

Simple Linear Regression in Excel

Example 1 (Simple Linear Regression):

Fit a straight line to $Y = (\text{number of}) \text{ Jobs}$ as a function of $X = \text{GPA}$ to the following data:

GPA	Jobs
3.5	24
3.3	23
2.6	18
2.8	20
3	22
2.3	15
2.4	17
2.7	17
3.2	22
3.5	25
2.9	21
3.5	25
2.2	13
3.8	27
2.7	18

With data in the range A1:B16 (see [Simple Linear Regression.xlsx](#), worksheet [Data](#)), click on Data/Data Analysis/Regression, Select A1:B16 as the Input Range, check Labels box, Residuals Box, Residuals Plots box, and give a name to Output Worksheet (RESULTS), as shown in Figure 1a.

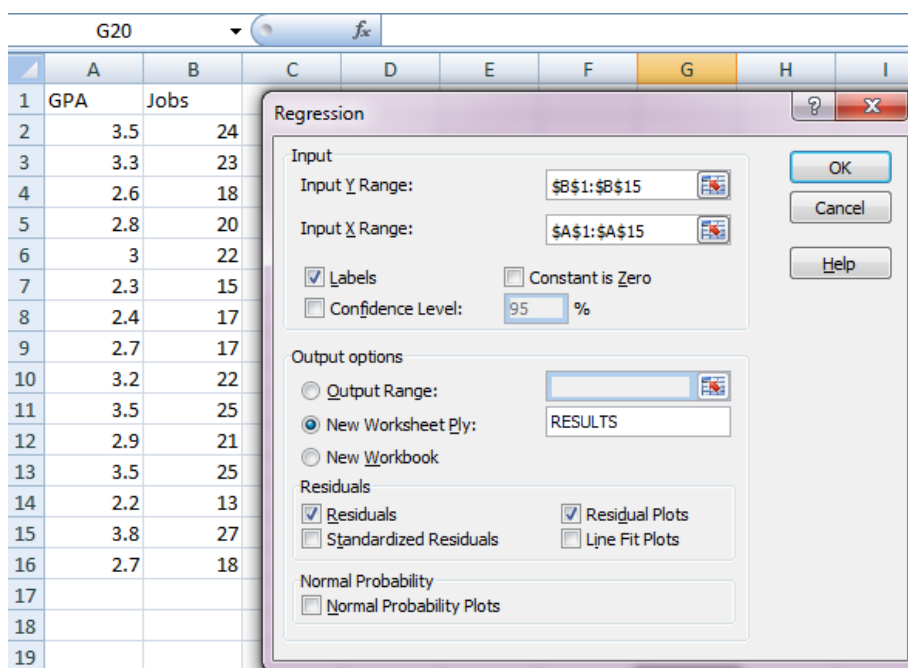


Figure 1a: Simple Linear Regression in Excel

Simple Linear Regression in Excel

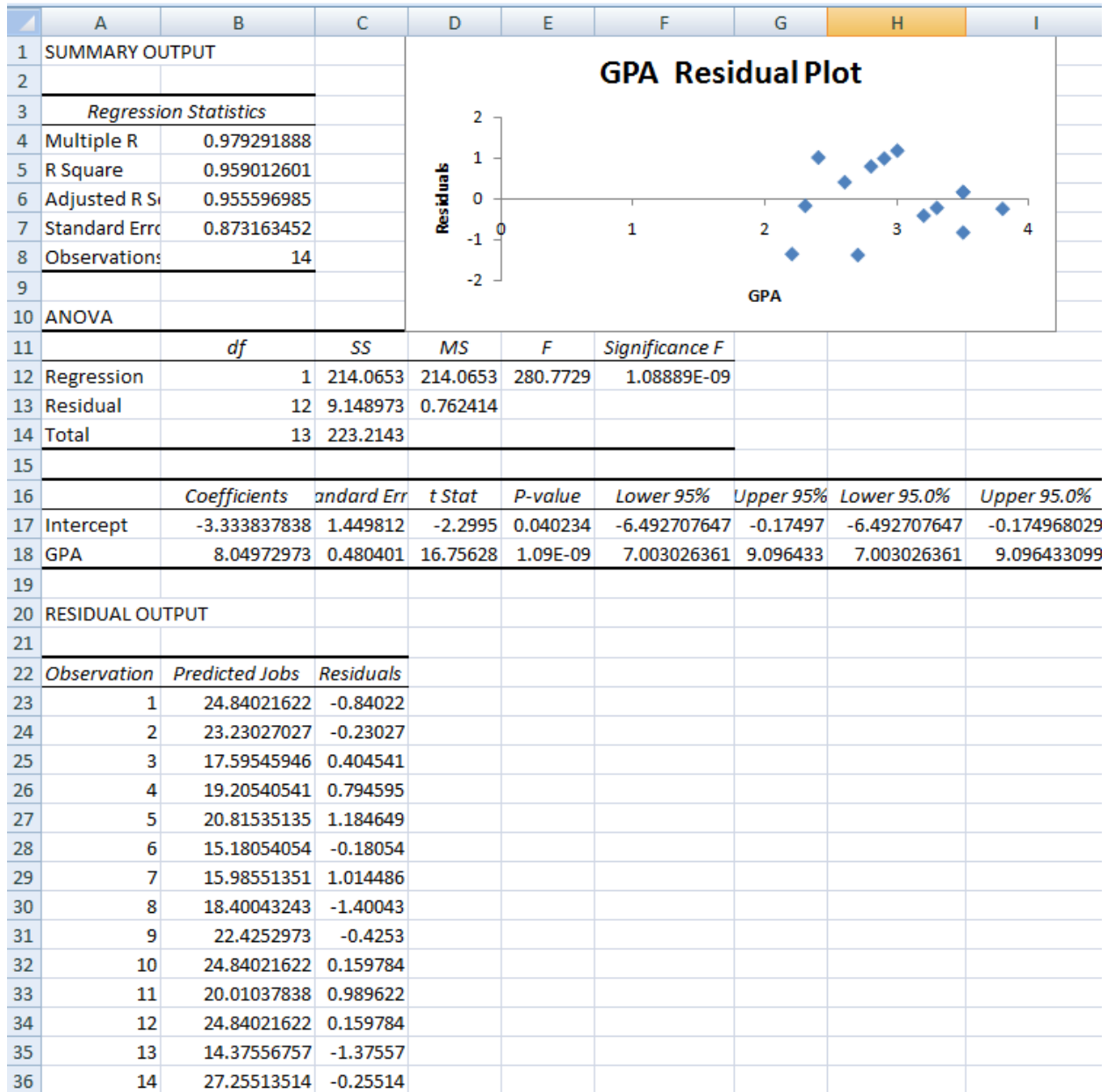


Figure 1b: Simple Linear Regression Results in Excel

The fitted line is $Y = -3.33 + 8.05 \text{ GPA}$, with $R^2 = 95.9\%$.