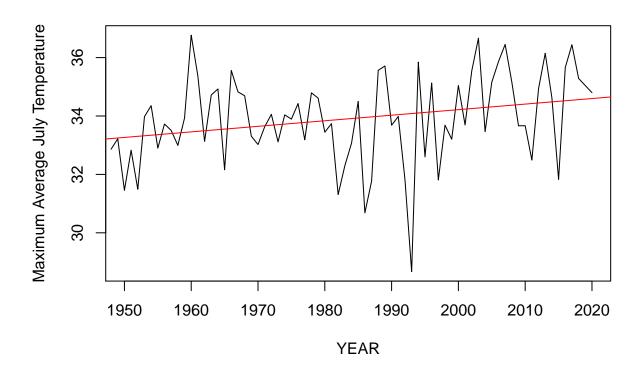
Bryan R Markdown

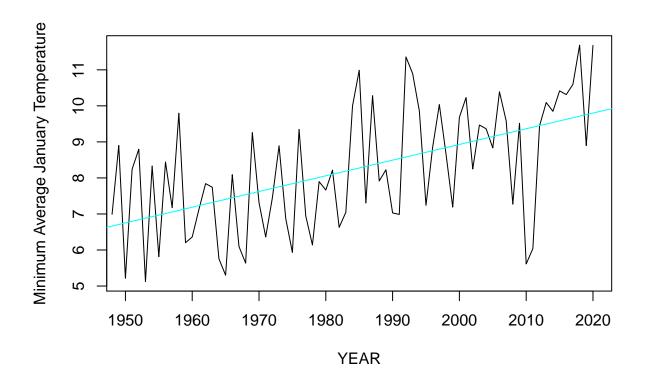
Based on my analysis, my data indicate that there is a trend of increasing temperature in Salt Lake City for the month of July, rejecting the null hypothesis. (slope = 0.019, r2 = 0, p-value = 0.024).

```
##
## lm(formula = TMAX ~ YEAR, data = MonthlyTMAXMean[MonthlyTMAXMean$MONTH ==
##
      month_i, ])
##
## Residuals:
##
      Min
               1Q Median
                               3Q
                                      Max
## -5.4129 -0.6236 0.1359 0.9951
                                  3.3119
##
## Coefficients:
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) -3.842114 16.337022 -0.235
                                             0.8147
## YEAR
               0.019030
                          0.008234
                                     2.311
                                             0.0237 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 1.482 on 71 degrees of freedom
## Multiple R-squared: 0.06997,
                                   Adjusted R-squared:
## F-statistic: 5.341 on 1 and 71 DF, p-value: 0.02373
```



Based on my analysis, my data indicate that there is not a trend of increasing temperature in Salt Lake City for the month of January, failing to reject the null hypothesis (slope = 0.0435, $r^2 = 0$, p-value = 0.29).

```
##
## Call:
  lm(formula = TMIN ~ YEAR, data = MonthlyTMINMean[MonthlyTMINMean$Month ==
##
       "05", ])
##
##
##
  Residuals:
##
                1Q
                    Median
                                 3Q
                                        Max
##
   -3.7519 -1.1439
                    0.0996
                            1.1964
                                     2.7771
##
##
  Coefficients:
##
                 Estimate Std. Error t value Pr(>|t|)
##
   (Intercept) -78.160236
                            16.042214
                                       -4.872 6.49e-06 ***
##
                 0.043545
                             0.008085
                                        5.386 8.89e-07 ***
##
## Signif. codes:
                     '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1
##
## Residual standard error: 1.456 on 71 degrees of freedom
## Multiple R-squared:
                         0.29, Adjusted R-squared:
## F-statistic: 29.01 on 1 and 71 DF, p-value: 8.89e-07
```



```
## [,1] [,2] [,3] [,4] ## YEAR "December" "0.0435" "0" "0.29"
```

Based on my analysis, my data indicate that there is a trend of decreasing snowfall in Salt Lake City for the month of January, rejecting the null hypothesis (slope = -0.0488, r2 = 0.2271, p-value = 0.02).

```
##
##
  Call:
   lm(formula = SNOW ~ Year, data = MonthlySNOWMean[MonthlySNOWMean$Month ==
##
##
       i, ])
##
##
   Residuals:
##
        Min
                   1Q
                        Median
                                     ЗQ
                                              Max
##
   -11.6948
             -4.1263
                      -0.9954
                                 2.8821
                                         31.0295
##
##
   Coefficients:
##
                Estimate Std. Error t value Pr(>|t|)
   (Intercept) 107.57645
##
                            79.54161
                                       1.352
                                                 0.181
## Year
                -0.04884
                             0.04009
                                      -1.218
                                                 0.227
##
## Residual standard error: 7.217 on 71 degrees of freedom
## Multiple R-squared: 0.02048,
                                     Adjusted R-squared:
                                                           0.006684
## F-statistic: 1.485 on 1 and 71 DF, p-value: 0.2271
```

January

