**————— 4/24/2017 7:11:27 PM ————————————————————**

Welcome to Minitab, press F1 for help.

**Results for: Sheet1**

**Polynomial Regression Analysis: Bkg\_date versus Air traffic**

The regression equation is

Bkg\_date = 10441 + 0.2782 Air traffic - 0.000008 Air traffic^2 + 0.000000 Air traffic^3

S = 1084.20 R-Sq = 59.3% R-Sq(adj) = 53.2%

Analysis of Variance

Source DF SS MS F P

Regression 3 34253045 11417682 9.71 0.000

Error 20 23509583 1175479

Total 23 57762629

Sequential Analysis of Variance

Source DF SS F P

Linear 1 17946970 9.92 0.005

Quadratic 1 44435 0.02 0.880

Cubic 1 16261640 13.83 0.001



**ARIMA Model: Air traffic**

Estimates at each iteration

Iteration SSE Parameters

0 1607506179 0.100 -3586.880

1 1479542686 0.250 -2964.556

2 1428466732 0.400 -2354.359

3 1427416696 0.423 -2280.981

4 1427410809 0.425 -2281.320

5 1427410768 0.425 -2281.518

Relative change in each estimate less than 0.0010

\* ERROR \* Model cannot be estimated with these data.

**Regression Analysis: Bkg\_date versus Air\_traffic**

The regression equation is

Bkg\_date = 11063 + 0.02214 Air\_traffic

S = 1345.29 R-Sq = 31.1% R-Sq(adj) = 27.9%

Analysis of Variance

Source DF SS MS F P

Regression 1 17946970 17946970 9.92 0.005

Error 22 39815658 1809803

Total 23 57762629



**Regression Analysis: Air\_traffic versus Bkg\_date**

Analysis of Variance

Source DF Adj SS Adj MS F-Value P-Value

Regression 1 11377715328 11377715328 9.92 0.005

Bkg\_date 1 11377715328 11377715328 9.92 0.005

Error 22 25241654596 1147347936

Total 23 36619369924

Model Summary

S R-sq R-sq(adj) R-sq(pred)

33872.5 31.07% 27.94% 20.07%

Coefficients

Term Coef SE Coef T-Value P-Value VIF

Constant -125149 54060 -2.32 0.030

Bkg\_date 14.03 4.46 3.15 0.005 1.00

Regression Equation

Air\_traffic = -125149 + 14.03 Bkg\_date

Fits and Diagnostics for Unusual Observations

Obs Air\_traffic Fit Resid Std Resid

15 9594 75927 -66333 -2.10 R

R Large residual

