	Load From	Load From	Load	Load		
				HDD13	HDD 13	HDD0	From lag1	from lag2		
	3	30	0.3	10.9						
	3	31	0.0	10.0						
	4	1	0.1	10.1	1827	2350	-10	1761	481	6410
	4	2	0.1	10.3	1871	2406	-6	1788	438	6497
	4	3	0.0	10.5	1896	2439	-3	1830	444	6607
	4	4	0.4	10.6	1923	2473	-35	1855	455	6672
	4	5	0.6	11.2	2030	2611	-57	1882	461	6926
	4	6	0.6	11.1	2001	2574	-62	1986	468	6966
	4	7	0.0	9.7	1762	2266	-3	1958	494	6477
	4	8	0.2	10.3	1871	2406	-19	1724	487	6468
	4	9	0.5	10.6	1922	2471	-46	1830	429	6606
	4	10	0.0	10.3	1862	2394	-4	1880	455	6587
	4	11	0.0	8.1	1464	1882	0	1821	467	5635
	4	12	0.0	7.3	1312	1687	0	1432	453	4884
	4	13	0.0	7.7	1388	1785	0	1283	356	4812
	4	14	0.0	6.2	1113	1431	0	1358	319	4220
	4	15	0.1	7.8	1419	1824	-9	1089	337	4660
	4	16	0.1	9.3	1674	2152	-5	1388	271	5480
	4	17	0.0	8.4	1520	1955	0	1637	345	5457
	4	18	0.0	8.5	1542	1982	0	1487	407	5418
	4	19	0.1	9.0	1621	2085	-12	1508	370	5572
	4	20	0.0	7.8	1411	1815	0	1586	375	5187
	4	21	0.0	7.1	1283	1650	0	1381	394	4707
	4	22	0.0	6.6	1196	1538	0	1255	343	4332
	4	23	0.0	7.9	1437	1848	0	1170	312	4766
	4	24	0.0	6.7	1203	1547	0	1406	291	4447
	4	25	0.0	7.0	1274	1638	0	1177	349	4438
	4	26	0.0	6.9	1256	1615	0	1246	293	4409
	4	27	0.0	6.9	1243	1599	0	1228	310	4380
	4	28	0.0	6.9	1252	1610	0	1216	305	4384
	4	29	0.0	6.1	1111	1429	0	1225	302	4067
	4	30	0.0	7.4	1332	1713	0	1087	304	4436

Variable Coefficients	Month HDD13	HDD 13	HDD0	lag1	lag2
	0	232.686	-97.305	177.016	43.995

Summary	
May 2021 heating load	50551 MWh
Normal heating load	54000 MWh
2021 Varinace to Normal	-3449 MWh

		May-21							
Day	Actual HDD 0	Actual HDD 13	Load from Month HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Total Heating Load (MWh)	
-2	0.0	4.08							
-1	0.0	4.14							
1	0.0	5.13	0	1193	0	732	179	2105	
2	0.0	5.17	0	1203	0	908	182	2293	
3	0.0	2.40	0	558	0	915	226	1699	
4	0.0	3.78	0	878	0	425	227	1531	
5	0.0	6.29	0	1463	0	668	106	2237	
6	0.0	6.25	0	1454	0	1113	166	2733	
7	0.0	4.50	0	1048	0	1106	277	2431	
8	0.0	9.00	0	2093	0	797	275	3165	
9	0.0	4.98	0	1158	0	1592	198	2948	
10	0.0	4.15	0	967	0	881	396	2243	
11	0.0	2.94	0	684	0	735	219	1639	
12	0.0	5.22	0	1214	0	521	183	1917	
13	0.0	2.70	0	629	0	923	129	1682	
14	0.0	1.64	0	382	0	479	230	1090	
15	0.0	3.85	0	897	0	291	119	1306	
16	0.0	2.05	0	477	0	682	72	1231	
17	0.0	3.10	0	721	0	363	170	1254	
18	0.0	0.87	0	202	0	549	90	841	
19	0.0	1.73	0	401	0	153	136	691	
20	0.0	3.42	0	796	0	305	38	1139	
21	0.0	3.25	0	756	0	606	76	1438	
22	0.0	2.10	0	490	0	575	150	1215	
23	0.0	0.53	0	123	0	372	143	639	
24	0.0	4.06	0	944	0	94	93	1131	
25	0.0	2.79	0	649	0	718	23	1390	
26	0.0	0.00	0	0	0	493	179	672	
27	0.0	0.00	0	0	0	0	123	123	
28	0.0	3.58	0	833	0	0	0	833	
29	0.0	6.88	0	1600	0	634	0	2233	
30	0.0	5.38	0	1251	0	1217	157	2625	
31	0.0	3.53	0	821	0	951	302	2075	

May Normal									
Month	Day	HDD0	HDD13	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Total Heating Load (MWh)
4	29	0.0	6.1						
4	30	0.0	7.4						
5	1	0.0	6.9	0	1596	0	1303	270	3169
5	2	0.0	5.4	0	1257	0	1214	324	2795
5	3	0.0	4.2	0	987	0	956	302	2244
5	4	0.0	5.8	0	1350	0	751	238	2338
5	5	0.0	4.8	0	1122	0	1027	187	2335
5	6	0.0	3.9	0	917	0	853	255	2025
5	7	0.0	4.5	0	1038	0	697	212	1947
5	8	0.0	4.8	0	1115	0	789	173	2077
5	9	0.0	5.4	0	1259	0	848	196	2303
5	10	0.0	4.7	0	1096	0	958	211	2264
5	11	0.0	3.1	0	717	0	834	238	1788
5	12	0.0	4.6	0	1070	0	545	207	1823
5	13	0.0	4.5	0	1049	0	814	136	1999
5	14	0.0	4.5	0	1035	0	798	202	2036
5	15	0.0	3.8	0	875	0	788	198	1861
5	16	0.0	4.1	0	959	0	666	196	1820
5	17	0.0	2.6	0	598	0	729	165	1493
5	18	0.0	3.0	0	703	0	455	181	1339
5	19	0.0	3.3	0	766	0	535	113	1413
5	20	0.0	3.1	0	721	0	582	133	1437
5	21	0.0	2.0	0	468	0	549	145	1161
5	22	0.0	3.0	0	700	0	356	136	1193
5	23	0.0	3.5	0	821	0	533	88	1443
5	24	0.0	3.4	0	789	0	625	132	1546
5	25	0.0	2.4	0	565	0	600	155	1321
5	26	0.0	2.7	0	628	0	430	149	1208
5	27	0.0	3.1	0	717	0	478	107	1302
5	28	0.0	2.5	0	572	0	545	119	1236
5	29	0.0	2.6	0	612	0	435	136	1183
5	30	0.0	1.9	0	440	0	466	108	1014
5	31	0.0	1.9	0	437	0	335	116	888

Variable Coefficients

Month HDD13	HDD 13	HDD0	lag1	lag2	CDD18
0	232.686	-97.305			358.84

Summary

Jun 2021 heating load	7323 MWh
Normal heating load	6995 MWh
2021 Varinace to Normal	328 MWh

June-21										Total Heating Load (MWh)
Day	Actual HDD 0	Actual HDD 13	Actual CDD 18	Load from Month HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Load from CDD18	
-2	0.0	5.38								
-1	0.0	3.53								
1	0.0	0.10	0.00	0	24	0	0	0	0	24
2	0.0	0.00	0.00	0	0	0	0	0	0	0
3	0.0	0.00	0.00	0	0	0	0	0	0	0
4	0.0	0.00	0.00	0	0	0	0	0	0	0
5	0.0	0.00	0.00	0	0	0	0	0	0	0
6	0.0	0.00	0.79	0	0	0	0	0	282.5865	283
7	0.0	0.00	0.21	0	0	0	0	0	76.2535	76
8	0.0	0.00	3.90	0	0	0	0	0	1397.981	1398
9	0.0	0.00	2.41	0	0	0	0	0	864.2063	864
10	0.0	0.08	0.00	0	19	0	0	0	0	19
11	0.0	2.78	0.00	0	648	0	0	0	0	648
12	0.0	2.18	0.00	0	506	0	0	0	0	506
13	0.0	0.00	0.00	0	0	0	0	0	0	0
14	0.0	2.50	0.00	0	583	0	0	0	0	583
15	0.0	0.09	0.00	0	21	0	0	0	0	21
16	0.0	0.00	0.00	0	0	0	0	0	0	0
17	0.0	0.00	0.00	0	0	0	0	0	0	0
18	0.0	0.00	0.00	0	0	0	0	0	0	0
19	0.0	0.00	0.00	0	0	0	0	0	0	0
20	0.0	0.00	1.28	0	0	0	0	0	460.5113	461
21	0.0	0.00	1.33	0	0	0	0	0	476.9582	477
22	0.0	0.00	0.00	0	0	0	0	0	0	0
23	0.0	0.00	0.00	0	0	0	0	0	0	0
24	0.0	0.00	0.00	0	0	0	0	0	0	0
25	0.0	0.00	0.00	0	0	0	0	0	0	0
26	0.0	0.00	0.00	0	0	0	0	0	0	0
27	0.0	0.00	0.86	0	0	0	0	0	308.0043	308
28	0.0	0.00	4.61	0	0	0	0	0	1655.15	1655
29	0.0	0.00	0.00	0	0	0	0	0	0	0
30	0.0	0.00	0.00	0	0	0	0	0	0	0

		June Normal									Total Heating Load (MWh)
Month	Day	HDD0	HDD13	Actual CDD18	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Load from CDD18	
5	30	0.0	1.9	0.0							
5	31	0.0	1.9	0.3							
6	1	0.0	1.6	0.2	0	379	0	0	0	86	
6	2	0.0	2.1	0.0	0	493	0	0	0	0	
6	3	0.0	2.5	0.0	0	589	0	0	0	0	
6	4	0.0	2.3	0.0	0	533	0	0	0	0	
6	5	0.0	2.3	0.0	0	528	0	0	0	0	
6	6	0.0	2.2	0.0	0	507	0	0	0	0	
6	7	0.0	1.2	0.0	0	284	0	0	0	0	
6	8	0.0	0.6	0.0	0	144	0	0	0	0	
6	9	0.0	0.6	0.0	0	147	0	0	0	0	
6	10	0.0	0.7	0.0	0	163	0	0	0	0	
6	11	0.0	0.7	0.0	0	168	0	0	0	0	
6	12	0.0	0.8	0.2	0	188	0	0	0	72	
6	13	0.0	0.9	0.4	0	212	0	0	0	151	
6	14	0.0	1.3	0.0	0	307	0	0	0	0	
6	15	0.0	0.8	0.0	0	184	0	0	0	0	
6	16	0.0	0.5	0.0	0	114	0	0	0	0	
6	17	0.0	0.6	0.0	0	135	0	0	0	0	
6	18	0.0	0.4	0.2	0	95	0	0	0	65	
6	19	0.0	0.2	0.6	0	37	0	0	0	201	
6	20	0.0	0.0	0.4	0	0	0	0	0	147	
6	21	0.0	0.3	0.2	0	65	0	0	0	75	
6	22	0.0	0.0	0.0	0	0	0	0	0	7	
6	23	0.0	0.1	0.1	0	26	0	0	0	39	
6	24	0.0	0.2	0.0	0	35	0	0	0	7	
6	25	0.0	0.3	0.7	0	72	0	0	0	237	
6	26	0.0	0.0	0.1	0	0	0	0	0	32	
6	27	0.0	0.0	0.0	0	0	0	0	0	0	
6	28	0.0	0.1	0.4	0	23	0	0	0	129	
6	29	0.0	0.0	0.0	0	9	0	0	0	4	
6	30	0.0	0.0	0.9	0	0	0	0	0	305	

Variable Coefficients

Month HDD13	HDD 13	HDD0	lag1	lag2	CDD18
0	232.686	-97.305			559.032

Summary

Jul 2021 heating load	12226 MWh
Normal heating load	22598 MWh
2021 Varinace to Normal	-10373 MWh

		July-21									
Day		Actual HDD 0	Actual HDD 13	Actual CDD18	Load from Month HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Load from CDD18	Total Heating Load (MWh)
-2		0.0	0.00	0.00							
-1		0.0	0.00	0.00							
1		0.0	0.00	2.62	0	0	0	0	0	1463	1463
2		0.0	0.00	0.00	0	0	0	0	0	0	0
3		0.0	0.24	0.00	0	55	0	0	0	0	55
4		0.0	0.00	0.00	0	0	0	0	0	0	0
5		0.0	0.00	0.00	0	0	0	0	0	0	0
6		0.0	0.00	0.00	0	0	0	0	0	0	0
7		0.0	0.00	2.51	0	0	0	0	0	1402	1402
8		0.0	0.00	0.00	0	0	0	0	0	0	0
9		0.0	0.00	0.00	0	0	0	0	0	0	0
10		0.0	0.00	1.68	0	0	0	0	0	936	936
11		0.0	0.00	0.46	0	0	0	0	0	256	256
12		0.0	0.00	2.11	0	0	0	0	0	1181	1181
13		0.0	0.00	0.00	0	0	0	0	0	0	0
14		0.0	0.00	0.00	0	0	0	0	0	0	0
15		0.0	0.00	0.11	0	0	0	0	0	63	63
16		0.0	0.00	1.30	0	0	0	0	0	729	729
17		0.0	0.00	2.49	0	0	0	0	0	1391	1391
18		0.0	0.00	2.95	0	0	0	0	0	1649	1649
19		0.0	0.00	1.53	0	0	0	0	0	855	855
20		0.0	0.00	1.19	0	0	0	0	0	664	664
21		0.0	0.00	0.68	0	0	0	0	0	377	377
22		0.0	0.00	0.07	0	0	0	0	0	40	40
23		0.0	0.00	0.00	0	0	0	0	0	0	0
24		0.0	0.00	0.00	0	0	0	0	0	0	0
25		0.0	0.00	0.44	0	0	0	0	0	247	247
26		0.0	0.00	0.85	0	0	0	0	0	478	478
27		0.0	0.00	0.79	0	0	0	0	0	440	440
28		0.0	0.00	0.00	0	0	0	0	0	0	0
29		0.0	0.00	0.00	0	0	0	0	0	0	0
30		0.0	0.00	0.00	0	0	0	0	0	0	0
31		0.0	0.00	0.00	0	0	0	0	0	0	0

		July Normal									Total Heating Load (MWh)
Month	Day	HDD0	HDD13	Actual CDD 18	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Load from CDD18	
6	29	0.0	0.0	0.0							
6	30	0.0	0.0	0.9							
7	1	0.0	0.0	0.7	0	0	0	0	0	403	403
7	2	0.0	0.0	0.3	0	0	0	0	0	184	184
7	3	0.0	0.0	0.4	0	0	0	0	0	207	207
7	4	0.0	0.0	2.2	0	0	0	0	0	1224	1224
7	5	0.0	0.0	2.3	0	0	0	0	0	1297	1297
7	6	0.0	0.0	2.0	0	0	0	0	0	1101	1101
7	7	0.0	0.0	1.4	0	0	0	0	0	766	766
7	8	0.0	0.0	1.1	0	0	0	0	0	587	587
7	9	0.0	0.0	0.8	0	0	0	0	0	442	442
7	10	0.0	0.0	0.8	0	2	0	0	0	470	472
7	11	0.0	0.0	0.5	0	0	0	0	0	263	263
7	12	0.0	0.0	0.8	0	0	0	0	0	447	447
7	13	0.0	0.0	1.2	0	0	0	0	0	676	676
7	14	0.0	0.0	1.0	0	0	0	0	0	531	531
7	15	0.0	0.0	1.2	0	0	0	0	0	654	654
7	16	0.0	0.0	1.7	0	0	0	0	0	934	934
7	17	0.0	0.0	0.4	0	0	0	0	0	240	240
7	18	0.0	0.0	1.6	0	0	0	0	0	889	889
7	19	0.0	0.0	1.4	0	0	0	0	0	771	771
7	20	0.0	0.0	1.9	0	0	0	0	0	1051	1051
7	21	0.0	0.0	2.3	0	0	0	0	0	1263	1263
7	22	0.0	0.0	1.4	0	0	0	0	0	805	805
7	23	0.0	0.0	1.2	0	0	0	0	0	643	643
7	24	0.0	0.0	1.2	0	0	0	0	0	671	671
7	25	0.0	0.0	1.7	0	0	0	0	0	939	939
7	26	0.0	0.0	1.3	0	0	0	0	0	732	732
7	27	0.0	0.0	0.9	0	0	0	0	0	503	503
7	28	0.0	0.0	1.2	0	0	0	0	0	648	648
7	29	0.0	0.0	1.4	0	0	0	0	0	799	799
7	30	0.0	0.0	1.7	0	0	0	0	0	956	956
7	31	0.0	0.0	2.7	0	0	0	0	0	1498	1498

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

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Variable Coefficients

Month HDD13	HDD 13	HDD0	lag1	lag2	CDD18
0	232.686	-97.305			551.718

Summary

Aug 2021 heating load	32073 MWh
Normal heating load	25787 MWh
2021 Varinace to Normal	6286 MWh

August-21										
Day	Actual HDD 0	Actual HDD 13	Actual CDD18	Load from Month HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Load from CDD18	Total Heating Load (MWh)
-2	0.0	0.00	0.00							
-1	0.0	0.00	0.00							
1	0.0	0.00	0.00	0	0	0	0	0	0	0
2	0.0	0.00	0.00	0	0	0	0	0	0	0
3	0.0	0.00	0.00	0	0	0	0	0	0	0
4	0.0	0.00	0.81	0	0	0	0	0	448	448
5	0.0	0.00	0.77	0	0	0	0	0	425	425
6	0.0	0.00	1.70	0	0	0	0	0	938	938
7	0.0	0.00	0.60	0	0	0	0	0	331	331
8	0.0	0.00	2.09	0	0	0	0	0	1154	1154
9	0.0	0.00	0.00	0	0	0	0	0	0	0
10	0.0	0.00	0.58	0	0	0	0	0	320	320
11	0.0	0.00	2.13	0	0	0	0	0	1177	1177
12	0.0	0.00	2.43	0	0	0	0	0	1338	1338
13	0.0	0.00	3.08	0	0	0	0	0	1697	1697
14	0.0	0.00	2.01	0	0	0	0	0	1108	1108
15	0.0	0.00	4.84	0	0	0	0	0	2671	2671
16	0.0	0.00	2.34	0	0	0	0	0	1290	1290
17	0.0	0.00	1.51	0	0	0	0	0	834	834
18	0.0	0.00	1.23	0	0	0	0	0	676	676
19	0.0	0.00	2.78	0	0	0	0	0	1533	1533
20	0.0	0.00	2.70	0	0	0	0	0	1487	1487
21	0.0	0.00	2.69	0	0	0	0	0	1483	1483
22	0.0	0.00	1.03	0	0	0	0	0	568	568
23	0.0	0.00	1.72	0	0	0	0	0	949	949
24	0.0	0.00	4.18	0	0	0	0	0	2303	2303
25	0.0	0.00	5.44	0	0	0	0	0	3002	3002
26	0.0	0.00	3.83	0	0	0	0	0	2110	2110
27	0.0	0.00	4.43	0	0	0	0	0	2446	2446
28	0.0	0.00	0.00	0	0	0	0	0	0	0
29	0.0	0.00	0.00	0	0	0	0	0	0	0
30	0.0	0.00	0.00	0	0	0	0	0	0	0
31	0.0	0.00	3.23	0	0	0	0	0	1784	1784

August Normal										Total Heating Load (MWh)
Month	Day	HDD0	HDD13	Actual CDD 18	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Load from CDD18
7	30	0.0	0.0	1.7						
7	31	0.0	0.0	2.7						
8	1	0.0	0.0	2.5	0	0	0	0	0	1363
8	2	0.0	0.0	1.9	0	0	0	0	0	1032
8	3	0.0	0.0	1.6	0	0	0	0	0	894
8	4	0.0	0.0	2.0	0	0	0	0	0	1081
8	5	0.0	0.0	1.7	0	0	0	0	0	943
8	6	0.0	0.0	1.7	0	0	0	0	0	927
8	7	0.0	0.0	1.8	0	0	0	0	0	971
8	8	0.0	0.0	1.0	0	0	0	0	0	574
8	9	0.0	0.0	1.3	0	0	0	0	0	690
8	10	0.0	0.0	1.6	0	0	0	0	0	872
8	11	0.0	0.0	1.2	0	0	0	0	0	640
8	12	0.0	0.0	1.5	0	0	0	0	0	850
8	13	0.0	0.0	1.2	0	0	0	0	0	651
8	14	0.0	0.0	1.8	0	0	0	0	0	982
8	15	0.0	0.0	1.3	0	0	0	0	0	690
8	16	0.0	0.0	1.3	0	0	0	0	0	739
8	17	0.0	0.0	1.0	0	0	0	0	0	541
8	18	0.0	0.0	1.1	0	0	0	0	0	623
8	19	0.0	0.0	1.6	0	0	0	0	0	872
8	20	0.0	0.0	2.3	0	0	0	0	0	1286
8	21	0.0	0.0	2.0	0	0	0	0	0	1087
8	22	0.0	0.0	2.0	0	0	0	0	0	1081
8	23	0.0	0.0	1.9	0	0	0	0	0	1032
8	24	0.0	0.0	1.5	0	0	0	0	0	828
8	25	0.0	0.0	1.1	0	0	0	0	0	612
8	26	0.0	0.0	0.9	0	0	0	0	0	491
8	27	0.0	0.0	1.4	0	0	0	0	0	794
8	28	0.0	0.0	1.4	0	0	0	0	0	794
8	29	0.0	0.0	1.1	0	0	0	0	0	612
8	30	0.0	0.0	1.4	0	0	0	0	0	750
8	31	0.0	0.0	0.9	0	0	0	0	0	486

Variable Coefficients	Month HDD13	HDD 13	HDD0	lag1	lag2	CDD 18
	0	232.686		-97.305		332.906

Summary
 Sep 2021 heating load 3294 MWh
 Normal heating load 6039 MWh
 2021 Varinace to Normal -2745 MWh

September-21										
Day	Actual HDD 0	Actual HDD 13	Actual CDD 18	Load from Month HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Load from Cooling	Total Weather related Load (MWh)
-2	0.00	0.00		0.00						
-1	0.00	0.00		3.23						
1	0.00	0.00		2.37	0	0	0	0	788	788
2	0.00	0.00		0.25	0	0	0	0	83	83
3	0.00	0.00		0.00	0	0	0	0	0	0
4	0.00	0.00		0.00	0	0	0	0	0	0
5	0.00	0.00		0.00	0	0	0	0	0	0
6	0.00	0.00		0.00	0	0	0	0	0	0
7	0.00	0.00		0.20	0	0	0	0	65	65
8	0.00	0.00		0.00	0	0	0	0	0	0
9	0.00	0.00		0.47	0	0	0	0	155	155
10	0.00	0.00		1.41	0	0	0	0	469	469
11	0.00	0.00		0.00	0	0	0	0	0	0
12	0.00	0.00		0.00	0	0	0	0	0	0
13	0.00	0.00		0.00	0	0	0	0	0	0
14	0.00	0.00		0.00	0	0	0	0	0	0
15	0.00	0.00		0.00	0	0	0	0	0	0
16	0.00	0.00		1.26	0	0	0	0	420	420
17	0.00	0.00		0.00	0	0	0	0	0	0
18	0.00	0.00		1.49	0	0	0	0	497	497
19	0.00	0.00		0.00	0	0	0	0	0	0
20	0.00	0.00		0.00	0	0	0	0	0	0
21	0.00	0.00		0.00	0	0	0	0	0	0
22	0.00	0.00		0.00	0	0	0	0	0	0
23	0.00	0.00		0.16	0	0	0	0	53	53
24	0.00	0.00		0.00	0	0	0	0	0	0
25	0.00	0.00		1.23	0	0	0	0	408	408
26	0.00	0.00		1.07	0	0	0	0	356	356
27	0.00	0.00		0.00	0	0	0	0	0	0
28	0.00	0.00		0.00	0	0	0	0	0	0
29	0.00	0.00		0.00	0	0	0	0	0	0
30	0.00	0.00		0.00	0	0	0	0	0	0

September Normal										Total Weather related Load (MWh)
Month	Day	HDD0	HDD13	CDD 18	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Load from Cooling
8	30	0.0	0.0	1.36						
8	31	0.0	0.0	0.88						
9	1	0.0	0.0	0.37	0	0	0	0	0	123
9	2	0.0	0.1	0.15	0	26	0	0	0	50
9	3	0.0	0.0	1.07	0	0	0	0	0	356
9	4	0.0	0.0	1.08	0	0	0	0	0	360
9	5	0.0	0.0	0.84	0	0	0	0	0	280
9	6	0.0	0.0	1.25	0	0	0	0	0	416
9	7	0.0	0.0	0.58	0	0	0	0	0	193
9	8	0.0	0.0	0.77	0	0	0	0	0	256
9	9	0.0	0.0	0.53	0	2	0	0	0	176
9	10	0.0	0.0	0.71	0	0	0	0	0	236
9	11	0.0	0.0	0.44	0	0	0	0	0	146
9	12	0.0	0.0	0.37	0	0	0	0	0	123
9	13	0.0	0.1	0.03	0	12	0	0	0	10
9	14	0.0	0.1	0.41	0	12	0	0	0	136
9	15	0.0	0.2	0.2	0	47	0	0	0	67
9	16	0.0	0.1	0.35	0	30	0	0	0	117
9	17	0.0	0.4	0.4	0	100	0	0	0	133
9	18	0.0	0.4	0.61	0	84	0	0	0	203
9	19	0.0	0.8	0.19	0	186	0	0	0	63
9	20	0.0	0.4	0.37	0	100	0	0	0	123
9	21	0.0	0.2	0.23	0	54	0	0	0	77
9	22	0.0	0.2	0.22	0	56	0	0	0	73
9	23	0.0	0.1	0.22	0	14	0	0	0	73
9	24	0.0	0.9	0	0	202	0	0	0	0
9	25	0.0	1.1	0.33	0	244	0	0	0	110
9	26	0.0	0.4	0.66	0	102	0	0	0	220
9	27	0.0	0.2	0	0	40	0	0	0	0
9	28	0.0	0.4	0.16	0	98	0	0	0	53
9	29	0.0	0.3	0.29	0	58	0	0	0	97
9	30	0.0	0.8	0.32	0	195	0	0	0	107

Variable Coefficients	Month HDD13	HDD 13	HDD0	lag1	lag2	
	174.743	232.686		-97.305	177.016	43.995

Summary	
Oct 2021 heating load	30150 MWh
Normal heating load	49475 MWh
2021 Varinace to Normal	-19325 MWh

	October-21										October Normal						Total Heating Load (MWh)
Day	Actual HDD 0	Actual HDD 13	Load from Mar HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Total Heating Load (MWh)	Month	Day	HDD0	HDD13	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2
-2	0.00	0.00								9	29	0.0	0.3				
-1	0.00	0.00								9	30	0.0	0.8				
1	0.00	0.43	76	101	0	0	0	177		10	1	0.0	0.6	103	137	0	149
2	0.00	0.42	73	97	0	77	0	246		10	2	0.0	1.0	176	235	0	104
3	0.00	1.25	219	292	0	74	19	604		10	3	0.0	1.4	248	330	0	179
4	0.00	1.52	266	354	0	222	18	860		10	4	0.0	1.3	229	305	0	251
5	0.00	1.00	175	234	0	269	55	734		10	5	0.0	1.6	271	361	0	232
6	0.00	0.00	0	0	0	178	67	245		10	6	0.0	1.8	309	412	0	274
7	0.00	0.00	0	0	0	0	44	44		10	7	0.0	1.0	166	221	0	313
8	0.00	1.05	184	245	0	0	0	429		10	8	0.0	0.8	142	188	0	168
9	0.00	3.79	662	881	0	187	0	1730		10	9	0.0	1.6	273	363	0	143
10	0.00	2.28	398	530	0	670	46	1645		10	10	0.0	1.0	178	237	0	276
11	0.00	0.00	0	0	0	403	167	570		10	11	0.0	2.2	391	521	0	181
12	0.00	0.00	0	0	0	0	100	100		10	12	0.0	3.1	542	721	0	397
13	0.00	0.00	0	0	0	0	0	0		10	13	0.0	3.1	536	714	0	549
14	0.00	0.00	0	0	0	0	0	0		10	14	0.0	1.9	330	440	0	543
15	0.00	0.77	134	178	0	0	0	312		10	15	0.0	1.3	225	300	0	335
16	0.00	0.14	24	32	0	136	0	192		10	16	0.0	1.5	255	340	0	228
17	0.00	0.00	0	0	0	24	34	58		10	17	0.0	2.1	363	484	0	258
18	0.00	0.13	23	30	0	0	6	59		10	18	0.0	3.2	563	749	0	368
19	0.00	3.46	605	806	0	23	0	1434		10	19	0.0	3.1	542	721	0	570
20	0.00	4.01	700	933	0	613	6	2252		10	20	0.0	1.7	290	386	0	549
21	0.00	1.11	194	258	0	710	152	1313		10	21	0.0	2.2	388	517	0	294
22	0.00	0.00	0	0	0	196	176	373		10	22	0.0	3.1	542	721	0	393
23	0.00	0.00	0	0	0	0	49	49		10	23	0.0	2.7	470	626	0	549
24	0.00	2.51	438	584	0	0	0	1022		10	24	0.0	3.1	536	714	0	476
25	0.00	4.55	794	1058	0	444	0	2296		10	25	0.0	4.4	772	1028	0	543
26	0.00	2.88	504	671	0	805	110	2090		10	26	0.0	5.4	937	1247	0	782
27	0.00	3.97	694	924	0	510	200	2328		10	27	0.0	5.7	996	1326	0	949
28	0.00	4.60	805	1071	0	703	127	2706		10	28	0.0	5.7	1001	1333	0	1009
29	0.00	3.47	606	807	0	815	175	2402		10	29	0.0	3.7	638	849	0	1014
30	0.00	4.98	871	1160	0	614	203	2847		10	30	0.0	4.4	762	1015	0	646
31	0.0	0.0	0	0	0	882	153	1035		10	31	0.0	5.1	895	1191	0	772

Variable Coefficients Month HDD13 HDD 13 HDD0 lag1 lag2
 349.301 232.686 -97.305 177.016 43.995

Summary
 Nov 2021 heating load 162886 MWh
 Normal heating load 181899 MWh
 2021 Varinace to Normal -19013 MWh

		November-21						
Day	Actual		Load from Mar HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Total Heating Load (MWh)
	Actual HDD 0	HDD 13						
-2	0.00	4.98						
-1	0.00	0.00						
1	0.00	0.00	0	0	0	0	219	219
2	0.00	3.70	1291	860	0	0	0	2151
3	0.00	5.26	1837	1224	0	654	0	3715
4	0.00	7.83	2735	1822	0	931	163	5650
5	0.00	9.33	3260	2172	0	1386	231	7049
6	0.00	8.57	2992	1993	0	1652	344	6982
7	0.00	5.96	2083	1387	0	1516	411	5397
8	0.00	5.79	2022	1347	0	1055	377	4801
9	0.00	4.57	1595	1063	0	1024	262	3945
10	0.00	6.38	2230	1485	0	808	255	4778
11	0.00	8.57	2994	1994	0	1130	201	6319
12	0.00	8.49	2966	1976	0	1517	281	6740
13	0.00	0.48	169	112	0	1503	377	2162
14	0.00	4.17	1457	970	0	86	374	2887
15	0.00	5.24	1831	1220	0	738	21	3810
16	0.00	8.41	2937	1957	0	928	183	6005
17	0.00	10.84	3787	2523	0	1488	231	8029
18	0.00	5.95	2078	1384	0	1919	370	5752
19	0.00	3.02	1055	703	0	1053	477	3288
20	0.00	10.78	3765	2508	0	535	262	7070
21	0.00	9.30	3248	2164	0	1908	133	7453
22	0.00	2.10	735	490	0	1646	474	3345
23	0.00	6.96	2431	1619	0	372	409	4831
24	0.00	12.74	4451	2965	0	1232	93	8740
25	0.00	8.74	3053	2034	0	2255	306	7649
26	0.00	5.52	1927	1284	0	1547	561	5319
27	0.00	7.10	2481	1653	0	977	385	5496
28	0.00	10.93	3816	2542	0	1258	243	7858
29	0.00	7.65	2674	1781	0	1934	313	6701
30	0.00	11.88	4148	2763	0	1355	481	8747

		November Normal							Total Heating Load (MWh)
Month	Day	HDD0	HDD13	Load from current month	Load From	Load From	Load	Load	
				HDD13	HDD 13	HDD0	From lag1	from lag2	
10	30	0.0	4.4						
10	31	0.0	5.1						
11	1	0.0	3.9	1348	898	0	906	192	3345
11	2	0.0	3.3	1163	775	0	683	225	2847
11	3	0.0	5.5	1935	1289	0	589	170	3983
11	4	0.1	7.4	2581	1720	-8	981	147	5420
11	5	0.0	7.2	2518	1678	0	1308	244	5748
11	6	0.0	4.5	1558	1038	0	1276	325	4197
11	7	0.0	4.0	1394	928	0	789	317	3429
11	8	0.0	7.0	2435	1622	0	706	196	4959
11	9	0.1	7.1	2477	1650	-8	1234	176	5528
11	10	0.0	5.9	2047	1364	0	1255	307	4972
11	11	0.1	6.1	2141	1426	-5	1037	312	4912
11	12	0.1	6.4	2229	1485	-11	1085	258	5045
11	13	0.1	7.1	2466	1643	-14	1129	270	5494
11	14	0.2	8.6	2990	1992	-20	1250	281	6492
11	15	0.4	8.1	2815	1875	-42	1515	311	6475
11	16	0.1	8.2	2850	1899	-11	1427	377	6542
11	17	0.2	8.0	2794	1861	-20	1444	355	6435
11	18	0.0	9.0	3130	2085	-2	1416	359	6988
11	19	0.0	8.6	3000	1999	-3	1586	352	6934
11	20	0.1	7.6	2644	1761	-6	1521	394	6315
11	21	0.0	8.5	2980	1985	0	1340	378	6682
11	22	1.0	9.7	3399	2264	-94	1510	333	7411
11	23	0.8	9.3	3262	2173	-79	1722	375	7455
11	24	0.3	10.1	3528	2350	-25	1653	428	7934
11	25	0.6	9.7	3385	2255	-59	1788	411	7779
11	26	0.0	8.3	2896	1929	0	1715	444	6984
11	27	0.1	8.1	2840	1892	-12	1467	426	6614
11	28	0.5	9.2	3217	2143	-46	1439	365	7118
11	29	0.6	11.4	3972	2646	-62	1630	358	8543
11	30	1.6	12.1	4234	2820	-152	2013	405	9320

Variable Coefficients	Month HDD13	HDD 13	HDD0	lag1	lag2
	411.335	232.686	-97.305	177.016	43.995

Summary

Dec 2021 heating load	318539 MWh
Normal heating load	327335 MWh
2021 Varinace to Normal	-8796 MWh

December-21								December Normal										
Day	Actual HDD 0	Actual HDD 13	Load from Mar HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Total Heating Load (MWh)	Month	Day	HDD0	HDD13	Load from Feb HDD13	Load From HDD 13	Load From HDD0	Load From lag1	Load from lag2	Total Heating Load (MWh)
-2	0.0	7.7							11	29	0.6	11.4						
-1	0.0	11.9							11	30	1.6	12.1						
1	0.0	11.2	4621	2614	0	2102	337	9673	12	1	1.1	9.6	3928	2222	-104	2145	500	8692
2	0.0	6.9	2842	1607	0	1988	522	6960	12	2	0.4	9.7	3994	2259	-41	1691	533	8436
3	0.0	7.1	2939	1663	0	1223	494	6319	12	3	0.0	7.5	3064	1734	0	1719	420	6937
4	2.6	15.6	6424	3634	-255	1265	304	11372	12	4	0.0	10.2	4179	2364	0	1319	427	8289
5	1.2	14.2	5827	3296	-114	2764	314	12089	12	5	1.1	10.7	4385	2480	-108	1798	328	8884
6	0.0	8.3	3397	1922	0	2508	687	8513	12	6	0.6	9.0	3718	2103	-54	1887	447	8101
7	0.0	5.8	2377	1345	0	1462	623	5807	12	7	0.6	10.9	4492	2541	-55	1600	469	9046
8	0.6	13.6	5591	3163	-58	1023	363	10082	12	8	2.2	13.1	5401	3055	-210	1933	398	10577
9	3.5	16.5	6782	3836	-339	2406	254	12939	12	9	1.9	12.4	5096	2883	-188	2324	480	10596
10	5.0	18.0	7389	4180	-483	2919	598	14602	12	10	1.1	10.3	4220	2387	-110	2193	578	9269
11	0.0	5.2	2156	1220	0	3180	725	7281	12	11	2.1	11.9	4911	2778	-206	1816	545	9845
12	0.0	5.1	2079	1176	0	928	790	4973	12	12	2.4	12.8	5277	2985	-235	2114	451	10592
13	0.0	7.3	3004	1700	0	895	231	5829	12	13	2.3	12.6	5183	2932	-219	2271	525	10692
14	0.0	10.7	4410	2495	0	1293	222	8420	12	14	1.7	12.8	5277	2985	-162	2230	564	10895
15	2.9	15.9	6537	3698	-281	1898	321	12172	12	15	1.6	12.5	5154	2916	-154	2271	554	10741
16	0.0	10.7	4405	2492	0	2813	472	10181	12	16	3.9	16.0	6581	3723	-381	2218	564	12705
17	0.0	4.6	1880	1064	0	1896	699	5538	12	17	3.1	15.7	6450	3649	-303	2832	551	13179
18	0.0	12.5	5126	2900	0	809	471	9306	12	18	1.7	12.1	4973	2813	-168	2776	704	11097
19	2.3	15.3	6292	3559	-223	2206	201	12035	12	19	1.9	13.9	5726	3239	-187	2140	690	11608
20	4.6	17.6	7253	4103	-451	2708	548	14161	12	20	1.5	14.0	5767	3262	-146	2464	532	11879
21	0.0	11.2	4626	2617	0	3121	673	11037	12	21	0.7	11.5	4730	2676	-64	2482	612	10436
22	0.0	11.5	4711	2665	0	1991	776	10143	12	22	0.8	10.4	4294	2429	-80	2036	617	9296
23	1.3	14.3	5887	3330	-128	2028	495	11612	12	23	0.1	12.1	4957	2804	-13	1848	506	10102
24	7.3	20.3	8342	4719	-708	2534	504	15389	12	24	1.1	11.5	4743	2683	-102	2133	459	9916
25	1.9	14.9	6132	3469	-186	3590	630	13635	12	25	2.7	12.6	5199	2941	-259	2041	530	10453
26	1.8	14.8	6088	3444	-175	2639	892	12888	12	26	3.7	14.7	6047	3420	-356	2237	507	11856
27	0.4	13.4	5508	3116	-38	2620	656	11862	12	27	2.3	14.5	5960	3372	-224	2602	556	12266
28	0.9	13.9	5704	3227	-84	2371	651	11868	12	28	3.0	13.9	5701	3225	-291	2565	647	11847
29	0.0	12.4	5083	2876	0	2455	589	11003	12	29	2.6	14.4	5927	3353	-250	2453	637	12121
30	0.0	12.8	5246	2968	0	2188	610	11012	12	30	3.5	16.1	6610	3739	-343	2551	610	13167
31	0.0	10.9	4494	2542	0	2258	544	9837	12	31	4.9	16.8	6906	3907	-479	2845	634	13813

Variable	Coefficient	StdErr	T-Stat	P-Value	Constant	term	Date	Month	Day	Avg HDD0	Avg HDD13	Avg CDD18	Avg HDD18	Prior Year	Month	Day	HDD0	HDD13	CDD18
CONST	19044.519	56.624	336.331	0.00%			1-Jan-00	1	1	3	14.8	0	19.8	30-Dec	12	30	2.29	15.29	0
DailyHDD13	232.686	19.106	12.179	0.00%			2-Jan-00	1	2	4.98	17.16	0	22.2	31-Dec	12	31	0	12.19	0
DailyHDD0	-97.305	21.585	-4.508	0.00%			3-Jan-00	1	3	5.07	17.24	0	22.2	1-Jan	1	1	0	10.02	0
DailyJanHDD13	424.273	18.77	22.604	0.00%			4-Jan-00	1	4	14.87	0	0	23.3	2-Jan	1	2	0	11.33	0
DailyFebHDD13	403.966	18.717	21.582	0.00%			5-Jan-00	1	5	1.59	13.54	0	18.5	3-Jan	1	3	0	10.81	0
DailyMarHDD13	301.64	18.412	21.582	0.00%			6-Jan-00	1	6	4.53	17.03	0	22.0	4-Jan	1	4	0	9.6	0
DailyAprHDD13	180.936	19.128	21.582	0.00%			7-Jan-00	1	7	5.04	17.8	0	22.8	5-Jan	1	5	0.35	13.35	0
DailyOctHDD13	174.743	25.322	21.582	0.00%			8-Jan-00	1	8	4.68	17.31	0	23.3	6-Jan	1	6	4.88	17.88	0
DailyNovHDD13	349.301	19.086	18.301	0.00%			9-Jan-00	1	9	3.47	15.89	0	20.9	7-Jan	1	7	1.5	14.5	0
DailyDecHDD13	411.335	18.481	22.257	0.00%			10-Jan-00	1	10	2.26	14.42	0	19.4	8-Jan	1	8	1.73	14.73	0
DailyAugCDD18	551.718	37.037	14.896	0.00%			11-Jan-00	1	11	1.66	12.19	0	17.2	9-Jan	1	9	5.3	18.3	0
DailyJuCDD18	559.032	37.188	15.032	0.00%			12-Jan-00	1	12	2.07	12.36	0	17.4	10-Jan	1	10	3.75	16.75	0
DailySepCDD18	332.906	103.163	3.227	0.13%			13-Jan-00	1	13	1.99	12.28	0	17.3	11-Jan	1	11	0	6.68	0
DailyJunCDD18	358.84	118.292	3.034	0.25%			14-Jan-00	1	14	4.12	15.66	0	20.7	12-Jan	1	12	0	10.47	0
DailySun	-964.744	76.652	-12.586	0.00%			15-Jan-00	1	15	4.52	16.77	0	21.8	13-Jan	1	13	3.91	16.91	0
DailySat	-898.36	76.893	-11.683	0.00%			16-Jan-00	1	16	3.71	16.25	0	21.3	14-Jan	1	14	2.11	15.11	0
DailyMon	-172.491	76.293	-3.572	0.04%			17-Jan-00	1	17	4.09	16.53	0	21.5	15-Jan	1	15	1.9	14.9	0
DailyFri	-180.897	76.76	-2.357	1.86%			18-Jan-00	1	18	4.96	17.33	0	22.3	16-Jan	1	16	4.51	17.51	0
DailyLagHDD13	177.016	10.146	17.446	0.00%			19-Jan-00	1	19	3.62	15.55	0	20.6	17-Jan	1	17	9.68	22.68	0
DailyLag2HDD13	43.995	8.477	5.19	0.00%			20-Jan-00	1	20	1.77	13.98	0	19.0	18-Jan	1	18	13.5	26.5	0
							21-Jan-00	1	21	4.25	17.13	0	22.1	19-Jan	1	19	3.3	16.3	0
							22-Jan-00	1	22	7.23	20.23	0	25.2	20-Jan	1	20	3.47	16.47	0
							23-Jan-00	1	23	5.74	18.74	0	23.7	21-Jan	1	21	10.64	23.64	0
							24-Jan-00	1	24	4.49	15.44	0	20.4	22-Jan	1	22	8.64	21.64	0
							25-Jan-00	1	25	4.01	15.36	0	20.4	23-Jan	1	23	0.57	11.57	0
							26-Jan-00	1	26	3.43	15.65	0	20.7	24-Jan	1	24	0.55	13.55	0
							27-Jan-00	1	27	2.15	13.96	0	19.0	25-Jan	1	25	2.51	15.51	0
							28-Jan-00	1	28	1.82	13.97	0	19.0	26-Jan	1	26	0	10.13	0
							29-Jan-00	1	29	3.67	16.32	0	21.2	27-Jan	1	27	0	9.87	0
							30-Jan-00	1	30	3.2	15.95	0	21.0	28-Jan	1	28	1.6	14.6	0
							31-Jan-00	1	31	3.06	14.95	0	20.0	29-Jan	1	29	4.75	17.75	0
1-Feb-00	2	1	3.17	15.55	0	20.6	30-Jan	1	30	3.86	16.31	0	21.3	30-Jan	1	30	7.86	20.86	0
2-Feb-00	2	2	3.86	16.31	0	21.3	31-Jan	1	31	4.96	17.87	0	22.9	31-Jan	1	31	1.13	14.13	0
3-Feb-00	2	3	4.96	17.87	0	22.9	1-Feb-00	2	1	3.4	15.4	0	20.4	1-Feb	2	1	2.21	15.21	0
4-Feb-00	2	4	3.4	15.4	0	20.4	2-Feb-00	2	2	3.02	14.67	0	19.7	2-Feb	2	2	1.43	14.43	0
5-Feb-00	2	5	3.02	14.67	0	19.7	3-Feb-00	2	3	4.34	17.19	0	22.2	3-Feb	2	3	0.43	13.43	0
6-Feb-00	2	6	4.34	17.19	0	22.2	4-Feb-00	2	4	4.02	16.52	0	21.9	4-Feb	2	4	0	11.4	0
7-Feb-00	2	7	4.02	16.52	0	21.9	5-Feb-00	2	5	4.36	16.92	0	21.9	5-Feb	2	5	0.65	13.65	0
8-Feb-00	2	8	4.36	16.92	0	21.9	6-Feb-00	2	6	5.23	18.23	0	23.2	6-Feb	2	6	5.51	18.51	0
9-Feb-00	2	9	5.23	18.23	0	23.2	7-Feb-00	2	7	10.44	17.18	0	22.1	7-Feb	2	7	0	11.12	0
10-Feb-00	2	10	4.44	17.18	0	22.1	8-Feb-00	2	8	5.23	17.37	0	22.4	8-Feb	2	8	2.78	15.78	0
11-Feb-00	2	11	5.23	17.37	0	22.4	9-Feb-00	2	9	4.86	17.56	0	22.6	9-Feb	2	9	7.19	20.19	0
12-Feb-00	2	12	4.86	17.56	0	22.6	10-Feb-00	2	10	4.86	17.05	0	22.1	10-Feb	2	10	0.38	13.38	0
13-Feb-00	2	13	4.86	17.56	0	22.6	11-Feb-00	2	11	4.47	16.87	0	21.9	11-Feb	2	11	0	12.28	0
14-Feb-00	2	14	4.47	16.87	0	21.9	12-Feb-00	2	12	3.4	16.26	0	21.3	12-Feb	2	12	0	12.79	0
15-Feb-00	2	15	3.4	16.26	0	21.3	13-Feb-00	2	13	2.36	14.08	0	19.1	13-Feb	2	13	0.71	22.71	0
16-Feb-00	2	16	2.36	14.08	0	19.1	14-Feb-00	2	14	2.62	14.39	0	19.4	14-Feb	2	14	10.4	23.4	0
17-Feb-00	2	17	2.62	14.39	0	19.4	15-Feb-00	2	15	2.83	15.62	0	20.6	15-Feb	2	15	11.01	24.01	0
18-Feb-00	2	18	2.83	15.62	0	20.6	16-Feb-00	2	16	1.55	13.61	0	18.6	16-Feb	2	16	0	12.9	0
19-Feb-00	2	19	1.55	13.61	0	18.6	17-Feb-00	2	17	2.73	14.91	0	19.9	17-Feb	2	17	0	10.63	0
20-Feb-00	2	20	2.73	14.91	0	19.9	18-Feb-00	2	18	2.86	15.09	0	20.1	18-Feb	2	18	5.71	18.71	0
21-Feb-00	2	21	3.16	15.08	0	20.1	19-Feb-00	2	19	3.23	15.22	0	20.2	19-Feb	2	19	0	10.15	0
22-Feb-00	2	22	1.28	13.16	0	18.2	20-Feb-00	2	20	2.81	14.84	0	19.8	20-Feb	2	20	7.98	20.98	0
23-Feb-00	2	23	2.81	14.84	0	19.8	21-Feb-00	2	21	2.67	14.16	0	19.2	21-Feb	2	21	0.71	22.71	0
24-Feb-00	2	24	2.67	14.16	0	19.2	22-Feb-00	2	22	1.19	12.06	0	17.1	22-Feb	2	22	1.43	14.43	0
25-Feb-00	2	25	1.19	12.06	0	17.1	23-Feb-00	2	23	2.83	14.43	0	19.4	23-Feb	2	23	0	11.69	0
26-Feb-00	2	26	2.83	14.43	0	19.4	24-Feb-00	2	24	4.33	17.07	0	22.1	24-Feb	2	24	0	11.96	0
27-Feb-00	2	27	4.33	17.07	0	22.1	25-Feb-00	2	25	2.86	15.09	0	20.1	25-Feb	2	25	0	10.63	0
28-Feb-00	2	28	2.86	15.09	0	20.1	26-Feb-00	2	26	3.23	15.22	0	20.2	26-Feb	2	26	0	9.72	0
29-Feb-00	2	29	3.23	15.22	0	20.2	27-Feb-00	2	27	2.41	14.55	0	19.6	27-Feb	2	27	0	12.45	0
1-Mar-00	3	1	2.41	14.55	0	19.6	28-Feb-00	2	28	1.09	12.91	0	17.9	28-Feb	2	28	0	12.28	0
2-Mar-00	3	2	1.09	12.91	0	17.9	29-Feb-00	2	29	3.43	15.33	0	20.3	29-Feb	2	29	0.4	13.4	0
3-Mar-00	3	3	3.43	15.33	0	20.3	1-Mar-00	3	1	3.91	15.66	0	20.7	1-Mar	3	1	1.4	14.4	0
4-Mar-00	3	4	3.91	15.66	0	20.7	2-Mar-00	3	2	2.72	15.01	0	20.0	2-Mar	3	2	0.59	13.59	0
5-Mar-00	3	5	2.72	15.01	0	20.0	3-Mar-00	3	3	3.76	15.99	0	21.0	3-Mar	3	3	0	8.74	0
6-Mar-00	3	6	3.76	15.99	0	21.0	4-Mar-00	3	4	2.93	15.18	0	20.3	4-Mar	3	4	0	8.34	0
7-Mar-00	3	7	2.93	15.18	0	20.3	5-Mar-00	3	5	8.05	12.2	0	17.2	5-Mar	3	5	0	10.54	0
8-Mar-00	3	8	8.05	12.2	0	17.2	6-Mar-00	3	6	0.86	12.75	0	17.8	6-Mar	3	6	0.08	13.08	0
9-Mar-00	3	9	0.86	12.75	0	17.8	7-Mar-00	3	7	1.58	13.95	0	19.0	7-Mar	3	7	4.58	17.58	0
10-Mar-00	3	10	1.58	13.95	0	19.0	8-Mar-00	3	8	1.49	12.97	0	18.0	8-Mar	3	8	1.97	14.97	0
11-Mar-00	3	11	1.49	12.97	0	18.0	9-Mar-00	3	9	1.63	12.9	0	17.9	9-Mar	3	9	0	12.58	0
12-Mar-00	3	12	1.63	12.9	0	17.9	10-Mar-00	3	10	1.4	12.36	0	17.4	10-Mar	3	10	0	12.65	0
13-Mar-00	3	13	1.4	12.36	0	17.4	11-Mar-00	3	11	1.73	13.41	0	18.4	11-Mar	3	11	0	10.49	0
14-Mar-00	3	14	1.73	13.41	0	18.4	12-Mar-00	3	12	0.64	12.73	0	17.7	12-Mar	3	12	0.62	13.62	0
15-Mar-00	3	15	0.64	12.73	0	17.7	13-Mar-00	3	13	1.09	12.77	0	17.8	13-Mar	3	13	0	11.74	0
16-Mar-00	3	16	1.09	12.77	0</														

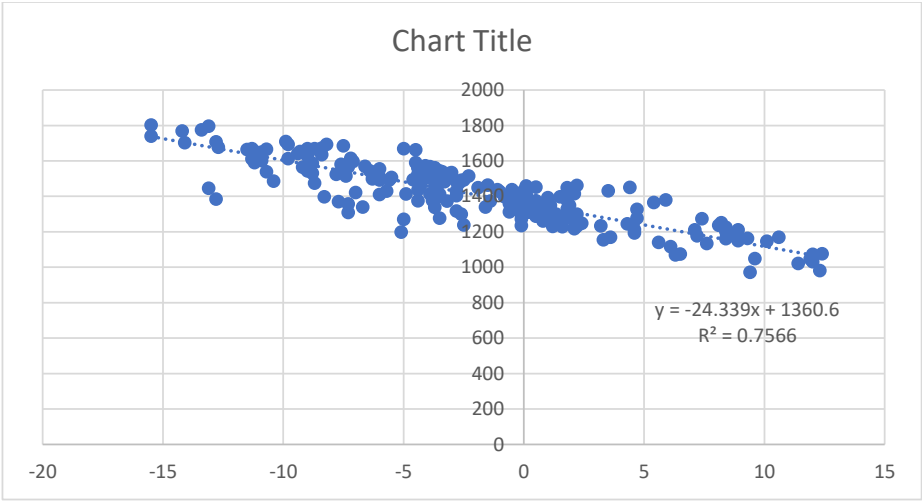
26-May-00	5	26	0	2.7	0	7.4	24-May	5	24	0	5.69	0
27-May-00	5	27	0	3.08	0	7.5	25-May	5	25	0	5.35	0
28-May-00	5	28	0	2.46	0	6.8	26-May	5	26	0	0	0
29-May-00	5	29	0	2.63	0	7.2	27-May	5	27	0	0	0
30-May-00	5	30	0	1.89	0	6.3	28-May	5	28	0	0	0
31-May-00	5	31	0	1.88	0.32	5.6	29-May	5	29	0	0	0
1-Jun-00	6	1	0	1.63	0.24	5.3	30-May	5	30	0	0	0
2-Jun-00	6	2	0	2.12	0	6.7	31-May	5	31	0	2.14	0
3-Jun-00	6	3	0	2.53	0	7.4	1-Jun	6	1	0	0.53	0
4-Jun-00	6	4	0	2.29	0	6.9	2-Jun	6	2	0	2.47	0
5-Jun-00	6	5	0	2.27	0	7.1	3-Jun	6	3	0	5.38	0
6-Jun-00	6	6	0	2.18	0	7.1	4-Jun	6	4	0	0	0
7-Jun-00	6	7	0	1.22	0	6.0	5-Jun	6	5	0	0.01	0
8-Jun-00	6	8	0	0.62	0	4.5	6-Jun	6	6	0	1.8	0
9-Jun-00	6	9	0	0.63	0	5.1	7-Jun	6	7	0	1.53	0
10-Jun-00	6	10	0	0.7	0	4.9	8-Jun	6	8	0	0.96	0
11-Jun-00	6	11	0	0.72	0	4.9	9-Jun	6	9	0	1.73	0
12-Jun-00	6	12	0	0.81	0.2	4.4	10-Jun	6	10	0	3.41	0
13-Jun-00	6	13	0	0.91	0.42	4.4	11-Jun	6	11	0	3.08	0
14-Jun-00	6	14	0	1.32	0	5.6	12-Jun	6	12	0	0.38	0
15-Jun-00	6	15	0	0.79	0	4.8	13-Jun	6	13	0	0	0
16-Jun-00	6	16	0	0.49	0	4.5	14-Jun	6	14	0	0	0
17-Jun-00	6	17	0	0.58	0	4.2	15-Jun	6	15	0	0	0
18-Jun-00	6	18	0	0.41	0.18	3.4	16-Jun	6	16	0	0	0
19-Jun-00	6	19	0	0.16	0.56	2.3	17-Jun	6	17	0	0	0
20-Jun-00	6	20	0	0	0.41	2.0	18-Jun	6	18	0	0	1.79
21-Jun-00	6	21	0	0.28	0.21	3.7	19-Jun	6	19	0	0	4.54
22-Jun-00	6	22	0	0	0.02	2.9	20-Jun	6	20	0	0	4.08
23-Jun-00	6	23	0	0.11	0.11	3.0	21-Jun	6	21	0	1.68	0
24-Jun-00	6	24	0	0.15	0.02	1.8	22-Jun	6	22	0	0	0
25-Jun-00	6	25	0	0.31	0.66	2.2	23-Jun	6	23	0	0	0
26-Jun-00	6	26	0	0	0.09	2.4	24-Jun	6	24	0	0	0
27-Jun-00	6	27	0	0	0	2.1	25-Jun	6	25	0	0	0.92
28-Jun-00	6	28	0	0.1	0.36	2.8	26-Jun	6	26	0	0	0.78
29-Jun-00	6	29	0	0.04	0.01	2.0	27-Jun	6	27	0	0	0
30-Jun-00	6	30	0	0	0.85	1.5	28-Jun	6	28	0	0	0
1-Jul-00	7	1	0	0.72	0	1.2	29-Jun	6	29	0	0	0
2-Jul-00	7	2	0	0	0.33	1.2	30-Jun	6	30	0	0	0
3-Jul-00	7	3	0	0	0.37	0.6	1-Jul	7	1	0	0	0.21
4-Jul-00	7	4	0	0	2.19	0.6	2-Jul	7	2	0	0	0.68
5-Jul-00	7	5	0	0	2.32	0.8	3-Jul	7	3	0	0	0
6-Jul-00	7	6	0	0	1.97	0.5	4-Jul	7	4	0	0	0
7-Jul-00	7	7	0	0	1.37	1.1	5-Jul	7	5	0	0	0
8-Jul-00	7	8	0	0	1.05	1.0	6-Jul	7	6	0	0	0
9-Jul-00	7	9	0	0	0.79	0.9	7-Jul	7	7	0	0	0
10-Jul-00	7	10	0	0.01	0.84	1.0	8-Jul	7	8	0	0	0
11-Jul-00	7	11	0	0	0.47	0.6	9-Jul	7	9	0	0	1.05
12-Jul-00	7	12	0	0	0.8	0.4	10-Jul	7	10	0	0	1.95
13-Jul-00	7	13	0	0	1.21	0.3	11-Jul	7	11	0	0	0
14-Jul-00	7	14	0	0	0.95	1.5	12-Jul	7	12	0	1.22	0
15-Jul-00	7	15	0	0	1.17	1.0	13-Jul	7	13	0	0	2.2
16-Jul-00	7	16	0	0	1.67	0.7	14-Jul	7	14	0	0	0.6
17-Jul-00	7	17	0	0	0.43	0.5	15-Jul	7	15	0	0	0.7
18-Jul-00	7	18	0	0	1.59	0.3	16-Jul	7	16	0	0	0
19-Jul-00	7	19	0	0	1.38	0.2	17-Jul	7	17	0	0	0
20-Jul-00	7	20	0	0	1.88	0.1	18-Jul	7	18	0	0	1.34
21-Jul-00	7	21	0	0	2.26	0.4	19-Jul	7	19	0	0	0.59
22-Jul-00	7	22	0	0	1.44	0.2	20-Jul	7	20	0	1.86	0
23-Jul-00	7	23	0	0	1.15	-	21-Jul	7	21	0	0	5.74
24-Jul-00	7	24	0	0	1.2	0.3	22-Jul	7	22	0	0	3.55
25-Jul-00	7	25	0	0	1.68	0.8	23-Jul	7	23	0	0	1.01
26-Jul-00	7	26	0	0	1.31	0.7	24-Jul	7	24	0	4.1	0
27-Jul-00	7	27	0	0	0.9	0.6	25-Jul	7	25	0	0	3.68
28-Jul-00	7	28	0	0	1.16	0.2	26-Jul	7	26	0	0	2.53
29-Jul-00	7	29	0	0	1.43	0.2	27-Jul	7	27	0	0	1.75
30-Jul-00	7	30	0	0	1.71	0.2	28-Jul	7	28	0	0	3.83
31-Jul-00	7	31	0	0	2.68	-	29-Jul	7	29	0	0	4.92
1-Aug-00	8	1	0	0	2.47	0.1	30-Jul	7	30	0	0	2.5
2-Aug-00	8	2	0	0	1.87	0.1	31-Jul	7	31	0	0	2.36
3-Aug-00	8	3	0	0	1.62	0.1	1-Aug	8	1	0	0	3.31
4-Aug-00	8	4	0	0	1.96	0.2	2-Aug	8	2	0	0	3.41
5-Aug-00	8	5	0	0	1.71	0.2	3-Aug	8	3	0	0	1.21
6-Aug-00	8	6	0	0	1.68	0.2	4-Aug	8	4	0	0	4.78
7-Aug-00	8	7	0	0	1.76	0.0	5-Aug	8	5	0	2.82	0
8-Aug-00	8	8	0	0	1.04	0.4	6-Aug	8	6	0	0	3.02
9-Aug-00	8	9	0	0	1.25	0.2	7-Aug	8	7	0	0	3.01
10-Aug-00	8	10	0	0	1.58	0.4	8-Aug	8	8	0	0	0.55
11-Aug-00	8	11	0	0	1.16	0.2	9-Aug	8	9	0	0	3.17
12-Aug-00	8	12	0	0	1.54	0.1	10-Aug	8	10	0	0	2.95
13-Aug-00	8	13	0	0	1.18	0.2	11-Aug	8	11	0	0	1.51
14-Aug-00	8	14	0	0	1.78	0.0	12-Aug	8	12	0	0	1.51
15-Aug-00	8	15	0	0	1.25	0.0	13-Aug	8	13	0	0	3.21
16-Aug-00	8	16	0	0	1.34	0.2	14-Aug	8	14	0	0	2.86
17-Aug-00	8	17	0	0	0.98	0.3	15-Aug	8	15	0	0	1.33
18-Aug-00	8	18	0	0	1.13	0.0	16-Aug	8	16	0	0	0.16
19-Aug-00	8	19	0	0	1.58	0.1	17-Aug	8	17	0	0	0
20-Aug-00	8	20	0	0	2.33	-	18-Aug	8	18	0	0	1.27
21-Aug-00	8	21	0	0	1.97	-	19-Aug	8	19	0	0	0.99
22-Aug-00	8	22	0	0	1.96	0.1	20-Aug	8	20	0	0	1.77
23-Aug-00	8	23	0	0	1.87	0.1	21-Aug	8	21	0	0	0.84
24-Aug-00	8	24	0	0	1.5	0.2	22-Aug	8	22	0	0	1.34
25-Aug-00	8	25	0	0	1.11	0.4	23-Aug	8	23	0	0	1.8
26-Aug-00	8	26	0	0	0.89	0.7	24-Aug	8	24	0	0	3.24
27-Aug-00	8	27	0	0	1.44	0.6	25-Aug	8	25	0	0	1.25
28-Aug-00	8	28	0	0	1.44	0.3	26-Aug	8	26	0	0	0
29-Aug-00	8	29	0	0	1.11	0.8	27-Aug	8	27	0	0	0
30-Aug-00	8	30	0	0	1.36	1.0	28-Aug	8	28	0	0	0
31-Aug-00	8	31	0	0	0.88	0.4	29-Aug	8	29	0	0	0
1-Sep-00	9	1	0	0	0.37	1.0	30-Aug	8	30	0	0	1.11
2-Sep-00	9	2	0	0.11	0.15	1.8	31-Aug	8	31	0	0	0
3-Sep-00	9	3	0	0	1.07	1.1	1-Sep	9	1	0	0	0
4-Sep-00	9	4	0	0	1.08	0.8	2-Sep	9	2	0	0	0
5-Sep-00	9	5	0	0	0.84	0.9	3-Sep	9	3	0	0	0
6-Sep-00	9	6	0	0	1.25	0.8	4-Sep	9	4	0	0	0.98
7-Sep-00	9	7	0	0	0.58	1.3	5-Sep	9	5	0	0	0.78
8-Sep-00	9	8	0	0	0.77	1.5	6-Sep	9	6	0	0	0
9-Sep-00	9	9	0	0.01	0.53	2.0	7-Sep	9	7	0	0	0
10-Sep-00	9	10	0	0	0.71	1.9	8-Sep	9	8	0	0	1.38
11-Sep-00	9	11	0	0	0.44	1.8	9-Sep	9	9	0	0	0.48
12-Sep-00	9	12	0	0	0.37	1.4	10-Sep	9	10	0	0	2.07
13-Sep-00	9	13	0	0.05	0.03	1.8	11-Sep	9	11	0	0	0
14-Sep-00	9	14	0	0.05	0.41	0.9	12-Sep	9	12	0	0	0
15-Sep-00	9	15	0	0.2	0.2	2.2	13-Sep	9	13	0	0	0
16-Sep-00	9	16	0	0.13	0.35	2.9	14-Sep	9	14	0	0	0.6
17-Sep-00	9	17	0	0.43	0.4	3.0	15-Sep	9	15	0	0	1.03
18-Sep-00	9	18	0	0.36	0.61	3.1	16-Sep	9	16	0	0	0.11
19-Sep-00	9	19	0	0.8	0.19	3.5	17-Sep	9	17	0	0	0.18
20-Sep-00	9	20	0	0.43	0.37	3.2	18-Sep	9	18	0	0	0
21-Sep-00	9	21	0	0.23	0.23	1.8	19-Sep	9	19	0	0	1.14
22-Sep-00	9	22	0	0.24	0.22	2.0	20-Sep	9	20	0	0	3.05
23-Sep-00	9	23	0	0.06	0.22	2.3	21-Sep	9	21	0	0	2.3
24-Sep-00	9	24	0	0.87	0	3.6	22-Sep	9	22	0	0	2.44
25-Sep-00	9	25	0	1.05	0.33	4.6	23-Sep	9	23	0	0	0
26-Sep-00	9	26	0	0.44	0.66	3.5	24-Sep	9	24	0	0	0
27-Sep-00	9	27	0	0.17	0	2.6	25-Sep	9	25			

22-Oct-00	10	22	0	3.1	0	7.5	20-Oct	10	20	0	0	0
23-Oct-00	10	23	0	2.69	0	7.7	21-Oct	10	21	0	0	0
24-Oct-00	10	24	0	3.07	0	7.7	22-Oct	10	22	0	0	0
25-Oct-00	10	25	0	4.42	0	9.0	23-Oct	10	23	0	2.89	0
26-Oct-00	10	26	0	5.36	0	9.9	24-Oct	10	24	0	1.23	0
27-Oct-00	10	27	0	5.7	0	10.6	25-Oct	10	25	0	5.8	0
28-Oct-00	10	28	0	5.73	0	10.7	26-Oct	10	26	0	6.41	0
29-Oct-00	10	29	0	3.65	0	8.5	27-Oct	10	27	0	3.97	0
30-Oct-00	10	30	0	4.36	0	9.1	28-Oct	10	28	0	9.8	0
31-Oct-00	10	31	0	5.12	0	9.9	29-Oct	10	29	0	6.72	0
1-Nov-00	11	1	0	3.86	0	8.5	30-Oct	10	30	0	10.13	0
2-Nov-00	11	2	0	3.33	0	8.3	31-Oct	10	31	0	10.31	0
3-Nov-00	11	3	0	5.54	0	10.1	1-Nov	11	1	0	6.24	0
4-Nov-00	11	4	0.08	7.39	0	12.4	2-Nov	11	2	0	3.05	0
5-Nov-00	11	5	0	7.21	0	12.2	3-Nov	11	3	0	12.98	0
6-Nov-00	11	6	0	4.46	0	9.2	4-Nov	11	4	0.76	12.76	0
7-Nov-00	11	7	0	3.99	0	8.9	5-Nov	11	5	0	4.18	0
8-Nov-00	11	8	0	6.97	0	12.0	6-Nov	11	6	0	0	0
9-Nov-00	11	9	0.08	7.09	0	12.1	7-Nov	11	7	0	0	0
10-Nov-00	11	10	0	5.86	0	10.9	8-Nov	11	8	0	6.36	0
11-Nov-00	11	11	0.05	6.13	0	11.1	9-Nov	11	9	0	2.88	0
12-Nov-00	11	12	0.11	6.38	0	11.2	10-Nov	11	10	0	1.45	0
13-Nov-00	11	13	0.14	7.06	0	11.9	11-Nov	11	11	0	0	0
14-Nov-00	11	14	0.21	8.56	0	13.6	12-Nov	11	12	0	0	0
15-Nov-00	11	15	0.43	8.06	0	13.1	13-Nov	11	13	0	6.58	0
16-Nov-00	11	16	0.11	8.16	0	13.2	14-Nov	11	14	0	8.1	0
17-Nov-00	11	17	0.21	8	0	13.0	15-Nov	11	15	0	10.13	0
18-Nov-00	11	18	0.02	8.96	0	14.0	16-Nov	11	16	0	4.38	0
19-Nov-00	11	19	0.03	8.59	0	13.6	17-Nov	11	17	0	7.36	0
20-Nov-00	11	20	0.06	7.57	0	12.6	18-Nov	11	18	0.22	13.22	0
21-Nov-00	11	21	0	8.53	0	13.5	19-Nov	11	19	0.27	13.27	0
22-Nov-00	11	22	0.97	9.73	0	14.7	20-Nov	11	20	0	3.08	0
23-Nov-00	11	23	0.81	9.34	0	14.3	21-Nov	11	21	0	3.36	0
24-Nov-00	11	24	0.26	10.1	0	15.1	22-Nov	11	22	0	12.31	0
25-Nov-00	11	25	0.61	9.69	0	14.7	23-Nov	11	23	0	4.34	0
26-Nov-00	11	26	0	8.29	0	13.3	24-Nov	11	24	0	9.89	0
27-Nov-00	11	27	0.12	8.13	0	13.1	25-Nov	11	25	0.67	13.67	0
28-Nov-00	11	28	0.47	9.21	0	14.2	26-Nov	11	26	0	4.11	0
29-Nov-00	11	29	0.64	11.37	0	16.4	27-Nov	11	27	0	1.29	0
30-Nov-00	11	30	1.56	12.12	0	17.1	28-Nov	11	28	0	4.8	0
1-Dec-00	12	1	1.07	8.55	0	14.6	29-Nov	11	29	0	8.27	0
2-Dec-00	12	2	0.42	9.71	0	14.7	30-Nov	11	30	0	7.28	0
3-Dec-00	12	3	0	7.45	0	12.5	1-Dec	12	1	0	0.63	0
4-Dec-00	12	4	0	10.16	0	15.2	2-Dec	12	2	0	2.69	0
5-Dec-00	12	5	1.11	10.66	0	15.7	3-Dec	12	3	0	7.49	0
6-Dec-00	12	6	0.56	9.04	0	14.0	4-Dec	12	4	0	4.89	0
7-Dec-00	12	7	0.57	10.92	0	15.9	5-Dec	12	5	0	2.55	0
8-Dec-00	12	8	2.16	13.13	0	18.1	6-Dec	12	6	0	5.88	0
9-Dec-00	12	9	1.93	12.39	0	17.4	7-Dec	12	7	0	10.67	0
10-Dec-00	12	10	1.13	10.26	0	15.3	8-Dec	12	8	0	11.81	0
11-Dec-00	12	11	2.12	11.94	0	16.9	9-Dec	12	9	0	11.86	0
12-Dec-00	12	12	2.42	12.83	0	17.8	10-Dec	12	10	0	11.92	0
13-Dec-00	12	13	2.25	12.6	0	17.6	11-Dec	12	11	0	11.42	0
14-Dec-00	12	14	1.67	12.83	0	17.8	12-Dec	12	12	0	8.61	0
15-Dec-00	12	15	1.58	12.53	0	17.5	13-Dec	12	13	0	5.38	0
16-Dec-00	12	16	3.92	16	0	21.0	14-Dec	12	14	0	7.82	0
17-Dec-00	12	17	3.11	15.68	0	20.7	15-Dec	12	15	1.2	14.2	0
18-Dec-00	12	18	1.73	12.09	0	17.1	16-Dec	12	16	6.82	19.82	0
19-Dec-00	12	19	1.92	13.92	0	18.9	17-Dec	12	17	5.69	18.69	0
20-Dec-00	12	20	1.5	14.02	0	19.0	18-Dec	12	18	0.12	13.12	0
21-Dec-00	12	21	0.66	11.5	0	16.5	19-Dec	12	19	0.06	13.06	0
22-Dec-00	12	22	0.82	10.44	0	15.4	20-Dec	12	20	0	12.75	0
23-Dec-00	12	23	0.13	12.05	0	17.1	21-Dec	12	21	0	5.88	0
24-Dec-00	12	24	1.05	11.53	0	16.5	22-Dec	12	22	0	9.43	0
25-Dec-00	12	25	2.66	12.64	0	17.6	23-Dec	12	23	1.07	14.07	0
26-Dec-00	12	26	3.66	14.7	0	19.7	24-Dec	12	24	0	11.4	0
27-Dec-00	12	27	2.3	14.49	0	19.5	25-Dec	12	25	0	2.9	0
28-Dec-00	12	28	2.99	13.86	0	18.9	26-Dec	12	26	0	5.28	0
29-Dec-00	12	29	2.57	14.41	0	19.4	27-Dec	12	27	0	11.54	0
30-Dec-00	12	30	3.52	16.07	0	21.1	28-Dec	12	28	0	11.7	0
31-Dec-00	12	31	4.92	16.79	0	21.8	29-Dec	12	29	0	8.9	0
							30-Dec	12	30	3.54	16.54	0
							31-Dec	12	31	0	7.83	0

Summary

Jan AM slope	-25.61
Jan PM slope	-25.22
Feb AM slope	-24.98
Feb PM slope	-26.67
Dec AM slope	-24.40
Dec PM slope	-25.61
Average	-25.42

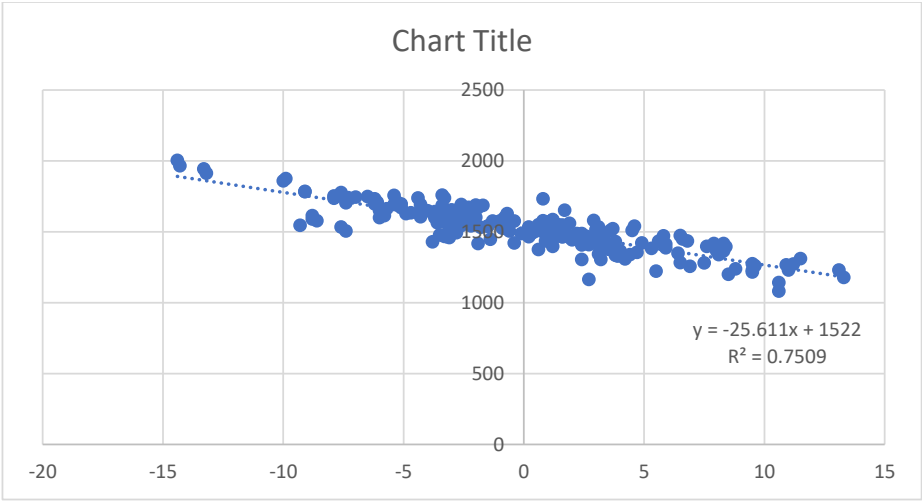
Date	Year	Month	Day	HourEnding	Temp	Load
12/1/2016	2016	12	4	8	4.7	1276.964
12/2/2016	2016	12	5	8	4.6	1212.008
12/5/2016	2016	12	1	8	-3.2	1373.484
12/6/2016	2016	12	2	8	-3.9	1413.756
12/7/2016	2016	12	3	8	-1	1426.007
12/8/2016	2016	12	4	8	-0.3	1354.763
12/9/2016	2016	12	5	8	-6.7	1339.758
12/12/2016	2016	12	1	8	-7.6	1580.321
12/13/2016	2016	12	2	8	0.1	1409.857
12/14/2016	2016	12	3	8	-3.6	1472.547
12/15/2016	2016	12	4	8	-4.3	1463.957
12/16/2016	2016	12	5	8	-15.5	1739.075
12/19/2016	2016	12	1	8	-2.8	1431.907
12/20/2016	2016	12	2	8	-13.4	1774.983
12/21/2016	2016	12	3	8	1.8	1449.081
12/22/2016	2016	12	4	8	0.4	1352.35
12/23/2016	2016	12	5	8	0.8	1261.5
12/26/2016	2016	12	1	8	-12.8	1384.818
12/27/2016	2016	12	2	8	-0.1	1234.376
12/28/2016	2016	12	3	8	-2.5	1238.367
12/29/2016	2016	12	4	8	-7.3	1309.527
12/30/2016	2016	12	5	8	3.6	1169.271
12/1/2017	2017	12	5	8	8.1	1236.149
12/4/2017	2017	12	1	8	0.8	1268.673
12/5/2017	2017	12	2	8	0.9	1295.84
12/6/2017	2017	12	3	8	8.7	1183.024
12/7/2017	2017	12	4	8	2.2	1232.386
12/8/2017	2017	12	5	8	2.1	1262.693
12/11/2017	2017	12	1	8	0.5	1322.249
12/12/2017	2017	12	2	8	-1.6	1338.891
12/13/2017	2017	12	3	8	10.1	1146.645
12/14/2017	2017	12	4	8	-1.9	1448.499
12/15/2017	2017	12	5	8	-6.4	1543.051
12/18/2017	2017	12	1	8	-12.7	1676.398
12/19/2017	2017	12	2	8	3.5	1431.854
12/20/2017	2017	12	3	8	2.2	1299.633
12/21/2017	2017	12	4	8	-5.5	1506.855
12/22/2017	2017	12	5	8	-9.1	1561.009
12/25/2017	2017	12	1	8	-3.5	1276.154
12/26/2017	2017	12	2	8	-5.1	1198.076
12/27/2017	2017	12	3	8	-9.2	1564.624
12/28/2017	2017	12	4	8	-14.1	1703.335
12/29/2017	2017	12	5	8	-10.9	1601.285
12/3/2018	2018	12	1	8	8.9	1150.115
12/4/2018	2018	12	2	8	0.5	1287.488
12/5/2018	2018	12	3	8	-6	1491.77
12/6/2018	2018	12	4	8	-4.1	1505.301
12/7/2018	2018	12	5	8	-3.1	1506.315
12/10/2018	2018	12	1	8	-3.5	1543.585
12/11/2018	2018	12	2	8	-11.1	1648.024
12/12/2018	2018	12	3	8	-9.3	1652.793
12/13/2018	2018	12	4	8	-9.8	1693.597
12/14/2018	2018	12	5	8	-5	1669.538
12/17/2018	2018	12	1	8	1.8	1376.616
12/18/2018	2018	12	2	8	0.2	1360.507
12/19/2018	2018	12	3	8	-3.4	1538.354
12/20/2018	2018	12	4	8	-3.7	1561.065
12/21/2018	2018	12	5	8	0	1432.128
12/24/2018	2018	12	1	8	-6	1409.574
12/25/2018	2018	12	2	8	-7	1420.814
12/26/2018	2018	12	3	8	-10.4	1486.461
12/27/2018	2018	12	4	8	-8.8	1531.583
12/28/2018	2018	12	5	8	-11.2	1589.622
12/31/2018	2018	12	1	8	-11.3	1610.444
12/2/2019	2019	12	1	8	-3.6	1503.459
12/3/2019	2019	12	2	8	1.5	1397.054
12/4/2019	2019	12	3	8	1.9	1282.449
12/5/2019	2019	12	4	8	-0.3	1375.652
12/6/2019	2019	12	5	8	0.8	1358.996
12/9/2019	2019	12	1	8	5.4	1365.436
12/10/2019	2019	12	2	8	11.9	1046.507
12/11/2019	2019	12	3	8	2.1	1217.31
12/12/2019	2019	12	4	8	-2.8	1484.9
12/13/2019	2019	12	5	8	-8.4	1672.524
12/16/2019	2019	12	1	8	-2.5	1492.79
12/17/2019	2019	12	2	8	-4.4	1566.565
12/18/2019	2019	12	3	8	-3.7	1476.412
12/19/2019	2019	12	4	8	-7.3	1566.626
12/20/2019	2019	12	5	8	-9	1669.785
12/23/2019	2019	12	1	8	0.2	1310.648
12/24/2019	2019	12	2	8	2.4	1248.458
12/25/2019	2019	12	3	8	-2.8	1317.412
12/26/2019	2019	12	4	8	-8.3	1398.022
12/27/2019	2019	12	5	8	-7.8	1524.492
12/30/2019	2019	12	1	8	-4.4	1374.854



12/31/2019	2019	12	2	8	0.2	1317.734
12/1/2020	2020	12	2	8	12	1031.551766
12/2/2020	2020	12	3	8	12.3	981.4791668
12/3/2020	2020	12	4	8	6.3	1070.418377
12/4/2020	2020	12	5	8	8.4	1160.529382
12/7/2020	2020	12	1	8	1.2	1229.785756
12/8/2020	2020	12	2	8	-0.1	1271.354458
12/9/2020	2020	12	3	8	-0.1	1297.916135
12/10/2020	2020	12	4	8	1	1303.832004
12/11/2020	2020	12	5	8	-0.1	1304.821034
12/14/2020	2020	12	1	8	5.6	1140.090214
12/15/2020	2020	12	2	8	-0.6	1312.678864
12/16/2020	2020	12	3	8	-9	1636.13985
12/17/2020	2020	12	4	8	-8.8	1587.086367
12/18/2020	2020	12	5	8	-0.8	1397.072801
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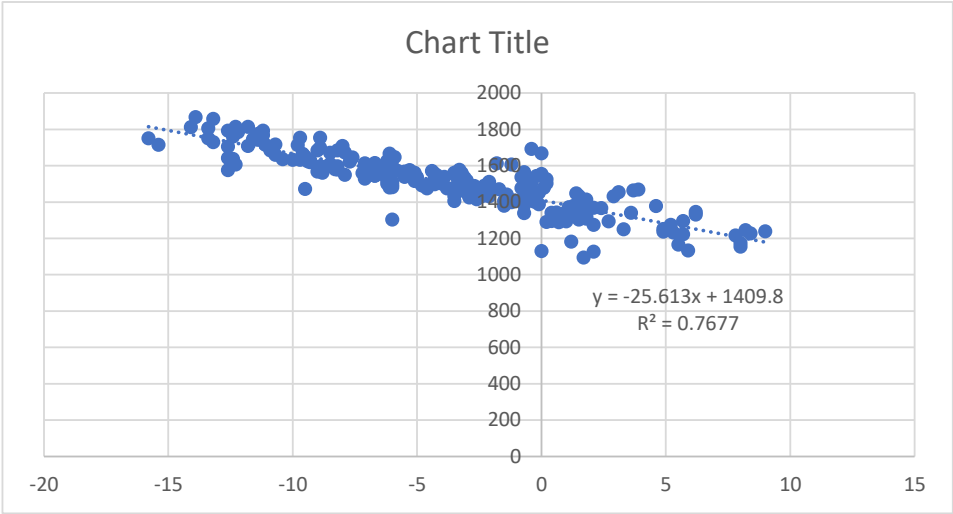
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12/17/2020	2020	12	4	19	-3.4	1686.377933
12/18/2020	2020	12	5	19	1	1525.475161
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12/22/2020	2020	12	2	19	2.5	1421.296388
12/23/2020	2020	12	3	19	-3.4	1570.251806
12/24/2020	2020	12	4	19	6.5	1283.501021
12/25/2020	2020	12	5	19	10.6	1081.614967
12/28/2020	2020	12	1	19	5.9	1414.287132
12/29/2020	2020	12	2	19	0.9	1434.71922
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12/31/2020	2020	12	4	19	3.7	1368.198842

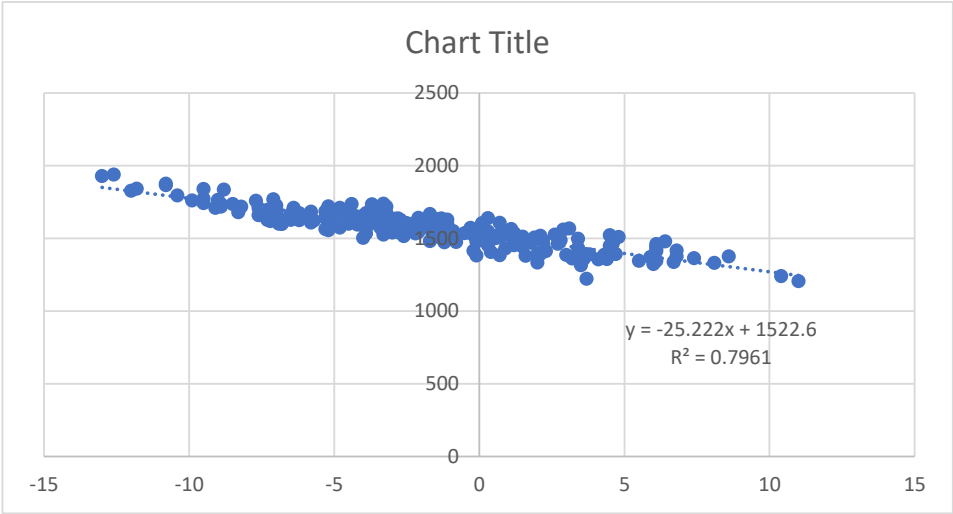
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1/6/2016	2016	1	3	8	-3.3	1576.811
1/7/2016	2016	1	4	8	-2.7	1488.919
1/8/2016	2016	1	5	8	-3.8	1475.096
1/11/2016	2016	1	1	8	9	1239.27
1/12/2016	2016	1	2	8	-4.6	1475.217
1/13/2016	2016	1	3	8	0.2	1291.199
1/14/2016	2016	1	4	8	-6	1511.272
1/15/2016	2016	1	5	8	-9.4	1624.13
1/18/2016	2016	1	1	8	-3.5	1406.06
1/19/2016	2016	1	2	8	-7.1	1529.373
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1/21/2016	2016	1	4	8	-6.7	1545.572
1/22/2016	2016	1	5	8	-9	1567.882
1/25/2016	2016	1	1	8	-6.4	1554.401
1/26/2016	2016	1	2	8	0	1555.166
1/27/2016	2016	1	3	8	4.9	1236.891
1/28/2016	2016	1	4	8	-6	1495.462
1/29/2016	2016	1	5	8	1.5	1302.996
1/2/2017	2017	1	1	8		
1/3/2017	2017	1	2	8	-9.5	1472.79
1/4/2017	2017	1	3	8	3.6	1341.096
1/5/2017	2017	1	4	8	3.3	1250.067
1/6/2017	2017	1	5	8	2.4	1366.043
1/9/2017	2017	1	1	8	-15.4	1714.999
1/10/2017	2017	1	2	8	-14.1	1813.045
1/11/2017	2017	1	3	8	2.9	1431.671
1/12/2017	2017	1	4	8	1.7	1358.838
1/13/2017	2017	1	5	8	8	1155.26
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1/18/2018	2018	1	4	8	-1.1	1409.639
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1/8/2019	2019	1	2	8	-8.5	1671.563
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1/6/2020	2020	1	1	8	-6.2	1522.827
1/7/2020	2020	1	2	8	-5	1513.635
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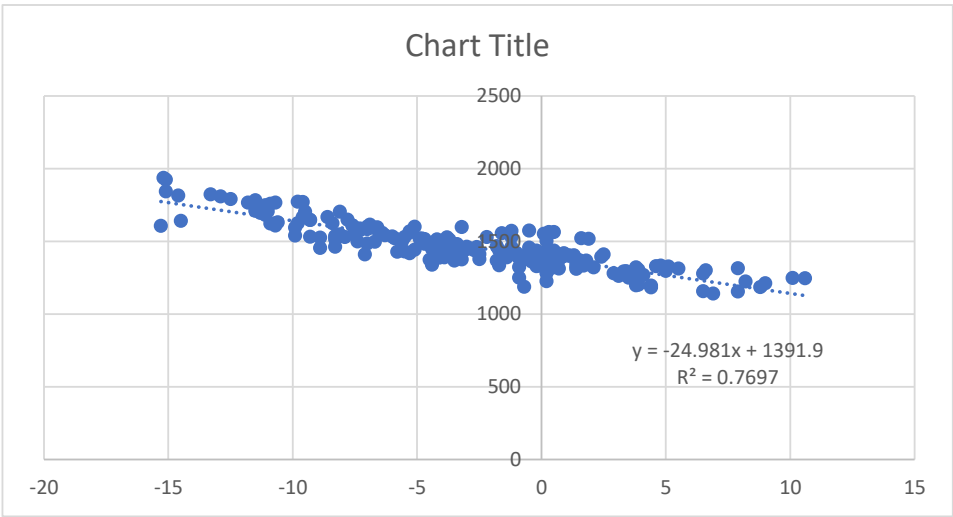
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1/3/2020	2020	1	5	18	4.4	1395.106
1/6/2020	2020	1	1	18	-4.9	1651.97
1/7/2020	2020	1	2	18	0.8	1519.004
1/8/2020	2020	1	3	18	-2.5	1605.121
1/9/2020	2020	1	4	18	-6.4	1711.433
1/10/2020	2020	1	5	18	2.9	1560.446
1/13/2020	2020	1	1	18	-3.9	1673.954
1/14/2020	2020	1	2	18	-2.1	1642.087
1/15/2020	2020	1	3	18	-0.3	1573.322
1/16/2020	2020	1	4	18	-4.1	1649.918
1/17/2020	2020	1	5	18	-12.6	1939.728
1/20/2020	2020	1	1	18	-3.6	1655.578
1/21/2020	2020	1	2	18	-9.5	1772.472
1/22/2020	2020	1	3	18	-4.5	1676.702
1/23/2020	2020	1	4	18	2.7	1463.918
1/24/2020	2020	1	5	18	1.5	1443.839
1/27/2020	2020	1	1	18	3.5	1391.732
1/28/2020	2020	1	2	18	-3.2	1579.628
1/29/2020	2020	1	3	18	-6.5	1665.547
1/30/2020	2020	1	4	18	-6.2	1673.844
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1/1/2016	2016	1	5	19	0.7	1383.612
1/4/2016	2016	1	1	19	-3.1	1553.032
1/5/2016	2016	1	2	19	-9.1	1711.325
1/6/2016	2016	1	3	19	1.5	1512.266
1/7/2016	2016	1	4	19	1.7	1481.84
1/8/2016	2016	1	5	19	-1.7	1482.71
1/11/2016	2016	1	1	19	3	1386.233
1/12/2016	2016	1	2	19	-3.9	1534.713
1/13/2016	2016	1	3	19	-2.2	1534.9
1/14/2016	2016	1	4	19	-7.3	1628.233
1/15/2016	2016	1	5	19	-5.3	1565.629
1/18/2016	2016	1	1	19	-1.6	1512.626
1/19/2016	2016	1	2	19	-8.9	1717.675
1/20/2016	2016	1	3	19	-2.9	1575.812
1/21/2016	2016	1	4	19	-5.8	1625.522
1/22/2016	2016	1	5	19	-6.9	1601.93
1/25/2016	2016	1	1	19	-3.2	1564.403
1/26/2016	2016	1	2	19	6.1	1445.015
1/27/2016	2016	1	3	19	4.3	1386.075
1/28/2016	2016	1	4	19	-0.2	1414.942
1/29/2016	2016	1	5	19	0.3	1454.286
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1/3/2017	2017	1	2	19	-1.3	1517.689
1/4/2017	2017	1	3	19	5.9	1371.891
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1/10/2017	2017	1	2	19	0.1	1606.028
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1/20/2017	2017	1	5	19	-0.8	1475.592
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1/26/2017	2017	1	4	19	3.6	1357.916
1/27/2017	2017	1	5	19	2	1391.909
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1/18/2018	2018	1	4	19	-0.2	1521.464
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1/23/2018	2018	1	2	19	4.5	1522.039
1/24/2018	2018	1	3	19	4.4	1359.002
1/25/2018	2018	1	4	19	-6.1	1643.074
1/26/2018	2018	1	5	19	-8.3	1680.112
1/29/2018	2018	1	1	19	-4.2	1594.684
1/30/2018	2018	1	2	19	-3.5	1707.671
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1/3/2019	2019	1	4	19	-4.8	1709.666
1/4/2019	2019	1	5	19	1.2	1475.574
1/7/2019	2019	1	1	19	-7.6	1709.063
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1/27/2020	2020	1	1	19	3.1	1384.1
1/28/2020	2020	1	2	19	-3.2	1568.395
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Date	Year	Month	Day	Hour	Ending Temp	Load
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2/5/2016	2016	2	5	8	3.8	1198.113
2/8/2016	2016	2	1	8	-7	1485.955
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2/10/2016	2016	2	3	8	-5.1	1443.194
2/11/2016	2016	2	4	8	-4.7	1483.921
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2/16/2016	2016	2	2	8	1.6	1522.79
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2/7/2018	2018	2	3	8	-4.7	1516.22
2/8/2018	2018	2	4	8	6.5	1278.465
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2/26/2019	2019	2	2	8	-9.6	1667.556
2/27/2019	2019	2	3	8	-15.2	1937.531
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2/3/2020	2020	2	1	8	-3.6	1482.331

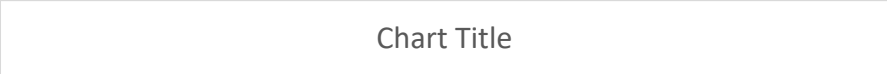


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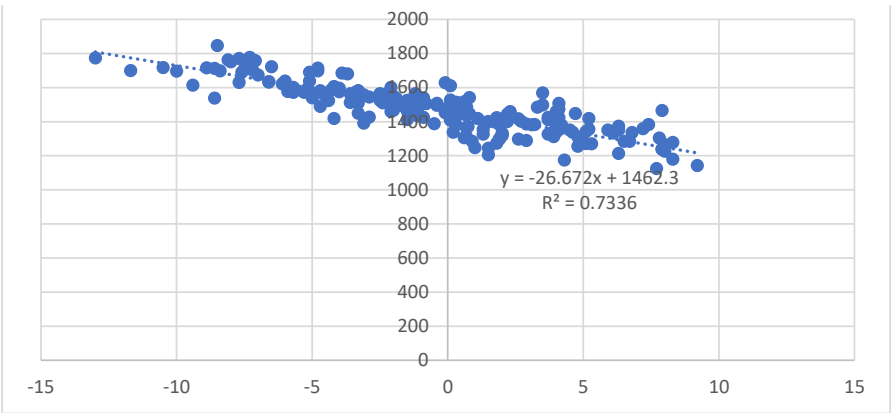
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2/10/2020	2020	2	1	9	-0.5	1575.758
2/11/2020	2020	2	2	9	0.5	1437.597
2/12/2020	2020	2	3	9	0.3	1388.563
2/13/2020	2020	2	4	9	0.9	1418.887
2/14/2020	2020	2	5	9	-10.6	1631.097
2/17/2020	2020	2	1	9	0.2	1281.212
2/18/2020	2020	2	2	9	-10.7	1609.013
2/19/2020	2020	2	3	9	5.1	1327.536
2/20/2020	2020	2	4	9	-9.3	1648.495
2/21/2020	2020	2	5	9	-14.6	1815.453
2/24/2020	2020	2	1	9	0.1	1422.84
2/25/2020	2020	2	2	9	1.5	1371.617
2/26/2020	2020	2	3	9	2.1	1321.829
2/27/2020	2020	2	4	9	-1	1421.379
2/28/2020	2020	2	5	9	-1.4	1400.145

Date	Year	Month	Day	Hour	Ending Temp	Load
2/1/2016	2016	2	1	18	6.8	1336.218
2/2/2016	2016	2	2	18	0.3	1383.221
2/3/2016	2016	2	3	18	0.1	1526.842
2/4/2016	2016	2	4	18	8.3	1277.663
2/5/2016	2016	2	5	18	2.6	1416.688
2/8/2016	2016	2	1	18	-5.1	1689.158
2/9/2016	2016	2	2	18	-2	1511.388
2/10/2016	2016	2	3	18	-0.1	1471.323
2/11/2016	2016	2	4	18	0.3	1448.772
2/12/2016	2016	2	5	18	-8.6	1538.053
2/15/2016	2016	2	1	18	-5.2	1589.971
2/16/2016	2016	2	2	18	4.5	1350.877
2/17/2016	2016	2	3	18	6.3	1213.013
2/18/2016	2016	2	4	18	1.9	1299.72
2/19/2016	2016	2	5	18	0.7	1309.583
2/22/2016	2016	2	1	18	0.2	1337.89
2/23/2016	2016	2	2	18	-4.2	1419.128
2/24/2016	2016	2	3	18	3.7	1424.445
2/25/2016	2016	2	4	18	7.9	1237.238
2/26/2016	2016	2	5	18	2.6	1297.444
2/29/2016	2016	2	1	18	9.2	1141.905
2/1/2017	2017	2	3	18	-2.1	1554.719
2/2/2017	2017	2	4	18	0	1445.636
2/3/2017	2017	2	5	18	-5	1540.56
2/6/2017	2017	2	1	18	-5.1	1579.671
2/7/2017	2017	2	2	18	-8.4	1697.624
2/8/2017	2017	2	3	18	4.7	1448.469
2/9/2017	2017	2	4	18	-2.5	1564.42
2/10/2017	2017	2	5	18	-10	1696.13
2/13/2017	2017	2	1	18	-1.9	1538.889
2/14/2017	2017	2	2	18	-3.4	1573.991
2/15/2017	2017	2	3	18	-2.2	1508.564
2/16/2017	2017	2	4	18	-2.2	1538.337
2/17/2017	2017	2	5	18	-1.5	1462.321
2/20/2017	2017	2	1	18	-1.1	1432.645
2/21/2017	2017	2	2	18	2	1327.394
2/22/2017	2017	2	3	18	2.9	1290.03
2/23/2017	2017	2	4	18	1.5	1245.052
2/24/2017	2017	2	5	18	7.7	1125.116
2/27/2017	2017	2	1	18	1.8	1272.731
2/28/2017	2017	2	2	18	1.5	1205.543
2/1/2018	2018	2	4	18	4.1	1474.178
2/2/2018	2018	2	5	18	4.1	1424.139
2/5/2018	2018	2	1	18	6.3	1350.64
2/6/2018	2018	2	2	18	-2.3	1560.711
2/7/2018	2018	2	3	18	-1.2	1528.999
2/8/2018	2018	2	4	18	-3.3	1582.348
2/9/2018	2018	2	5	18	-3.4	1522.067
2/12/2018	2018	2	1	18	4	1366.093
2/13/2018	2018	2	2	18	-5.7	1571.98
2/14/2018	2018	2	3	18	2.3	1459.157
2/15/2018	2018	2	4	18	1.3	1326.324
2/16/2018	2018	2	5	18	5.1	1342.555
2/19/2018	2018	2	1	18	1.9	1382.677
2/20/2018	2018	2	2	18	5.9	1351.444
2/21/2018	2018	2	3	18	6.7	1284.51
2/22/2018	2018	2	4	18	0.3	1429.521
2/23/2018	2018	2	5	18	-3.1	1390.545
2/26/2018	2018	2	1	18	4	1356.431
2/27/2018	2018	2	2	18	4.8	1254.791
2/28/2018	2018	2	3	18	7.9	1238.799
2/1/2019	2019	2	5	18	-7.2	1761.983
2/4/2019	2019	2	1	18	3.5	1497.457
2/5/2019	2019	2	2	18	7.4	1383.672
2/6/2019	2019	2	3	18	-3.2	1548.449
2/7/2019	2019	2	4	18	-1.4	1512.105
2/8/2019	2019	2	5	18	4.2	1380.478
2/11/2019	2019	2	1	18	-6.5	1721.736
2/12/2019	2019	2	2	18	-1.2	1564.777
2/13/2019	2019	2	3	18	-0.1	1628.686
2/14/2019	2019	2	4	18	-2.2	1506.088
2/15/2019	2019	2	5	18	-1.1	1480.453
2/18/2019	2019	2	1	18	-4.3	1586.488
2/19/2019	2019	2	2	18	-6.6	1632.359
2/20/2019	2019	2	3	18	-7.6	1689.236
2/21/2019	2019	2	4	18	-4.8	1698.361
2/22/2019	2019	2	5	18	-2.9	1427.072
2/25/2019	2019	2	1	18	-0.1	1452.529
2/26/2019	2019	2	2	18	-7.7	1770.643
2/27/2019	2019	2	3	18	-7.2	1702.313
2/28/2019	2019	2	4	18	-5.9	1577.3
2/3/2020	2020	2	1	18	1.8	1423.98
2/4/2020	2020	2	2	18	1.7	1398.649
2/5/2020	2020	2	3	18	-2.1	1458.772
2/6/2020	2020	2	4	18	-3.9	1685.079
2/7/2020	2020	2	5	18	0.8	1542.031
2/10/2020	2020	2	1	18	3.5	1568.305
2/11/2020	2020	2	2	18	-0.4	1501.239

2/12/2020	2020	2	3	18	0.8	1445.878
2/13/2020	2020	2	4	18	0.4	1509.234
2/14/2020	2020	2	5	18	-11.7	1699.336
2/17/2020	2020	2	1	18	4	1343.705
2/18/2020	2020	2	2	18	-4.6	1564.313
2/19/2020	2020	2	3	18	2.7	1402.086
2/20/2020	2020	2	4	18	-7.7	1630.203
2/21/2020	2020	2	5	18	-4.4	1524.425
2/24/2020	2020	2	1	18	1	1247.681
2/25/2020	2020	2	2	18	4.8	1309.868
2/26/2020	2020	2	3	18	5.3	1270.397
2/27/2020	2020	2	4	18	0.3	1514.315
2/28/2020	2020	2	5	18	0.7	1365.218
2/1/2016	2016	2	1	19	6.1	1332.826
2/2/2016	2016	2	2	19	-0.9	1424.401
2/3/2016	2016	2	3	19	0.6	1517.292
2/4/2016	2016	2	4	19	8	1264.796
2/5/2016	2016	2	5	19	2.2	1401.093
2/8/2016	2016	2	1	19	-5.1	1638.446
2/9/2016	2016	2	2	19	-2.4	1511.336
2/10/2016	2016	2	3	19	-0.8	1505.503
2/11/2016	2016	2	4	19	0.7	1484.635
2/12/2016	2016	2	5	19	-9.4	1613.858
2/15/2016	2016	2	1	19	-6	1638.325
2/16/2016	2016	2	2	19	6.3	1373.756
2/17/2016	2016	2	3	19	5.1	1271.892
2/18/2016	2016	2	4	19	0.75	1372.004
2/19/2016	2016	2	5	19	-0.5	1388.057
2/22/2016	2016	2	1	19	-1.5	1413.014
2/23/2016	2016	2	2	19	-4.7	1490.164
2/24/2016	2016	2	3	19	3.7	1412.555
2/25/2016	2016	2	4	19	8	1227.286
2/26/2016	2016	2	5	19	2	1318.575
2/29/2016	2016	2	1	19	8.3	1179.733
2/1/2017	2017	2	3	19	-2	1549.034
2/2/2017	2017	2	4	19	-1.6	1487.869
2/3/2017	2017	2	5	19	-5.3	1572.713
2/6/2017	2017	2	1	19	-6.1	1621.988
2/7/2017	2017	2	2	19	-8.6	1713.051
2/8/2017	2017	2	3	19	5.2	1418.728
2/9/2017	2017	2	4	19	-3.3	1579.627
2/10/2017	2017	2	5	19	-10.5	1717.362
2/13/2017	2017	2	1	19	-2.2	1535.023
2/14/2017	2017	2	2	19	-4.7	1581.337
2/15/2017	2017	2	3	19	-2.5	1525.594
2/16/2017	2017	2	4	19	-2.5	1561.155
2/17/2017	2017	2	5	19	-1.3	1475.37
2/20/2017	2017	2	1	19	-2	1467.821
2/21/2017	2017	2	2	19	0.1	1408.287
2/22/2017	2017	2	3	19	1.3	1354.695
2/23/2017	2017	2	4	19	1.9	1298.436
2/24/2017	2017	2	5	19	4.3	1174.52
2/27/2017	2017	2	1	19	2	1333.036
2/28/2017	2017	2	2	19	0.9	1284.052
2/1/2018	2018	2	4	19	4	1460.857
2/2/2018	2018	2	5	19	0.7	1435.841
2/5/2018	2018	2	1	19	4.2	1361.063
2/6/2018	2018	2	2	19	-2.2	1565.157
2/7/2018	2018	2	3	19	-0.9	1539.952
2/8/2018	2018	2	4	19	-4	1596.707
2/9/2018	2018	2	5	19	-2.9	1544.185
2/12/2018	2018	2	1	19	2.9	1385.628
2/13/2018	2018	2	2	19	-6.6	1635.71
2/14/2018	2018	2	3	19	2.3	1445.11
2/15/2018	2018	2	4	19	0.7	1361.443
2/16/2018	2018	2	5	19	4.6	1338.244
2/19/2018	2018	2	1	19	1.1	1418.478
2/20/2018	2018	2	2	19	5.2	1355.072
2/21/2018	2018	2	3	19	7.8	1303.483
2/22/2018	2018	2	4	19	-0.1	1464.192
2/23/2018	2018	2	5	19	-3.3	1450.142
2/26/2018	2018	2	1	19	3.1	1381.749
2/27/2018	2018	2	2	19	3.7	1326.16
2/28/2018	2018	2	3	19	6.5	1285.095
2/1/2019	2019	2	5	19	-7.1	1758.404
2/4/2019	2019	2	1	19	3.3	1484.847
2/5/2019	2019	2	2	19	7.2	1358.985
2/6/2019	2019	2	3	19	-3.6	1564.201
2/7/2019	2019	2	4	19	-1.5	1524.835
2/8/2019	2019	2	5	19	3.9	1341.981
2/11/2019	2019	2	1	19	-7.3	1777.123
2/12/2019	2019	2	2	19	-2.1	1600.518
2/13/2019	2019	2	3	19	0.1	1610.635
2/14/2019	2019	2	4	19	-3.1	1558.279
2/15/2019	2019	2	5	19	-0.4	1496.805
2/18/2019	2019	2	1	19	-4.2	1606.597
2/19/2019	2019	2	2	19	-7.5	1711.248
2/20/2019	2019	2	3	19	-8	1751.988
2/21/2019	2019	2	4	19	-4.8	1714.735



2/22/2019	2019	2	5	19	-3.6	1511.691
2/25/2019	2019	2	1	19	-1.3	1486.967
2/26/2019	2019	2	2	19	-8.5	1846.83
2/27/2019	2019	2	3	19	-8.1	1762.91
2/28/2019	2019	2	4	19	-7	1674.429
2/3/2020	2020	2	1	19	0.6	1447.58
2/4/2020	2020	2	2	19	1.5	1401.678
2/5/2020	2020	2	3	19	-3.3	1508.777
2/6/2020	2020	2	4	19	-3.7	1680.499
2/7/2020	2020	2	5	19	7.9	1466.183
2/10/2020	2020	2	1	19	4.1	1508.077
2/11/2020	2020	2	2	19	-0.4	1506.918
2/12/2020	2020	2	3	19	0	1469.476
2/13/2020	2020	2	4	19	0.1	1497.291
2/14/2020	2020	2	5	19	-13	1773.88
2/17/2020	2020	2	1	19	3.2	1383.92
2/18/2020	2020	2	2	19	-4	1574.533
2/19/2020	2020	2	3	19	2.2	1444.416
2/20/2020	2020	2	4	19	-8.9	1715.486
2/21/2020	2020	2	5	19	-5.7	1601.147
2/24/2020	2020	2	1	19	0.6	1304.951
2/25/2020	2020	2	2	19	4	1339.803
2/26/2020	2020	2	3	19	3.9	1312.731
2/27/2020	2020	2	4	19	0.4	1499.629
2/28/2020	2020	2	5	19	0.1	1421.554



10 - Year Energy and Demand Forecast (2020 Load Forecast Report) (NSUARB M09707)
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Request IR-13:

On page 9 of 137, NS Power reports the 2020 growth in system peak at 8.9% and the prior year 2019 growth at -0.6% %. In 2019 the forecast growth was reported as 7.2% for 2019, which NS Power explained related to peak being achieved at -11.7 degrees while the forecast peak temperature was -15 degrees.

(a) Please confirm the 7.2% growth reported in 2019 was forecast and the -0.6% decline is actual.

(b) NS Power states the 2019's firm peak occurred at -15.2 degrees compared to the -15 degrees:

(i) NS Power appears to indicate this is explained due to lighting load, page 61, please provide statistics that support an increase of 113 MW (2,066 MW forecast versus 1,953 MW actual) due to lighting. Or explain the other drivers resulting in this reduced peak.

(ii) Please provide the daylight hours on February 27, 2019 in Nova Scotia, and explain whether 8:00 a.m. was considered daylight.

(iii) Please provide sensitivity assumptions associated with load and daylight hours, i.e. at -15 degrees in the full dark, twilight and full daylight, to indicate how much load is related to lighting.

(iv) Please provide sensitivity assumptions associated with a 0.2 degree Celsius variance in peak, assuming a weekday with full lighting load.

(v) What, if any, other factors impacted the 2019 variance?

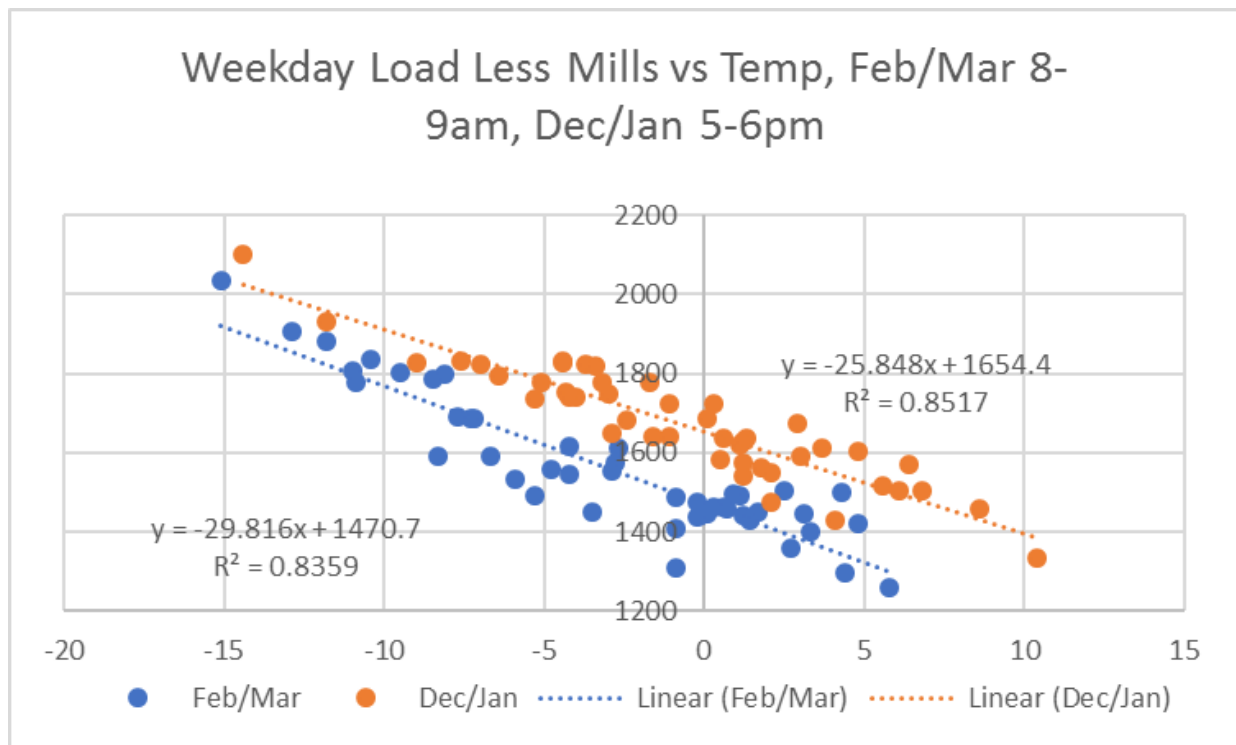
10 - Year Energy and Demand Forecast (2020 Load Forecast Report) (NSUARB M09707)
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Response IR-13:

(a) Confirmed.

(b) (i) The two main variances in 2019 consist of the lighting load and the fact that it was a morning peak rather than an evening peak. Although it is difficult to quantify the exact variance, an illustrative example can be provided by looking at temperature response for the hour ending 9:00 am for late February/early March as compared to the hour ending 6:00 pm for late December/early January. The graph below shows system weekday load excluding mills from 2016-present for each of those periods, including a linear trend line through the data.



The amount of variance at any particular temperature is as much as approximately 200 MW within either data series. This is what makes peaks difficult to predict and explain after the fact, and the variance is driven by individual behaviours, temperature and weather in the days before, patterns that may be related to specific days of the week (for example, more

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1 people taking a random Friday holiday versus another weekday holiday), and many other
2 factors. Comparing the trend lines in these two series shows a fairly consistent drop in the
3 morning February/March peak compared to the evening December/January peak, and
4 much of this can be explained by the difference in lighting load. Looking at the intercepts
5 of the linear trend lines indicates that this difference is around 180 MW (1654-1470).
6 Accounting for the fact that the trend lines converge at lower temperatures, the difference
7 is approximately 150 MW, which would create a “normalized” peak of around 2100 MW.
8

9 (ii) Sunrise on February 27, 2019 was at 6:55 am according to www.timeanddate.com;
10 8:00 am would be considered daylight.
11

12 (iii) This analysis has not been done.
13

14 (iv) Using the graph above, temperature sensitivity can be approximated by the slope
15 of the trend lines, so for the February/March morning peak the sensitivity is around 30 MW
16 per degree Celcius, or around 6 MW.
17

18 (v) The variance is discussed in part (i) above.

Year	System Peak (MW)	Firm Peak (MW)	Temperature (deg C)	Adjustment	WN System Peak (MW)	WN Firm Peak (MW)
2012	1882	1,740	-7.2	130	2,012	1,870
2013	2033	1,897	-12.8	18	2,051	1,915
2014	2118	2,036	-19.3	-112	2,006	1,924
2015	2015	1,874	-12.1	32	2,047	1,906
2016	2111	2,013	-14.4	-18	2,094	1,996
2017	2018	1,951	-13.3	10	2,028	1,961
2018	2073	1,993	-11.7	50	2,123	2,043
2019	2060	1,949	-15.2	113	2,173	2,062
2020	2050	1,954	-12.6	28	2,078	1,982
2021	1968	1,875	-9.9	95	2,063	1,970
2022	2165	2,021	-13.7	0	2,165	2,021
2023	2185	2,035	-13.7	0	2,185	2,035
2024	2215	2,057	-13.7	0	2,215	2,057
2025	2253	2,076	-13.7	0	2,253	2,076
2026	2291	2,101	-13.7	0	2,291	2,101
2027	2326	2,133	-13.7	0	2,326	2,133
2028	2361	2,170	-13.7	0	2,361	2,170
2029	2398	2,207	-13.7	0	2,398	2,207
2030	2434	2,243	-13.7	0	2,434	2,243
2031	2479	2,289	-13.7	0	2,479	2,289
2032	2532	2342	-13.7	0	2,532	2,342

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Request IR-15:

According to Exhibit N-34, Matter No. M10431, Response to CA IR-41, Attachment 1, NS Power has developed scaled class load shapes for 2019 using its load research sample. The Report indicates that these data have been updated through 2021 (p. 91). Loss factors used in the Report appear to be provided in Attachment 4, tab Tables, rows 87-101.

(a) Please provide the most recent scaled class load shapes, including all assumptions, source data, and methods with formulas in the workpapers intact and working.

(b) Please provide NS Power's best estimate of monthly losses by class as estimated by "comparing the sum of load research sales to system generation." (p. 91).

(c) Please explain why NS Power continues to use the loss factors based on the 2013 COSS rather than the loss factors provided in response to item (b).

(d) Please explain whether or not NS Power used the 2019 or later version of its scaled class load shapes to support models used to generate monthly energy and peak demand forecasts in the Report and the reasons for that decision.

Response IR-15:

(a) Please refer to Confidential Attachment 1, filed electronically.

(b) Monthly losses by class are not calculated for the load forecast. Please refer to Synapse IR-29 for an example of the system losses by month calculated as the difference between Net System Requirement (NSR) and scaled load research data.

(c) In the load forecast, energy related losses are not calculated at the class level, rather they are calculated at the system level as the difference between billed sales and NSR. The loss

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NSPI Responses to Consumer Advocate Information Requests

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1 factors in the table cited are used to estimate total peak losses. The load research class
2 peak estimates target is 10 percent precision at peak, so the inherent error of the load
3 research sample would be approximately the same magnitude of the estimated losses for
4 each class. Given the level of uncertainty it is preferable to maintain consistency since
5 2013 and, when available, to use AMI data to confirm LRS estimates. While 10 percent
6 was the original target precision, another issue is that each class has experienced sample
7 degradation since 2018 (mainly related to the legacy meters that continue to have their
8 phone lines disconnected as people remove landlines). Once a suitable AMI data set is
9 available an updated estimate for the losses will be produced.

- 10
- 11 (d) Load research data is used to allocate the system peak to the different classes, but has not
12 been used in the forecasting process. The purpose of the load research analysis presented
13 in page 91 of the Report was to explore a bottom-up approach to estimate class contribution
14 to peak, but this work remains exploratory.

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

**2022 Load Forecast Report CA IR-15 Attachment 1 has
been removed due to confidentiality.**

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Request IR-16:

Reference Report p. 77. We understand NS Power's argument to be as follows: Using the demand change of 25 MW/°C, the 2021 actual system firm peak of 1,875 MW is weather normalized to 2,002 MW, which is 71 MW lower than the 2021 forecast system firm peak of 2,073 MW. This difference is attributed to March 2 not being "a particularly cold day" on which the temperature dropped rapidly to the daily minimum.

(a) Please confirm or correct our understanding of the argument presented on p. 77.

(b) Please explain how the 25 MW/°C demand change estimate is used in the load forecast.

(c) Please confirm that the 25 MW/°C demand change estimate is developed based on a regression that excludes weekend data.

(d) Please identify each instance in the Report in which the 25 MW/°C demand change estimate is used to weather normalize weekend data. Please justify each such instance.

(e) Please provide any evidence that NS Power has available that the temperature in the same hour as the peak is a better measure of the impact of cold weather on peak load than the use of a multi-hour average.

Response IR-16:

(a) Confirmed.

(b) The 25 MW/°C is not used in the forecast. Please refer to CA IR-15. Weather normalized values are used to explain variance and to compare to forecast values. The adjustments are not inputs to the forecast model.

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- 1 (c) Confirmed.
- 2
- 3 (d) The only weekend peak in the series is 2018. Temperature sensitivity for weekend days is
- 4 23 MW/°C. As the difference between weekday and weekend days is small and weekend
- 5 peaks are rare, the series was simplified to use the same adjustment for all days.
- 6
- 7 (e) This analysis was not undertaken as part of the 2022 forecast.

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Request IR-17:

Respecting the Board’s direction to “evaluate improvements to the weather normalization estimate and examine the impact of incremental cold on loads in the temperature ranges where peak loads occur,” (Report, p. 12), please explain the following:

(a) Why NS Power has not made even an interim adjustment to its demand change metric or method in response to the Board’s direction. As an example (but not limited to this potential interim adjustment), relying on observations and findings found in the Wilson testimony sponsored by the CA in M10109.

(b) Please provide a list of tasks that NS Power plans to complete the Board directed updates to the load forecast report; for each task, please provide (i) the estimated time to complete the task, (ii) identify any prerequisite tasks, and (iii) identify whether the task is necessary (e.g., a prerequisite to completing the work) or recommended (e.g., research to increase confidence in the result).

Response IR-17:

(a) In M10109, the NSUARB directed as follows:

The intervenors recommended that NS Power re-evaluate the use of a low design temperate in future forecasts, to which NS Power agreed. The Board, therefore, directs NS Power to evaluate peak causing conditions and a peak forecast based on historic peak temperatures (such as a 1-in-2) in its future load forecasts, as well as add trends in peak weather in the 2022 Load Forecast Report.

NS Power agreed with the CA’s recommendation on weather normalizing and presenting a more accurate approach to estimating the impact of incremental cold on loads. Therefore, the Board directs NS Power to evaluate improvements to the weather normalization estimate and examine the impact of incremental cold on loads in the temperate ranges where peak loads occur. These updates to the forecast are to be provided

10 - Year Energy and Demand Forecast (2022 Load Forecast Report) (NSUARB M10569)
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1 in future load forecast reports, preferably in the 2022 Report, but if not
2 possible then in the 2023 Report.
3

4 For the 2022 Load Forecast Report NS Power focused on the peak causing conditions and
5 trends in peak weather, as recommended in the Wilson testimony and as directed by the
6 Board. Analysis of weather normalization and the impact of incremental cold loads will be
7 prioritized along with other recommendations for the 2023 Load Forecast.
8

9 (b) The specifics of an analysis of incremental cold loads on peak have not yet been
10 investigated, but it will be prioritized with other recommendations for the 2023 Load
11 Forecast.