



# Monthly Operating Report

September: 2020

So. Sangamon  
Water Commission  
October 19th, 2020

# SSWC

9199 Buckhart Rd Rochester IL 62563

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## EXECUTIVE SUMMARY

**Safety.** Safety is the number one priority at South Sangamon. We have instituted a monthly safety meeting for operations staff at the plant. There were no lost time accidents in the month of September 2020.

**Compliance.** The finished water quality was within regulatory limits and all reporting and sampling requirements were met for the month. A copy of the Operations Report submitted to the Illinois Environmental Protection Agency is available at [www.sswc.us](http://www.sswc.us).

During the month of September 2020, the plant pumped 51.068 million gallons from the well field and 41.073 million gallons of finished water. This is 4.44 million gallons more than September of 2019.

The SSWC plant has been placed on Critical Review status. Systems on Critical Review will be evaluated for sufficient capacity before issuance of water main extension permits. The Critical Review is currently under review.

**Operations.** There was 1 emergency call-outs for the month. There were numerous customer inquiry for the month.

**Maintenance and Repair.** For the month of September 2020, there were 30 inspections, 3 preventative and 3 corrective maintenance activity completed.

**Budget.** Passed at May 18<sup>th</sup> 2020 meeting.

### **Capital Planning.**

BOP CPU replacement

Chloramines Project

New Berlin Meter relocation.

Chatham emergency interconnect

# 1. SAFETY

## 1.1 SAFETY TRAINING

At South Sangamon we strive to provide a safe working environment for all employees. This is accomplished with daily safety meetings and open communication.

## 1.2 LOST TIME ACCIDENTS

There were 0 lost time accidents in the month of September 2020.

## 1.3 SAFETY AUDIT

No safety audits to date.

## 1.4 MISCELLANEOUS SAFETY

No notable safety issues

## 2. COMPLIANCE, FLOWS AND LOADINGS

### 2.1 COMPLIANCE

The finished water quality was within regulatory limits and all Bacteriological testing was completed for the month of September. A copy of the Operations Report to the Illinois Environmental Protection Agency (IEPA) is available on the SSWC website.

### 2.2 INFLUENT FLOWS AND LOADINGS

The total gallons pumped from the well field were 51.068 MG. The influent parameters were all within the normal range.

The influent flow and loadings are summarized below in Table 2.2

| Table 2.2 Influent Concentrations and Flow |     |      |      |           |          |          |            |                       |
|--|-----|------|------|-----------|----------|----------|------------|-----------------------|
|  | pH  | Temp | Iron | Manganese | Fluoride | Hardness | Alkalinity | Well Flow Gals (MGD). |
| <b>Max.</b>                                | 8.2 | 17.3 | 1.58 | .318      | -        | 380      | 290        | 2.118                 |
| <b>Min.</b>                                | 7.9 | 15.1 | .54  | .176      | -        | 340      | 278        | 1.405                 |
| <b>Avg.</b>                                | 8.0 | 16.0 | .84  | .242      | -        | 353      | 282        | 1.702                 |
| <b>Total</b>                               | -   | -    | -    | -         | -        | -        | -          | 51.068                |

### 2.3 EFFLUENT CONCENTRATIONS

The facility filtered 45.982 MG during the month with a daily average of 1.533 MG and a min/max 1.241/ 1.905 MG.

| Table 2.3 Finished Water Quality |          |           |     |      |      |           |          |          |            |           |
|----------------------------------|----------|-----------|-----|------|------|-----------|----------|----------|------------|-----------|
|                                  | Free CL2 | Total CL2 | pH  | Temp | Iron | Manganese | Fluoride | Hardness | Alkalinity | Phosphate |
| <b>Max.</b>                      | 2.25     | 2.28      | 8.6 |      | 0.04 | 0.078     | .93      | 270      | 320        | 1.88      |
| <b>Min.</b>                      | 1.46     | 1.49      | 8.3 |      | 0.01 | 0.001     | 0.53     | 100      | 270        | 1.43      |
| <b>Avg.</b>                      | 1.92     | 2.00      | 8.4 |      | 0.02 | 0.028     | 0.71     | 138      | 280        | 1.64      |
| <b>MCL</b>                       | -        | -         | -   | -    | 1.00 | -         | 4.00     | -        | -          | -         |
| <b>SMCL</b>                      | -        | -         | -   | -    | 0.30 | 0.050     | 2.00     | -        | -          | -         |

## Finished Water Flow Comparison for FY 2019-20

| Time Period                            | 2019-2020   | 2018-2019   | 2017-2018   |
|--|-------------|-------------|-------------|
| Oct 2019-Sept 2020                     | 386,741,198 | 359,353,556 | 380,888,146 |
| Increase for the same period last year |             | 27.4 MG     | - 21.5 MG   |

| FINISHED WATER PUMPING HISTORY |             |             |             |             |             |             |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                | 2019-20     | 2018-19     | 2017-18     | 2016-17     | 2015-16     | 2014-15     |
| Oct                            | 30,769,238  | 30,353,482  | 33,506,605  | 34,374,820  | 34,783,455  | 28,803,052  |
| Nov                            | 30,877,400  | 30,464,000  | 28,617,333  | 30,478,309  | 27,217,293  | 28,426,579  |
| Dec                            | 29,703,954  | 31,930,000  | 28,808,037  | 32,525,530  | 27,788,637  | 28,656,869  |
| Jan                            | 30,073,516  | 28,823,375  | 30,556,824  | 30,449,215  | 28,510,121  | 30,346,721  |
| Feb                            | 28,797,693  | 28,625,431  | 25,617,914  | 27,373,232  | 26,095,228  | 26,336,077  |
| Mar                            | 30,339,298  | 31,237,000  | 28,217,699  | 30,068,363  | 27,851,811  | 28,729,919  |
| Apr                            | 31,542,650  | 28,418,249  | 27,110,578  | 29,625,797  | 29,292,618  | 29,270,184  |
| May                            | 34,673,848  | 33,045,927  | 33,304,196  | 32,120,873  | 33,349,391  | 33,371,016  |
| June                           | 17,414,377  | 33,460,303  | 34,040,000  | 39,931,402  | 41,541,321  | 31,092,539  |
| July                           | 44,237,066  | 23,742,374  | 41,178,722  | 42,164,927  | 35,378,396  | 33,123,375  |
| Aug                            | 39,638,063  | 25,018,633  | 35,176,238  | 38,760,634  | 35,401,490  | 38,109,133  |
| Sept                           | 38,674,095  | 34,234,782  | 34,754,000  | 39,896,986  | 36,325,215  | 36,546,171  |
|                                | -----       | -----       | -----       | -----       | -----       | -----       |
| Totals                         | 386,741,198 | 359,353,556 | 380,888,146 | 407,770,088 | 383,534,976 | 372,811,635 |
| Avg                            | 1.06 MGD    | .985 MGD    | 1.04 MGD    | 1.1 MGD     | 1.05 MGD    | 1.0 MGD     |
|                                |             |             |             |             |             |             |
|                                |             |             |             |             |             |             |

## 2.4 LAGOON DISCHARGE CONCENTRATIONS

The results for the NPDES lagoon discharge permit are summarized below.

Table 2.4 Weekly Grab Sample Analysis Results

| Lagoon Effluent Results  |              |              |                 |                        |                |            |
|--------------------------|--------------|--------------|-----------------|------------------------|----------------|------------|
| Date                     | Fe (mg/l)    | Mn (mg/l)    | Chloride (mg/l) | Cl <sup>2</sup> (mg/l) | pH (S.U.)      | TSS (mg/l) |
| September 4th 2020       | .18          | .641         | 430             | 0.05                   | 8.3            | 4.8        |
| Minimum                  | .18          | .641         | 430             | 0.05                   | 8.3            | 4.8        |
| Maximum                  | .18          | .641         | 430             | 0.05                   | 8.3            | 4.8        |
| Average                  | .18          | .641         | 430             | 0.05                   | 8.3            | 4.8        |
| <b>Monthly Avg Limit</b> | <b>2.000</b> | <b>1.000</b> |                 |                        |                | <b>15</b>  |
| <b>Daily Limit</b>       | <b>4.000</b> | <b>2.000</b> | <b>500</b>      | <b>0.05</b>            | <b>6.0-9.0</b> | <b>30</b>  |

The Chloride sample for the month, performed by the Springfield Metropolitan Sanitary District, was below 30,000 mg/l for the month of September 2020. The limit for chloride discharge to the sanitary district is 30,000 mg/L.



## 3. OPERATIONS

### 3.1 EVENTS IMPACTING OPERATIONS

There was 1 incident that impacted the operation of the plant.

### 3.2 EMERGENCY & SERVICE CALLS

#### **Service Calls:**

- There was 0 emergency call out for the month.

### 3.3 EMERGENCY CALL-OUTS

There was 1 emergency call out for the month of September

### 3.4 CUSTOMER INQUIRIE

There were numerous customer inquiries.

#### **OTHER WORK PERFORMED**

Trouble shooting of new train

Trouble shooting of CIP skid and CIP procedure

Inspected distribution mains

Consulted with new customers.

Flushed raw water line

Created customer info database

Fixed air leak

Serviced and repaired air compressors

Inspected booster station



On september 2, sswc personnel received a low air pressure alarm. Upom rerturning to the plant it was discovered that the bolts on the flange that feed air to the air scour system had loosened. This allowed the gasket to push out under pressure.



SCADAware has been onsite installing the program to operate the filter trains and assessing the plant to build a todo list for sswc. The licensing for our program is still in the process of being worked out.



Replacement transfer switch has arrived from UUSCO. We are awaiting installation.



Original transfer switch has been returned following inspection.

## 4. MAINTENANCE AND REPAIR

### 4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of September 2020, there were 30 inspections, 12 preventative and 3 corrective maintenance activity completed.

### 4.2 CORRECTIVE REPAIR

Pulling and cleaning pre filters on all 3 filter trains on weekly basis

CIP train 1,2 and 3

Cleaned lagoon vegetation

Repaired flange in air control system

Restarted booster station

## 5. PROJECT MANAGEMENT & SUPPORT

### 5.1 STAFFING & TRAINING

- With the addition of a new staff member training has been continuous and ongoing.
- Operator and Asst. Operator have been studying for EPA licensing test.

### 5.2 OPERATIONAL SUPPORT

The following individuals, either on-site or remotely, provided assistance in operation and/or maintenance of the plant during the month of September 2020.

- Kevin Canham
- Stephen Bivin
- Katie Krall
- SCADAware
- Chris Usinger (Kirby Risk)





## 5.3 BUDGET

Table 5.3 Operating Budget

Table 5.3 Budget Table

| Budget Category            | Month Budget       | Month Actual | YTD Budget          | YTD Actual       | Annual Budget    |
|----------------------------|--------------------|--------------|---------------------|------------------|------------------|
| Labor (D.L. + OH)          | \$14,120.14        | ?            | \$28,633            | \$32,751         | \$171,795        |
| Utilities                  | \$8,038.36         |              | \$16,300            | \$16,546         | \$97,800         |
| Chemicals                  | \$21,698.30        |              | \$44,000            | \$26,292         | \$264,000        |
| Maintenance & Repair       | \$13,227.70        |              | \$19,400.62         | \$55,819         | \$160,937        |
| Chloride                   | \$12,979.73        |              | \$26,320            | \$19,720         | \$157,920        |
| Lab Supplies and Equipment | \$1,856.22         |              | \$3,764             | \$2,372          | \$22,584         |
| Office Supplies            | \$213.04           |              | \$432               | \$155            | \$2,592          |
| Miscellaneous Expenses*    | \$                 |              | \$                  | ?                | \$500            |
| Other Operating Costs      | \$                 | ?            | \$                  | \$6107           | \$               |
| Engineering Fees           | \$2,465.75         |              | <b>\$5000</b>       | <b>\$234</b>     | \$30,000         |
| Office Equipment rental    | \$65               |              | \$130               | \$217            | \$780            |
| Locates                    | \$372.82           | 0            | \$756               | \$1,415          | \$4536           |
| Truck                      | \$3,287.67         | 0            | \$6,667             | \$131            | \$40,000         |
| <b>Total</b>               | <b>\$78,324.73</b> | <b>\$</b>    | <b>\$125,108.94</b> | <b>\$161,759</b> | <b>\$953,444</b> |

\*as of June 30<sup>th</sup> 2020

## 6. CAPITAL PLANNING

### 6.1 APPROVED CIP PROJECTS CURRENT STATUS

New Berlin Meter master meter relocation project is commencing. Engineering and relocation plans have been finalized. Awaiting ground breaking.

Pigging project construction complete. Awaiting first pigging before completely releasing contractor.

BOP CPU replace is in the planning phase

Benton and Assoc has initiated the planning phase of the Chatham Emergency interconnect.

### 6.2 DRAFT CAPITAL IMPROVEMENT PLAN

The CIP is a planning document that includes all projects anticipated to exceed \$5,000 in cost over the next five years. The CIP is an ongoing process and will be refined from time to time as projects are completed and new issues are identified.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT

South Sangamon Water Commission - IL 1670080  
September 2019

| Pumping Totals |        |       |        |        |        |        |        |        |  | Chemicals Applied   |         |                     |      |                     |         |                  |         |                 |         | UF Filters |         |                       |         |                               |       |       |            |                |                | Softeners  |        |        |        |              |       |       |       |        |      |       |      |      |      |      |      |      |      |
|----------------|--------|-------|--------|--------|--------|--------|--------|--------|--|---------------------|---------|---------------------|------|---------------------|---------|------------------|---------|-----------------|---------|------------|---------|-----------------------|---------|-------------------------------|-------|-------|------------|----------------|----------------|--|--------|--------|--------|--------------|-------|-------|-------|--------|------|-------|------|------|------|------|------|------|------|
| Date           | Time   | Hours | Raw    | Well   | UF     | Plant  | HS     | Lagoon |  | Sodium Permanganate |         | Sodium Bisulfite BW |      | Sodium Hypochlorite |         | Ammonium Sulfate |         | Fluorostic Acid |         | Phosphate  |         | Sodium Bisulfite Pond |         | Hours since previous backwash |       |       | Wash Water | Water Softened | Water Bypassed | Each day indicate total number of hours since previous regeneration. |        |        |        | Regeneration |       |       |       |        |      |       |      |      |      |      |      |      |      |
| Read           | Filter | Run   | (Mgal) | (Mgal) | (Mgal) | (Mgal) | (Mgal) | (Mgal) |  | Amt                 | Used    | Calc                | Used | Calc                | Used    | Calc             | Used    | Amt             | Used    | Calc       | Used    | Amt                   | Used    | Calc                          | Used  | 1     | 2          | 3              | 4              | (Mgal)   | (Mgal) | (Mgal) | 1      | 2            | 3     | 4     | Used  | Washed |      |       |      |      |      |      |      |      |      |
|                |        |       |        |        |        |        |        |        |  | lbs.                | lbs.    | mg/l                | mg/l | mg/l                | mg/l    | mg/l             | mg/l    | lbs.            | lbs.    | mg/l       | mg/l    | mg/l                  | mg/l    | mg/l                          | mg/l  | 1     | 2          | 3              | 4              |  |        |        |        |              |       |       |       | lbs.   | Gal. |       |      |      |      |      |      |      |      |
| 1              | 7:00   |       | 19.9   | 1.972  | 1.784  | 0.020  | 1.596  | 0.120  |  | 20                  | 0.24    | 0.00                | 372  | 3.13                | 0.00    | 34               | 0.49    | 20              | 0.50    | 22         | 8.81    | 0.66                  | 0.66    | 0.66                          | 0.115 |       |            |                |                | 1.784  |        |        | 30.0   |              |       | 2281  | 10850 |        |      |       |      |      |      |      |      |      |      |
| 2              | 7:00   |       | 15.8   | 1.534  | 1.451  | 0.009  | 1.203  | 0.110  |  | 0.00                | 283     | 2.92                | 0.00 | 32                  | 0.81    | 22               | 0.72    | 30              | 13.06   | 0.66       | 0.66    | 0.66                  | 0.091   |                               |       |       |            |                |                | 1.451  | 50.0   | 31.0   | 32.0   | 32.0         | 9124  | 43400 |       |        |      |       |      |      |      |      |      |      |      |
| 3              | 7:00   |       | 18.0   | 1.740  | 1.415  | 0.016  | 1.405  | 0.098  |  | 23                  | 0.32    | 0.00                | 276  | 2.92                | 0.00    | 33               | 0.54    | 27              | 0.76    | 19         | 9.34    | 0.66                  | 0.66    | 0.66                          | 0.088 |       |            |                |                | 1.415  |        |        | 34.0   |              |       | 32.0  | 4562  | 21700  |      |       |      |      |      |      |      |      |      |
| 4              | 7:00   |       | 17.1   | 1.702  | 1.588  | 0.008  | 1.379  | 0.119  |  | 26                  | 0.37    | 0.00                | 303  | 2.81                | 0.00    | 41               | 0.88    | 35              | 1.00    | 23         | 9.28    | 0.66                  | 0.66    | 0.66                          | 0.100 |       |            |                |                | 1.588  | 44.0   | 33.0   | 28.0   | 29.0         | 9124  | 43400 |       |        |      |       |      |      |      |      |      |      |      |
| 5              | 7:00   |       | 17.5   | 1.729  | 1.627  | 0.018  | 1.443  | 0.122  |  | 25                  | 0.35    | 0.00                | 313  | 2.88                | 0.00    | 34               | 0.84    | 15              | 0.41    | 27         | 10.60   | 0.66                  | 0.66    | 0.66                          | 0.103 |       |            |                |                | 1.627  | 21.0   | 27.0   | 27.0   | 27.0         | 9124  | 43400 |       |        |      |       |      |      |      |      |      |      |      |
| 6              | 7:00   |       | 19.3   | 1.904  | 1.686  | 0.020  | 1.518  | 0.121  |  | 21                  | 0.26    | 0.00                | 330  | 2.92                | 0.00    | 36               | 0.54    | 15              | 0.39    | 27         | 10.67   | 0.66                  | 0.66    | 0.66                          | 0.107 |       |            |                |                | 1.686  | 23.0   | 28.0   | 27.0   |              |       | 6843  | 32550 |        |      |       |      |      |      |      |      |      |      |
| 7              | 7:00   |       | 18.3   | 1.919  | 1.635  | 0.014  | 1.461  | 0.118  |  | 32                  | 0.40    | 0.00                | 321  | 2.94                | 0.00    | 45               | 0.70    | 21              | 0.57    | 34         | 13.87   | 0.66                  | 0.66    | 0.66                          | 0.108 |       |            |                |                | 1.635  |        |        | 28.0   |              |       | 31.0  | 4562  | 21700  |      |       |      |      |      |      |      |      |      |
| 8              | 7:00   |       | 18.6   | 1.770  | 1.680  | 0.010  | 1.490  | 0.122  |  | 18                  | 0.24    | 0.00                | 202  | 1.80                | 0.00    | 30               | 0.46    | 15              | 0.40    | 28         | 10.97   | 0.66                  | 0.66    | 0.66                          | 0.108 |       |            |                |                | 1.680  | 54.0   | 28.0   | 29.0   | 6843         | 32550 |       |       |        |      |       |      |      |      |      |      |      |      |
| 9              | 7:00   |       | 18.1   | 1.824  | 1.604  | 0.015  | 1.408  | 0.125  |  | 4                   | 0.05    | 0.00                | 235  | 2.20                | 0.00    | 32               | 0.52    | 20              | 0.36    | 25         | 9.56    | 0.66                  | 0.66    | 0.66                          | 0.111 |       |            |                |                | 1.604  |        |        | 33.0   | 31.0         | 36.0  | 6843  | 32550 |        |      |       |      |      |      |      |      |      |      |
| 10             | 7:00   |       | 15.5   | 1.474  | 1.419  | 0.015  | 1.203  | 0.102  |  | 19                  | 0.31    | 0.00                | 189  | 2.00                | 0.00    | 27               | 0.51    | 20              | 0.66    | 20         | 9.44    | 0.66                  | 0.66    | 0.66                          | 0.092 |       |            |                |                | 1.419  | 43.0   | 36.0   |        |              |       | 4562  | 21700 |        |      |       |      |      |      |      |      |      |      |
| 11             | 7:00   |       | 14.8   | 1.405  | 1.338  | 0.012  | 1.129  | 0.095  |  | 19                  | 0.32    | 0.00                | 221  | 2.47                | 0.00    | 32               | 0.65    | 24              | 0.84    | 20         | 10.14   | 0.66                  | 0.66    | 0.66                          | 0.085 |       |            |                |                | 1.338  |        |        | 36.0   | 39.0         | 4562  | 21700 |       |        |      |       |      |      |      |      |      |      |      |
| 12             | 7:00   |       | 16.5   | 1.480  | 1.348  | 0.008  | 1.238  | 0.089  |  | 29                  | 0.47    | 0.00                | 297  | 3.30                | 0.00    | 42               | 0.77    | 43              | 1.37    | 38         | 20.58   | 0.66                  | 0.66    | 0.66                          | 0.079 |       |            |                |                | 1.348  |        |        | 37.0   | 37.0         |       | 4562  | 21700 |        |      |       |      |      |      |      |      |      |      |
| 13             | 7:00   |       | 15.1   | 1.519  | 1.416  | 0.013  | 1.211  | 0.103  |  | 18                  | 0.28    | 0.00                | 179  | 1.89                | 0.00    | 26               | 0.49    | 37              | 1.21    | 16         | 7.42    | 0.66                  | 0.66    | 0.66                          | 0.089 |       |            |                |                | 1.416  |        |        | 33.0   | 33.0         | 34.0  | 6843  | 32550 |        |      |       |      |      |      |      |      |      |      |
| 14             | 7:00   |       | 15.6   | 1.572  | 1.266  | 0.011  | 1.250  | 0.093  |  | 14                  | 0.21    | 0.00                | 238  | 2.82                | 0.00    | 24               | 0.44    | 43              | 1.36    | 19         | 9.84    | 0.66                  | 0.66    | 0.66                          | 0.083 |       |            |                |                | 1.266  | 94.0   |        |        |              |       | 35.0  | 4562  | 21700  |      |       |      |      |      |      |      |      |      |
| 15             | 7:00   |       | 15.4   | 1.524  | 1.466  | 0.012  | 1.234  | 0.107  |  | 19                  | 0.30    | 0.00                | 279  | 2.81                | 0.00    | 30               | 0.45    | 59              | 1.89    | 25         | 11.17   | 0.66                  | 0.66    | 0.66                          | 0.093 |       |            |                |                | 1.466  |        |        | 37.0   | 38.0         | 34.0  | 6843  | 32550 |        |      |       |      |      |      |      |      |      |      |
| 16             | 7:00   |       | 15.4   | 1.542  | 1.288  | 0.012  | 1.229  | 0.102  |  | 22                  | 0.34    | 0.00                | 243  | 2.81                | 0.00    | 31               | 0.57    | 9               | 0.29    | 26         | 12.18   | 0.66                  | 0.66    | 0.66                          | 0.088 |       |            |                |                | 1.288  | 51.0   | 32.0   | 30.0   |              |       | 6843  | 32550 |        |      |       |      |      |      |      |      |      |      |
| 17             | 7:00   |       | 17.7   | 1.686  | 1.437  | 0.016  | 1.344  | 0.105  |  | 23                  | 0.33    | 0.00                | 270  | 2.92                | 0.00    | 44               | 0.75    | 18              | 0.53    | 29         | 13.20   | 0.66                  | 0.66    | 0.66                          | 0.091 |       |            |                |                | 1.437  | 25.0   | 31.0   | 33.0   | 6843         | 32550 |       |       |        |      |       |      |      |      |      |      |      |      |
| 18             | 7:00   |       | 16.3   | 1.622  | 1.588  | 0.017  | 1.303  | 0.108  |  | 18                  | 0.27    | 0.00                | 298  | 2.81                | 0.00    | 23               | 0.40    | 11              | 0.33    | 30         | 13.37   | 0.66                  | 0.66    | 0.66                          | 0.098 |       |            |                |                | 1.588  |        |        | 32.0   | 32.0         | 32.0  | 4562  | 21700 |        |      |       |      |      |      |      |      |      |      |
| 19             | 7:00   |       | 17.3   | 1.682  | 1.377  | 0.008  | 1.384  | 0.099  |  | 24                  | 0.34    | 0.00                | 255  | 2.82                | 0.00    | 32               | 0.53    | 15              | 0.44    | 21         | 11.37   | 0.66                  | 0.66    | 0.66                          | 0.079 |       |            |                |                | 1.377  |        |        | 35.0   | 32.0         |       | 4562  | 21700 |        |      |       |      |      |      |      |      |      |      |
| 20             | 7:00   |       | 16.0   | 1.626  | 1.537  | 0.013  | 1.244  | 0.095  |  | 25                  | 0.37    | 0.00                | 288  | 2.82                | 0.00    | 35               | 0.64    | 16              | 0.51    | 22         | 11.11   | 0.66                  | 0.66    | 0.66                          | 0.095 |       |            |                |                | 1.537  |        |        |        |              |       | 83.0  | 2281  | 10850  |      |       |      |      |      |      |      |      |      |
| 21             | 7:00   |       | 17.8   | 1.710  | 1.445  | 0.021  | 1.444  | 0.090  |  | 22                  | 0.31    | 0.00                | 271  | 2.81                | 0.00    | 38               | 0.60    | 21              | 0.38    | 34         | 16.16   | 0.66                  | 0.66    | 0.66                          | 0.085 |       |            |                |                | 1.445  |        |        |        |              |       | 61.0  | 62.0  | 30.0   | 9124 | 43400 |      |      |      |      |      |      |      |
| 22             | 7:00   |       | 18.8   | 1.777  | 1.655  | 0.010  | 1.498  | 0.134  |  | 23                  | 0.31    | 0.00                | 311  | 2.92                | 0.00    | 33               | 0.50    | 23              | 0.61    | 27         | 9.65    | 0.66                  | 0.66    | 0.66                          | 0.115 |       |            |                |                | 1.655  | 116.0  | 61.0   | 62.0   | 30.0         | 9124  | 43400 |       |        |      |       |      |      |      |      |      |      |      |
| 23             | 7:00   |       | 17.1   | 1.688  | 1.581  | 0.017  | 1.352  | 0.119  |  | 23                  | 0.30    | 0.00                | 299  | 2.87                | 0.00    | 35               | 0.59    | 33              | 0.97    | 28         | 11.27   | 0.66                  | 0.66    | 0.66                          | 0.100 |       |            |                |                | 1.581  | 28.0   | 32.0   | 32.0   | 30.0         | 9124  | 43400 |       |        |      |       |      |      |      |      |      |      |      |
| 24             | 7:00   |       | 17.2   | 1.689  | 1.530  | 0.020  | 1.410  | 0.104  |  | 31                  | 0.44    | 0.00                | 288  | 2.82                | 0.00    | 46               | 0.74    | 74              | 2.08    | 28         | 12.97   | 0.66                  | 0.66    | 0.66                          | 0.094 |       |            |                |                | 1.530  |        |        | 25.0   | 26.0         |       | 4562  | 21700 |        |      |       |      |      |      |      |      |      |      |
| 25             | 7:00   |       | 20.6   | 2.113  | 1.905  | 0.014  | 1.709  | 0.139  |  | 29                  | 0.33    | 0.00                | 281  | 2.21                | 0.00    | 42               | 0.66    | 78              | 1.81    | 33         | 11.37   | 0.66                  | 0.66    | 0.66                          | 0.120 |       |            |                |                | 1.905  | 42.0   | 26.0   | 25.0   | 25.0         | 9124  | 43400 |       |        |      |       |      |      |      |      |      |      |      |
| 26             | 7:00   |       | 21.2   | 2.118  | 1.891  | 0.014  | 1.757  | 0.137  |  | 27                  | 0.31    | 0.00                | 291  | 2.31                | 0.00    | 41               | 0.53    | 10              | 0.23    | 29         | 10.13   | 0.66                  | 0.66    | 0.66                          | 0.123 |       |            |                |                | 1.891  |        |        | 26.0   | 26.0         | 26.0  | 6843  | 32550 |        |      |       |      |      |      |      |      |      |      |
| 27             | 7:00   |       | 19.4   | 1.927  | 1.765  | 0.016  | 1.543  | 0.123  |  | 30                  | 0.37    | 0.00                | 299  | 2.54                | 0.00    | 42               | 0.82    | 15              | 0.38    | 36         | 14.00   | 0.66                  | 0.66    | 0.66                          | 0.109 |       |            |                |                | 1.765  |        |        | 29.0   | 29.0         | 33.0  | 6843  | 32550 |        |      |       |      |      |      |      |      |      |      |
| 28             | 7:00   |       | 16.4   | 1.670  | 1.527  | 0.016  | 1.401  | 0.107  |  | 22                  | 0.32    | 0.00                | 275  | 2.70                | 0.00    | 28               | 0.46    | 12              | 0.34    | 41         | 18.45   | 0.66                  | 0.66    | 0.66                          | 0.097 |       |            |                |                | 1.527  | 75.0   | 29.0   | 29.0   |              |       | 32.0  | 4562  | 21700  |      |       |      |      |      |      |      |      |      |
| 29             | 7:00   |       | 15.5   | 1.530  | 1.520  | 0.009  | 1.204  | 0.112  |  | 19                  | 0.30    | 0.00                | 274  | 2.70                | 0.00    | 28               | 0.53    | 12              | 0.38    | 0          | 0.00    | 0.66                  | 0.66    | 0.66                          | 0.102 |       |            |                |                | 1.520  |        |        | 40.0   | 40.0         |       | 4562  | 21700 |        |      |       |      |      |      |      |      |      |      |
| 30             | 7:00   |       | 15.7   | 1.440  | 1.241  | 0.008  | 1.103  | 0.094  |  | 18                  | 0.30    | 0.00                | 224  | 2.71                | 0.00    | 29               | 0.60    | 13              | 0.47    | 0          | 0.00    | 0.66                  | 0.66    | 0.66                          | 0.080 |       |            |                |                | 1.241  | 43.0   | 32.0   |        |              |       | 37.0  | 6843  | 32550  |      |       |      |      |      |      |      |      |      |
| 31             |        |       |        |        |        |        |        |        |  |                     |         |                     |      |                     |         |                  |         |                 |         |            |         |                       |         |                               |       |       |            |                |                |  |        |        |        |              |       |       |       |        |      |       |      |      |      |      |      |      |      |
| Total          |        |       | 517.7  | 51.068 | 45.982 | 0.412  | 41.073 | 3.302  |  | 666                 | 6.66    | #DIV/0!             | 8206 | #DIV/0!             | 0       | #DIV/0!          | 1025    | #DIV/0!         | 776     | #DIV/0!    | 757     | #DIV/0!               |         |                               | 2.928 | 0.000 | 45.982     | 708            | 722            | 685  | 699    | 177918 | 846300 |              |       |       |       |        |      |       |      |      |      |      |      |      |      |
| Ave.           |        |       | 17.3   | 1.702  | 1.533  | 0.014  | 1.389  | 0.110  |  | 22.2                | #DIV/0! | #DIV/0!             | 274  | #DIV/0!             | #DIV/0! | 34.2             | #DIV/0! | 25.9            | #DIV/0! | 25.2       | #DIV/0! | 25.2                  | #DIV/0! |                               |       | 0.088 | #DIV/0!    | 0.686          | 0.66           | 0.66   | 0.66   | 0.66   | 0.66   | 0.66         | 0.66  | 0.66  | 0.66  | 0.66   | 0.66 | 0.66  | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 |      |      |
| Max            |        |       | 21.2   | 2.118  | 1.905  | 0.021  | 1.757  | 0.139  |  | 32.0                | #DIV/0! | #DIV/0!             | 372  | #DIV/0!             | #DIV/0! | 46               | #DIV/0! | 78              | #DIV/0! | 41         | #DIV/0! | 41                    | #DIV/0! |                               |       | 0.123 | 0.000      | 1.905          | 116.0          | 61.0   | 62.0   | 63.0   | 63.0   | 9124         | 43400 |       |       |        |      |       |      |      |      |      |      |      |      |
| Min            |        |       | 14.8   | 1.405  | 1.241  | 0.008  | 1.103  | 0.088  |  | 4.0                 | #DIV/0! | #DIV/0!             | 178  | #DIV/0!             | #DIV/0! | 9                | #DIV/0! | 23              | #DIV/0! | 9          | #DIV/0! | 9                     | #DIV/0! |                               |       | 0.079 | 0.000      | 0.000          | 21.0           | 25.0   | 25.0   | 25.0   | 25.0   | 25.0         | 25.0  | 25.0  | 25.0  | 25.0   | 25.0 | 25.0  | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |



