

Wendover Drinking Water System

Waterworks # 260004293
System Category – Large Municipal Residential

Annual Water Report

Prepared For:
The Corporation of the Township of Alfred & Plantagenet

Reporting Period of January 1st – December 31st 2025

Issued: February 25, 2026

Revision: 0

Operating Authority:



This report has been prepared to satisfy the annual reporting requirements in O.Reg 170/03 Section 11 and Schedule 22

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Report Availability

This system serves less than 10,000 residents. The annual reports will be made available publicly to residents of The Corporation of the Township of Alfred & Plantagenet. Notification should be made available on the municipal website and copies provided free of charge if requested at the Municipal Office located at 205 Old Highway 17 PO. Box 350 Plantagenet ON K0B 1L0.

Compliance Report Card

Compliance Event	# of Events
Ministry of Environment Inspections	1 – On-site Inspection completed on September 15, 2025 There were no non-compliances identified – 100%
Ministry of Labour Inspections	0
QEMS External Audit	1 On Site Audit - 5 OFI's – 1 Minor non-conformity Desktop Audit - No actions identified
AWQI's/BWA	0
Non-Compliance	0
Community Complaints	3
Spills	0
Watermain Breaks & Repairs	1

System Process Description

Raw Source

Raw water source for the Wendover Drinking Water System is the Ottawa River as per Permit to Take Water #96-P-4096. Raw water intake consists of a 195 m long x 200 mm diameter long polyethylene pipe Intake end is equipped with coarse mesh screen. The low lift pumping station located on du Quai Ave. is equipped with three (3) horizontal centrifugal pumps (two duty, one standby), each rated at 10.5 L/s at 21 m Total Dynamic Head (TDH). A 200 mm diameter raw water transmission line from the low lift pumping station conveys raw water to the water treatment plant

Treatment

The Wendover Drinking Water System is a surface water treatment facility, rated at a maximum daily flow of 1806 m³/day for raw water higher than 1 degree Celsius and 1517 m³/day for raw water temperatures below 1 degree Celsius. The water treatment plant consists of the following components: a dual train packaged conventional filtration plant consisting of in-line mixing, coagulation, flocculation, sedimentation and filtration. Disinfection is achieved by chlorination and pH control by soda ash.

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Soda Ash	pH adjustments	Univar
Aluminium Hydroxide Sulphate (PAS-08)	Coagulant	Kemira
Polymer - Norfloc 127H	Flocculation Agent	Northland Chemical
Sodium Hypochlorite	Post Disinfection	UBA

Distribution

Water is pumped by two (2) vertical turbine high lift pumps (one duty; one standby) each rated at 19.5 L/s at 50 m TDH to the elevated storage tank with a capacity of 1940m³. Water is then conveyed to the village of Wendover.

Summary of Non-Compliance**Adverse Water Quality Incidents**

Date	AWQI #	Location	Parameter	Legislation	Corrective Action
No AWQI identified for 2025					

Non-Compliance

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
No Non-Compliance identified for 2025				

Non-Compliance Identified in a Ministry Inspection:

Legislation	requirement(s) system failed to meet	duration of the failure	Corrective Action	Status
No Non-Compliance identified for 2025				

Flows

Having a 2025 annual average treated day flow of 562 m³/day, the Wendover Drinking Water System is operating at 31% of its rated capacity of 1806 m³/day.

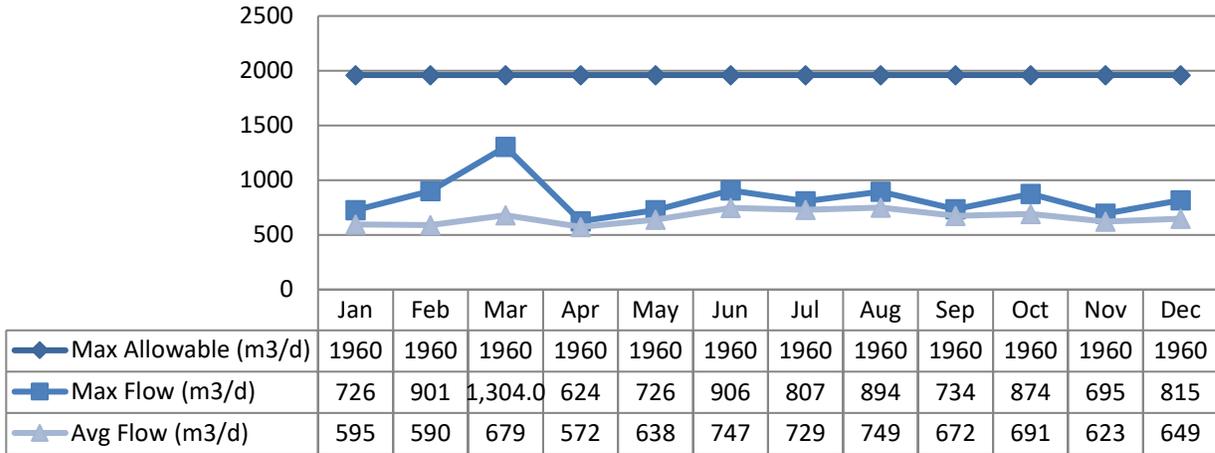
Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water Ontario Regulation 387/04. Water Taking and Transfers requires all water takers to report daily water taking amounts to the Water Taking Reporting System (WTRS) electronic database. 2025 Raw Flow Data was submitted to the Ministry

electronically under permit #96-P-4096. The confirmation and a copy of the data that was submitted are attached in Appendix A.

Total Monthly Flows (m3/d)

Max Allowable Flow - PTTW 1960 m3/d

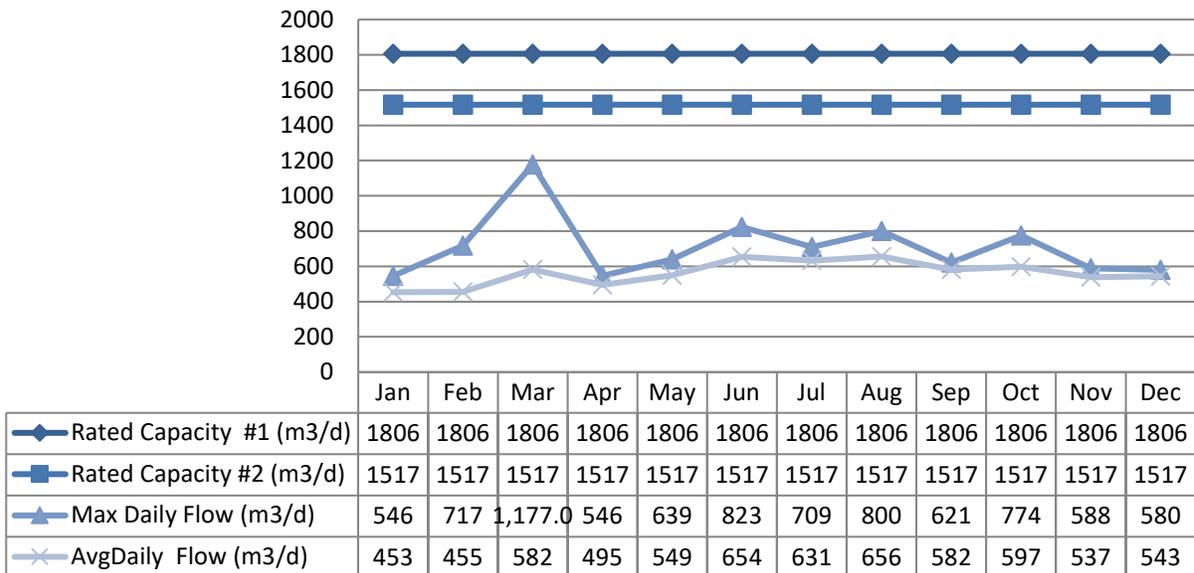


Treated Water Flows

The Treated Water flows are regulated under the Municipal Drinking Water Licence Number: 169-102 Issue Number: 4

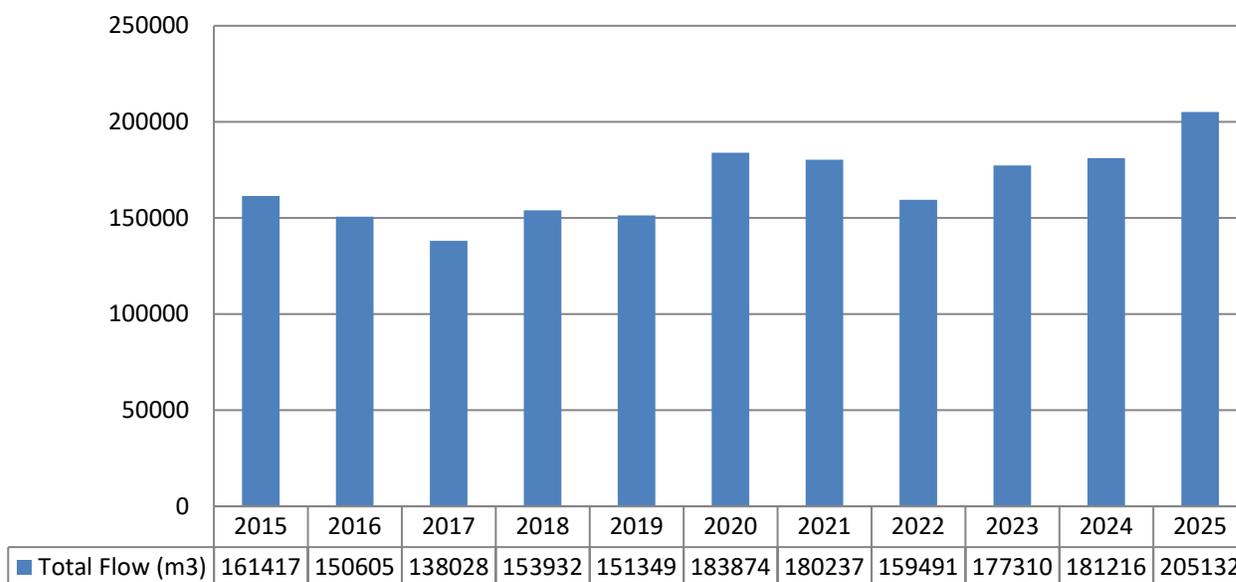
Monthly Rated Flows

Rated Capacity – MDWL WTP #1 - 1806 m3/d for raw water temperature >1°C
 #2 - 1517 m3/d for raw water temperature <1°C



Annual Total Flow Comparison

Total Annual m3



Regulatory Sample Results Summary

Microbiological Testing

	No. of Samples Collected	Range of E.Coli Results		Range of Total Coliform Results		Range of HPC Results	
		Min	Max	Min	Max	Min	Max
Raw Water	52	0	110	10	8600	N/A	N/A
Treated Water	52	0	0	0	0	<2	2
Distribution Water	156	0	0	0	0	<2	10

Operational Testing

	No. of Samples Collected	Range of Results	
		Minimum	Maximum
Turbidity, In-House (NTU) – RW	156	1.60	30.30
Turbidity, In-House (NTU) – TW	156	0.03	0.26
Turbidity, On-Line (NTU) – Filter #1	8760	0.02	1.70
Turbidity, On-Line (NTU) – Filter #2	8760	0	0.75
Free Chlorine Residual, On-Line (mg/L) – TW	8760	0.40	3.63
Free Chlorine Residual, On-Line (mg/L) – DW	8760	0.40	1.65

NOTE: spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg 170/03

Inorganic Parameters

These parameters are tested as a requirement under 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg 169/03
- BDL = Below the laboratory detection level

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Treated Water					
Antimony: Sb (ug/L) - TW	2025/07/07	< 0.1	6.0	No	No
Arsenic: As (ug/L) - TW	2025/07/07	0.2	25.0	No	No
Barium: Ba (ug/L) - TW	2025/07/07	3.0	1000.0	No	No
Boron: B (ug/L) - TW	2025/07/07	6.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2025/07/07	< 0.015	5.0	No	No
Chromium: Cr (ug/L) - TW	2025/07/07	< 1.0	50.0	No	No
Mercury: Hg (ug/L) - TW	2025/07/07	0.02	1.0	No	No
Selenium: Se (ug/L) - TW	2025/07/07	< 1.0	50.0	No	No
Uranium: U (ug/L) - TW	2025/07/07	< 0.05	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2024/01/17	<0.1	1.5	No	No
Nitrite (mg/L) - TW	2025/01/14	0.06	1.0	No	No
Nitrite (mg/L) - TW	2025/04/07	< 0.05	1.0	No	No
Nitrite (mg/L) - TW	2025/07/07	< 0.05	1.0	No	No
Nitrite (mg/L) - TW	2025/10/06	< 0.05	1.0	No	No
Nitrate (mg/L) - TW	2025/01/14	0.33	10.0	No	No
Nitrate (mg/L) - TW	2025/04/07	0.38	10.0	No	No
Nitrate (mg/L) - TW	2025/07/07	0.24	10.0	No	No
Nitrate (mg/L) - TW	2025/10/06	0.32	10.0	No	No
Sodium: Na (mg/L) - TW	2022/09/15	24.20	20*	N/A	N/A
Sodium: Na (mg/L) - TW	2022/09/20	23.10	20*	N/A	N/A

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified mg/L when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg 170/03. This system is under reduced sampling. No plumbing samples were collected. Lead was collected in 2025 and will be sampled again in 2028.

Distribution System	Number of Sampling Points	Number of Samples	Range of Results		MAC (mg/L)	Number of Exceedances
			Minimum	Maximum		
Alkalinity (mg/L)	2	6	32	45	N/A	N/A
pH	2	4	6.6	7.1	N/A	N/A

Distribution System	Number of Sampling Points	Number of Samples	Range of Results		MAC (mg/L)	Number of Exceedances
			Minimum	Maximum		
Lead (mg/L)	2	2	0.00016	0.00004	0.01	0

Organic Parameters

These parameters are tested annually as a requirement under O.Reg 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. Exceedances	
				MAC	1/2 MAC
Treated Water					
Alachlor (ug/L) - TW	2025/07/07	< 0.3	5.0	No	No
Azinphos-methyl (ug/L) - TW	2025/07/07	< 1.0	20.0	No	No
Benzene (ug/L) - TW	2025/07/07	< 0.5	1.0	No	No
Benzo(a)pyrene (ug/L) - TW	2025/07/07	< 0.011	0.01	No	No
Bromoxynil (ug/L) - TW	2025/07/07	< 0.5	5.0	No	No
Carbaryl (ug/L) - TW	2025/07/07	< 3.0	90.0	No	No
Carbofuran (ug/L) - TW	2025/07/07	< 1.0	90.0	No	No
Carbon Tetrachloride (ug/L) - TW	2025/07/07	< 0.2	2.0	No	No
Chlorpyrifos (ug/L) - TW	2025/07/07	< 0.5	90.0	No	No
Diazinon (ug/L) - TW	2025/07/07	< 1.0	20.0	No	No
Dicamba (ug/L) - TW	2025/07/07	< 1.0	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW	2025/07/07	< 0.5	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW	2025/07/07	< 0.5	5.0	No	No
1,2-Dichloroethane (ug/L) - TW	2025/07/07	< 0.5	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW	2025/07/07	< 0.5	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2025/07/07	< 5.0	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW	2025/07/07	< 0.2	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2025/07/07	< 1.0	100.0	No	No
Diclofop-methyl (ug/L) - TW	2025/07/07	< 0.9	9.0	No	No
Dimethoate (ug/L) - TW	2025/07/07	< 1.0	20.0	No	No
Diquat (ug/L) - TW	2025/07/07	< 5.0	70.0	No	No
Diuron (ug/L) - TW	2025/07/07	< 5.0	150.0	No	No
Glyphosate (ug/L) - TW	2025/07/07	< 25.0	280.0	No	No
Malathion (ug/L) - TW	2025/07/07	< 5.0	190.0	No	No
Metolachlor (ug/L) - TW	2025/07/07	< 3.0	50.0	No	No
Metribuzin (ug/L) - TW	2025/07/07	< 3.0	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2025/07/07	< 0.5	80.0	No	No
Paraquat (ug/L) - TW	2025/07/07	< 1.0	10.0	No	No
PCB (ug/L) - TW	2025/07/07	< 0.05	3.0	No	No
Pentachlorophenol (ug/L) - TW	2025/07/07	< 0.2	60.0	No	No
Phorate (ug/L) - TW	2025/07/07	< 0.4	2.0	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. Exceedances	
				MAC	1/2 MAC
Treated Water					
Picloram (ug/L) - TW	2025/07/07	< 5.0	190.0	No	No
Prometryne (ug/L) - TW	2025/07/07	< 0.1	1.0	No	No
Simazine (ug/L) - TW	2025/07/07	< 0.5	10.0	No	No
Terbufos (ug/L) - TW	2025/07/07	< 0.5	1.0	No	No
Tetrachloroethylene (ug/L) - TW	2025/07/07	< 0.5	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2025/07/07	< 0.2	100.0	No	No
Triallate (ug/L) - TW	2025/07/07	< 10.0	230.0	No	No
Trichloroethylene (ug/L) - TW	2025/07/07	< 0.5	5.0	No	No
2,4,6-Trichlorophenol (ug/L) – TW	2025/07/07	< 0.2	5.0	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA) ug/L) - TW	2025/07/07	< 10.0	100.0	No	No
Trifluralin (ug/L) – TW	2025/07/07	< 0.5	45.0	No	No
Vinyl Chloride (ug/L) – TW	2025/07/07	< 0.2	1.0	No	No
Distribution Water – Running Average					
Trihalomethane: Total (ug/L) Annual Average - DW	2025/10/6	72	100	No	Yes
HAA Total (ug/L) Annual Average – DW	2025/10/6	51	80	No	Yes

MAC = Maximum Allowable Concentration as per O.Reg 169/03

MDL = Minimum detection limit

Additional Samples

There was no additional sampling required.

Major Maintenance Summary

Water Treatment Plant Maintenance

Date	Description
2025	Minor repairs on chemical pumps throughout the year as needed as well as PLC adjustments
February 2	Media inspection
March 21	Replace mixer motor on filter #1
September 19	Flow meter calibration
September 19	Meter Flow Backwash Water Calibration/Service
September 29	Analyzer Turbidity Inspection/Service
November 3	ESA Inspection and recommendation completed
December 15	Analyzer pH Effluent calibration
December 24	SCADA computer upgrade
December 24	Backwash pump rebuilt

Distribution Maintenance

Date	Location Reference	Description
May 1	Wendover Distribution	Spring hydrant flushing
September 29	Chambord to Chantigny	Watermain commissioning
October 29	Wendover Distribution	Fall hydrant flushing
November 3	Water Tower	Water tower inspection
November 4	3211 Principal	Flow tested hydrant
November 9	Wendover Distribution	Service repair

Appendix A - WTRS Data and Submission Confirmation



Ministry of the Environment,
Conservation and Parks

| [WT DATA](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#) WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 96-P-4096
Permit Holder: NORTH PLANTAGENET, CORP. OF THE TOWNSHIP.
Received on: Feb 13, 2026 11:08 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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VERONIQUE VANDERGOTEN | 2026/02/13
version: v5.0.0.01 (build#: 28)
Last modified: 2021/09/22

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WENDOVER DRINKING WATER SYSTEM / Raw Water

Yearly Summary (Flow) 2025

Report extracted 02/24/2026 09:14

Annual Values and Summary

Units: cubic meter per day

Station:

Daily Max:

1304.0 on March 19

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	627.00	726.00	901.00	472.00	536.00	705.00	766.00	663.00	685.00	690.00	695.00	629.00
2	603.00	726.00	901.00	573.00	673.00	656.00	656.00	663.00	641.00	690.00	695.00	629.00
3	599.00	573.00	458.00	573.00	673.00	656.00	656.00	780.00	641.00	712.00	617.00	652.00
4	599.00	573.00	458.00	590.00	673.00	899.00	746.00	780.00	641.00	712.00	617.00	652.00
5	599.00	587.00	458.00	590.00	595.00	899.00	746.00	775.00	635.00	712.00	620.00	640.00
6	586.00	587.00	661.00	590.00	595.00	906.00	746.00	775.00	635.00	656.00	620.00	640.00
7	586.00	647.00	759.00	576.00	599.00	906.00	645.00	775.00	635.00	656.00	633.00	640.00
8	592.00	647.00	759.00	576.00	599.00	906.00	645.00	854.00	620.00	624.00	633.00	630.00
9	592.00	647.00	759.00	515.00	646.00	788.00	645.00	854.00	620.00	624.00	633.00	630.00
10	595.00	504.00	490.00	515.00	646.00	788.00	644.00	854.00	711.00	607.00	609.00	583.00
11	595.00	504.00	490.00	598.00	646.00	678.00	788.00	894.00	711.00	607.00	609.00	583.00
12	595.00	598.00	508.00	598.00	726.00	678.00	788.00	894.00	734.00	702.00	588.00	676.00
13	603.00	598.00	508.00	598.00	726.00	738.00	788.00	797.00	734.00	702.00	558.00	676.00
14	603.00	590.00	617.00	561.00	640.00	738.00	736.00	797.00	734.00	673.00	621.00	676.00
15	588.00	590.00	617.00	561.00	640.00	738.00	736.00	696.00	625.00	673.00	621.00	638.00
16	588.00	645.00	617.00	561.00	679.00	788.00	766.00	696.00	625.00	874.00	621.00	638.00
17	591.00	645.00	1271.00	622.00	679.00	788.00	766.00	696.00	728.00	874.00	532.00	590.00
18	591.00	565.00	1271.00	622.00	590.00	728.00	709.00	754.00	728.00	874.00	532.00	590.00
19	591.00	565.00	1304.00	534.00	590.00	728.00	709.00	754.00	668.00	874.00	613.00	606.00
20	618.00	565.00	1304.00	534.00	598.00	710.00	709.00	700.00	668.00	677.00	613.00	606.00
21	618.00	704.00	483.00	534.00	598.00	710.00	698.00	700.00	668.00	677.00	629.00	606.00
22	592.00	704.00	483.00	547.00	598.00	710.00	698.00	792.00	673.00	610.00	629.00	815.00
23	592.00	704.00	483.00	547.00	612.00	672.00	642.00	792.00	673.00	610.00	629.00	815.00
24	624.00	304.00	597.00	547.00	612.00	672.00	642.00	792.00	677.00	677.00	673.00	682.00
25	624.00	304.00	597.00	618.00	612.00	787.00	794.00	748.00	677.00	677.00	673.00	682.00
26	624.00	304.00	540.00	618.00	651.00	787.00	794.00	748.00	664.00	677.00	628.00	682.00
27	590.00	511.00	540.00	618.00	651.00	625.00	794.00	575.00	664.00	670.00	628.00	683.00
28	590.00	901.00	583.00	624.00	642.00	625.00	762.00	575.00	664.00	670.00	636.00	683.00
29	469.00		583.00	624.00	642.00	625.00	762.00	682.00	695.00	620.00	636.00	654.00
30	469.00		583.00	536.00	705.00	766.00	807.00	682.00	695.00	620.00	636.00	654.00
31	726.00		472.00		705.00		807.00	685.00		695.00		544.00
Min	469.00	304.00	458.00	472.00	536.00	625.00	642.00	575.00	620.00	607.00	532.00	544.00
Mean	595.45	589.93	679.19	572.40	637.97	746.67	728.71	749.10	672.30	690.84	622.57	648.52
Max	726.00	901.00	1304.00	624.00	726.00	906.00	807.00	894.00	734.00	874.00	695.00	815.00