

| PAGE #1           |          | Dec 2018       |             | West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz |              |                |        |        |        |              |      |               |         |         |               |          |              |         |  |
|-------------------|----------|----------------|-------------|---------------------------------------------------------------------------------|--------------|----------------|--------|--------|--------|--------------|------|---------------|---------|---------|---------------|----------|--------------|---------|--|
| 1                 | 2        | 3              | 4           | 5                                                                               | 6            | 7              | 8      | 9      | 10     | 11           | 12   | 13            | 14      | 15      | 16            | 17       | 18           | 19      |  |
| Dec 2018          | Week Day | TEMPERATURE °F |             |                                                                                 |              | TEMPERATURE °F |        |        |        | SKY          |      | PRECIPITATION |         |         | FROZ. PRECIP. |          | 1st PERIOD   |         |  |
|                   |          | MAX.           | Time        | MIN.                                                                            | Time         | RANGE          | MEAN   | CHANGE | SOIL   | AM           | PM   | Liquid        | 1 Hr.   | 5 Min.  | NEW           | GROUND   | START        | END     |  |
| Dec-01            | Sat      | 44.5           | 23:56       | 41.3                                                                            | 0:27         | 3.2            | 42.9   | -2.5   | 46     | 2            | 2    | 0.12          | 0.07    | 0.01    |               |          | 0815         | 1055    |  |
| Dec-02            | Sun      | 58.8           | 22:31       | 43.2                                                                            | 6:25         | 15.6           | 51.0   | 8.1    | 47     | 2            | 2    | 0.10          | 0.05    | 0.01    |               |          | 0001         | 0510    |  |
| Dec-03            | Mon      | 64.2           | 12:13       | 38.0                                                                            | 23:53        | 26.2           | 51.1   | 0.1    | 49     | 2            | 1    |               |         |         |               |          |              |         |  |
| Dec-04            | Tue      | 49.0           | 11:45       | 32.7                                                                            | 6:01         | 16.3           | 40.9   | -10.3  | 49     | 2            | 2    | T             | T       | T       | T             | 0.0      | 2135         | 2145    |  |
| Dec-05            | Wed      | 39.7           | 10:01       | 27.0                                                                            | 20:52        | 12.7           | 33.4   | -7.5   | 48     | 2            | 2    | 0.01          | 0.01    | T       | 0.1           | 0.0      | 0003         | 0025    |  |
| Dec-06            | Thu      | 46.0           | 14:17       | 22.6                                                                            | 7:06         | 23.4           | 34.3   | 0.9    | 47     | 0            | 1    |               |         |         |               |          |              |         |  |
| Dec-07            | Fri      | 48.7           | 13:08       | 26.9                                                                            | 23:04        | 21.8           | 37.8   | 3.5    | 46     | 0            | 1    |               |         |         |               |          |              |         |  |
| Dec-08            | Sat      | 43.1           | 12:29       | 25.0                                                                            | 7:17         | 18.1           | 34.1   | -3.8   | 45     | 1            | 2    |               |         |         |               |          |              |         |  |
| Dec-09            | Sun      | 33.0           | 0:02        | 28.9                                                                            | 9:00         | 4.1            | 31.0   | -3.1   | 45     | 2            | 2    | 1.16          | 0.22    | 0.02    | 11.9          | 8.5      | 0735         | 2100    |  |
| Dec-10            | Mon      | 38.6           | 12:58       | 23.6                                                                            | 23:20        | 15             | 31.1   | 0.2    | 44     | 2            | 0    | T             | T       | T       | T             | 9.0      | 0001         | 0035    |  |
| Dec-11            | Tue      | 44.4           | 13:47       | 20.1                                                                            | 7:41         | 24.3           | 32.3   | 1.2    | 43     | 0            | 0    |               |         |         |               | 7.0      |              |         |  |
| Dec-12            | Wed      | 47.3           | 13:57       | 20.4                                                                            | 5:49         | 26.9           | 33.9   | 1.6    | 42     | 2            | 2    |               |         |         |               | 4.5      |              |         |  |
| Dec-13            | Thu      | 44.3           | 11:04       | 30.8                                                                            | 0:10         | 13.5           | 37.6   | 3.7    | 42     | 2            | 2    |               |         |         |               | 2.5      |              |         |  |
| Dec-14            | Fri      | 46.1           | 23:57       | 28.7                                                                            | 3:42         | 17.4           | 37.4   | -0.1   | 42     | 2            | 2    | 0.17          | 0.07    | 0.01    |               | 0.5      | 1320         | 1905    |  |
| Dec-15            | Sat      | 54.0           | 14:04       | 46.1                                                                            | 0:01         | 7.9            | 50.1   | 12.7   | 42     | 2            | 2    | 0.35          | 0.08    | 0.01    |               | 0.0      | 0005         | 0700    |  |
| Dec-16            | Sun      | 51.3           | 0:01        | 35.5                                                                            | 23:58        | 15.8           | 43.4   | -6.7   | 45     | 2            | 2    | 0.08          | 0.03    | 0.01    |               |          | 0340         | 0445    |  |
| Dec-17            | Mon      | 57.0           | 12:20       | 31.6                                                                            | 5:26         | 25.4           | 44.3   | 0.9    | 45     | 1            | 2    |               |         |         |               |          |              |         |  |
| Dec-18            | Tue      | 49.0           | 14:13       | 27.7                                                                            | 4:49         | 21.3           | 38.4   | -6.0   | 45     | 0            | 0    |               |         |         |               |          |              |         |  |
| Dec-19            | Wed      | 52.5           | 14:00       | 24.4                                                                            | 4:56         | 28.1           | 38.5   | 0.1    | 44     | 1            | 0    |               |         |         |               |          |              |         |  |
| Dec-20            | Thu      | 64.6           | 23:59       | 32.6                                                                            | 0:08         | 32             | 48.6   | 10.2   | 43     | 2            | 2    | 0.52          | 0.16    | 0.01    |               |          | 1140         | 2400    |  |
| Dec-21            | Fri      | 68.6           | 14:26       | 48.9                                                                            | 23:59        | 19.7           | 58.8   | 10.2   | 45     | 2            | 1    | 0.11          | 0.02    | 0.01    |               |          | 0001         | 0710    |  |
| Dec-22            | Sat      | 57.1           | 12:37       | 33.3                                                                            | 23:58        | 23.8           | 45.2   | -13.6  | 48     | 1            | 0    | T             | T       | T       |               |          | 0025         | 0035    |  |
| Dec-23            | Sun      | 52.5           | 13:55       | 27.4                                                                            | 7:02         | 25.1           | 40.0   | -5.3   | 47     | 0            | 0    | T             | T       | T       |               |          | 1905         | 1925    |  |
| Dec-24            | Mon      | 51.4           | 12:58       | 29.8                                                                            | 23:50        | 21.6           | 40.6   | 0.6    | 46     | 1            | 0    |               |         |         |               |          |              |         |  |
| Dec-25            | Tue      | 43.5           | 12:16       | 25.2                                                                            | 7:36         | 18.3           | 34.4   | -6.3   | 45     | 1            | 2    |               |         |         |               |          |              |         |  |
| Dec-26            | Wed      | 49.7           | 14:34       | 23.2                                                                            | 6:46         | 26.5           | 36.5   | 2.1    | 43     | 0            | 0    |               |         |         |               |          |              |         |  |
| Dec-27            | Thu      | 52.3           | 13:12       | 25.0                                                                            | 7:16         | 27.3           | 38.7   | 2.2    | 43     | 2            | 2    | 0.01          | 0.01    | T       |               |          | 2230         | 2400    |  |
| Dec-28            | Fri      | 61.1           | 9:12        | 45.0                                                                            | 2:37         | 16.1           | 53.1   | 14.4   | 43     | 2            | 2    | 1.75          | 0.41    | 0.09    |               |          | 0001         | 1605    |  |
| Dec-29            | Sat      | 65.5           | 12:59       | 41.0                                                                            | 23:59        | 24.5           | 53.3   | 0.2    | 46     | 0            | 1    |               |         |         |               |          |              |         |  |
| Dec-30            | Sun      | 53.2           | 14:51       | 37.3                                                                            | 7:01         | 15.9           | 45.3   | -8.0   | 47     | 2            | 2    |               |         |         |               |          |              |         |  |
| Dec-31            | Mon      | 62.9           | 23:59       | 38.8                                                                            | 0:12         | 24.1           | 50.9   | 5.6    | 46     | 2            | 2    | 0.13          | 0.05    | 0.01    |               |          | 0830         | 1525    |  |
| TOTAL             |          | 1594           |             | 982                                                                             |              | 611.9          | 1288.0 | 5.5    | 1398   | 42           | 41   | 4.51          | 1.18    | 0.19    | 12.0          | 32.0     | Col.26-27    |         |  |
| NUMBER            |          | 31             | 31          | 31                                                                              | 31           | 31             | 31     | 31     | 31     | 31           | 31   | 12            | 12      | 10      | 2             | 9        | DAILY AVE RH |         |  |
| AVERAGE           |          | 51.42          | 13:51       | 31.68                                                                           | 10:16        | 19.74          | 41.55  |        | 45.10  | 1.35         | 1.32 | Ave. Tot.     | Ave.Max | Ave.Max | Ave.Tot.      | Ave.Days | 79.34        | Percent |  |
| Normals           |          | 52.12          |             | 32.73                                                                           |              | 19.39          | 42.42  |        | 46.9   | 1.12         | 1.19 | 4.18          | 0.54    | 0.10    | 2.9           | 2.1      | 70.5         | Percent |  |
| EPARTURES         |          | -0.70          |             | -1.05                                                                           |              | 0.35           | -0.88  |        | -1.8   | 0.24         | 0.14 | 0.33          | 0.64    | 0.09    | 9.1           | 29.9     | 8.8          | Percent |  |
| MaxTemps. >= 70°F |          | 68.6           | Ave.HighMax | 48.9                                                                            | Ave.High Min | 32             | 58.8   | 14.4   | 49     | Whole Day    |      | 1.75          | 0.41    | 0.09    | 11.9          | 9.0      | Precip       | 24 Hr.  |  |
| 2018 0            |          | Dec-21         | 70.9        | Dec-21                                                                          | 52.4         | Dec-20         | Dec-21 | Dec-28 | Dec-03 | AVERAGE 1.34 |      | Dec-28        | Dec-28  | Dec-28  | Dec-09        | Dec-10   | Amount       | 1.76    |  |
| Ave. 1.6          |          |                | Dep.        |                                                                                 | Dep.         |                |        |        | Dec-04 | NORMAL 1.13  |      |               |         |         |               |          | Date         | Dec 27  |  |
| Departure -1.6    |          |                | -2.3        |                                                                                 | -3.5         |                |        |        |        | DEPART. 0.21 |      |               |         |         |               |          | Date         | Dec 28  |  |
| MinTemps. <= 32°F |          | 33.0           | Ave.LowMax  | 20.1                                                                            | Ave.Low Min  | 3.2            | 31.0   | -13.6  | 42     | SKY          |      | AM            | PM      | ≥ 0.10  | INCHES        |          | ≥ 2.00       | INCHES  |  |
| 2018 18           |          | Dec-09         | 35.0        | Dec-11                                                                          | 18.4         | Dec-01         | Dec-09 | Dec-22 | Dec-12 | CLEAR        |      | 7             | 8       | 9       | DAYS          |          | 2            | DAYS    |  |
| Ave. 17.0         |          |                | Dep.        |                                                                                 | Dep.         |                |        |        | Dec-13 | PT. CLO.     |      | 6             | 5       | HOTTEST | 58.8          | Highest  | Lowest       | COOLEST |  |
| Departure 1.0     |          |                | -2.0        |                                                                                 | 1.7          |                |        |        | Dec-14 | CLOUDY       |      | 18            | 18      | DAY     | 12-21         | Mean     | Mean         | DAY     |  |
| Days Max. <=32 °F |          | 0              |             |                                                                                 | MAX.         | ≥ 80           | ≥ 75   | ≥ 70   | ≥ 65   | ≥ 60         | ≥ 55 | ≥ 50          | ≥ 45    | ≥ 40    | ≥ 35          | ≥ 30     | ≥ 25         | ≥ 20    |  |
| Days Max. >=90°F  |          | 0              |             |                                                                                 | DAYS         | 0              | 0      | 0      | 3      | 6            | 9    | 17            | 24      | 29      | 30            | 31       | 31           | 31      |  |

| PAGE #2  |            | Dec 2018 |      | West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz |  |               |  |                     |  |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 20       |            | 21       |      | 22                                                                              |  | 23            |  | 24                  |  | 25 |  | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 27 |  | 28 |  | 29 |  | 30 |  | 31 |  | 32 |  | 33 |  | 34 |  | 35 |  | 36 |  | 37 |  | 38 |  |
| Dec 2018 | 2nd PERIOD |          | WIND |                                                                                 |  | REL. HUMIDITY |  | BAROMETRIC PRESSURE |  |    |  | 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| Dec<br>2018                                                                                                                                                                                                                                                                                                                                                                                                                        | REMARKS FOR THE MONTH<br>December - 2018                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec-01                                                                                                                                                                                                                                                                                                                                                                                                                             | CLOUDY DAMP WITH MAINLY SPRINKLES AND DRIZZLE WITH A EAST TO NE LIGHT BREEZE                                                                                     |
| Dec-02                                                                                                                                                                                                                                                                                                                                                                                                                             | A VERY DAMP DAY WITH ONLY A LITTLE DRIZZLE AND FOG IN AM & MORE FOG AFTER DARK                                                                                   |
| Dec-03                                                                                                                                                                                                                                                                                                                                                                                                                             | A CLOUDY AM BUT SCATTERED CIRRUS FROM 1215-1345 THEN MOSTLY THIN FIBROUS CIRRUS THAT BECAME THICKER TOWARD SUNSET-PM EST. 65% CLOUDY                             |
| Dec-04                                                                                                                                                                                                                                                                                                                                                                                                                             | FROZEN DEW ON DECK-CLOUDY AND CHILLY AM WITH BREEZY CONDITIONS-PM HAD LESS WIND & A FEW SNOW PELLETS OCCURRED AROUND 2130                                        |
| Dec-05                                                                                                                                                                                                                                                                                                                                                                                                                             | VERY COLD WINTER LIKE DAY WITH SNOW FLURRIES & A SNOW SHOWER THAT OCCURRED AT 1130-1140 THAT GAVE 0.1 INCH OF SNOW THAT MELTED QUICKLY                           |
| Dec-06                                                                                                                                                                                                                                                                                                                                                                                                                             | FROST SO HEAVY IT TRIPPED RAIN GAUGE-PM HAD THIN CIRRUS WITH SUN PASSING THROUGH THESE CLOUDS THAT CAME IN AROUND 1515                                           |
| Dec-07                                                                                                                                                                                                                                                                                                                                                                                                                             | BEAUTIFUL SUNRISE WITH LIGHT FROST - MOSTLY A FEW AM CIRRUS THAT BECAME CLEAR AFTER 1015                                                                         |
| Dec-08                                                                                                                                                                                                                                                                                                                                                                                                                             | SNOWSTORM TO TRACK TO THE SOUTH TOMORROW-RAPID INCREASE IN SNOW TOTALS AND CHANGE IN FORECAST FROM LIGHT SNOW TO FORECAST OF 3-6 INS.-SUN THROUGH THIN AM CIRRUS |
| Dec-09                                                                                                                                                                                                                                                                                                                                                                                                                             | THIS WAS THE LARGEST SNOWSTORM IN A CALENDAR DAY AT OUR STATION-PREV. REC. WAS 11.4 INS ON JAN. 30, 2010-2ND LARGEST EARLY SNOWFALL FOR RICHMOND. THE EARLIEST   |
| Dec-10                                                                                                                                                                                                                                                                                                                                                                                                                             | CLOUDS CLEARED AROUND 1245 & AFTERNOON SUN MELTED A LOT OF SNOW                                                                                                  |
| Dec-11                                                                                                                                                                                                                                                                                                                                                                                                                             | LOWEST TEMP. SINCE FEB. 10, 2018 WHEN IT WAS 19.1°F-VERY SUNNY DAY WITH A GOOD WARMUP IN AFTERNOON                                                               |
| Dec-12                                                                                                                                                                                                                                                                                                                                                                                                                             | CLOUDY ALL DAY BUT SOME SUN THROUGH THIN OVERCAST AND WARMER                                                                                                     |
| Dec-13                                                                                                                                                                                                                                                                                                                                                                                                                             | CLOUDY AGAIN BUT STILL A LOT OF MELTING AND ALL ROADS ARE NOW CLEAR                                                                                              |
| Dec-14                                                                                                                                                                                                                                                                                                                                                                                                                             | FROST MELTED BEFORE AM READING & WARMEST TEMPS. OCCURRED AT 2357-ALTOSTRATUS IN AM                                                                               |
| Dec-15                                                                                                                                                                                                                                                                                                                                                                                                                             | DAMP OFF AND ON DRIZZLY DAY BUT WARM FOR DEC.-3RD PD. OF PRECIP 1415-1530 & 5TH PD. FROM 1840-                                                                   |
| Dec-16                                                                                                                                                                                                                                                                                                                                                                                                                             | 3RD PD. OF PRECIP. 1630-1710-PRECIP. ALL DAY WAS JUST DRIZZLE AND GLOOMY DAY                                                                                     |
| Dec-17                                                                                                                                                                                                                                                                                                                                                                                                                             | HEAVY AM FOG THAT CLEARED QUICKLY AT 0805-ALTOCUMULUS CAME IN AROUND 1145                                                                                        |
| Dec-18                                                                                                                                                                                                                                                                                                                                                                                                                             | VERY FROSTY AM AND VERY CLEAR DEEP BLUE SKY MADE A BELOW AVE. DAY FEEL RATHER COMFORTABLE                                                                        |
| Dec-19                                                                                                                                                                                                                                                                                                                                                                                                                             | VERY FROSTY AM AGAIN WITH SUN THROUGH THIN CIRRUS IN AM AND MOSTLY CLEAR AFTER 1215                                                                              |
| Dec-20                                                                                                                                                                                                                                                                                                                                                                                                                             | WARM FRONTAL PASSAGE GAVE HIGHEST TEMPS. AT MIDNIGHT                                                                                                             |
| Dec-21                                                                                                                                                                                                                                                                                                                                                                                                                             | LOWEST BAROMETER OF YEAR AND LOWEST SINCE MARCH 12, 2014 WHEN IT WAS 29.13°F-PDS. OF PC TO CLOUDY IN PM-CLOUDS EST. AT 60-70% CLOUDY-3RD PD. OF RAIN 2255-2400   |
| Dec-22                                                                                                                                                                                                                                                                                                                                                                                                                             | DECK AND SURFACES STILL WET FROM RAIN-CLEARED OFF AT 1020-GOOD WEATHER FOR DEC. 22ND                                                                             |
| Dec-23                                                                                                                                                                                                                                                                                                                                                                                                                             | VERY CLEAR DAY WITH DEEP BLUE SKY BUT CLOUDS CAME IN JUST BEFORE DARK                                                                                            |
| Dec-24                                                                                                                                                                                                                                                                                                                                                                                                                             | FROZEN DEW WITH FROST-VERY CLEAR AFTERNOON BUT CIRRUS AND ALTOCUMULUS OCCURRED IN MORNING                                                                        |
| Dec-25                                                                                                                                                                                                                                                                                                                                                                                                                             | MOSTLY CLOUDY AND A GOOD BIT COOLER TODAY-CLOUDS CAME IN ABOUT 0930                                                                                              |
| Dec-26                                                                                                                                                                                                                                                                                                                                                                                                                             | CALM CLEAR ALL DAY WITH NEAR AVE. TEMPERATURES-HEAVY FROST IN AM-DEEP BLUE SKY                                                                                   |
| Dec-27                                                                                                                                                                                                                                                                                                                                                                                                                             | VERY CLEAR CALM NIGHT-SUN THROUGH CIRRUS AND CIRROSTRATUS IN AM-PM BECAME MOSTLY CLO. WITH ALTOSTRATUS AND STRATUS                                               |
| Dec-28                                                                                                                                                                                                                                                                                                                                                                                                                             | RAIN FROM 1030-1605-HEAVIEST AT 1405-1415-SOME RIVER FLOODING REPORTED                                                                                           |
| Dec-29                                                                                                                                                                                                                                                                                                                                                                                                                             | ONLY A FEW AM CIRRUS & PM WAS CLEAR UNTIL 1315 THEN MANY CIRRUS BECAME CIRROSTRATUS & THEN ALTOSTRATUS BY SUNSET                                                 |
| Dec-30                                                                                                                                                                                                                                                                                                                                                                                                                             | SOME SUN THROUGH CLOUDS BET. 1100-1300 AND MUCH COOLER THAN YESTERDAY                                                                                            |
| Dec-31                                                                                                                                                                                                                                                                                                                                                                                                                             | CLOUDY DAMP WEATHER WITH SPRINKLES AND DRIZZLE AND LIGHT PRECIP.-CLOUDY ALL DAY- ALSO SOME OFF AND ON DRIZZLE AFTER 1525 THAT ADDED UP TO 0.01 INCHES            |
| DATE                                                                                                                                                                                                                                                                                                                                                                                                                               | EXTENSION OF LENGTHY DAILY REMARKS                                                                                                                               |
| Dec-08                                                                                                                                                                                                                                                                                                                                                                                                                             | THAT BECAME CIRROSTRATUS & ALTOSTRATUS IN PM                                                                                                                     |
| Dec-09                                                                                                                                                                                                                                                                                                                                                                                                                             | LARGE SNOWFALL OF 11.5 INCHES AT THE AIRPORT-PREV. REC. THIS EARLY WAS 4.5 INCHES IN 1893.                                                                       |
| <p>The daily records for the month are listed on page # 4 and not found in the remarks.</p> <p>The link below explains how observations are taken at the Glen Allen Weather Station - Note the Numbers match the column numbers on the Observation Sheet</p> <p><a href="http://www.glenallenweather.com/upload/glenallencclimate/log/2018/Rules.pdf">www.glenallenweather.com/upload/glenallencclimate/log/2018/Rules.pdf</a></p> |                                                                                                                                                                  |

## The Glen Allen Station had 13 Records or Record Ties in December 2018

[illegible]

# DECEMBER TEMPERATURE GRAPH

