SHEET3

**Regression Analysis: Value of Target Variable versus Value of Predicting Variable**

**Method**

|  |  |
| --- | --- |
| Rows unused | 24 |

**Regression Equation**

|  |  |  |
| --- | --- | --- |
| Health expenditure (% of GDP) | = | 5.821 + 0.0570 GDP per capita (in thousands) |

**Coefficients**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term** | **Coef** | **SE Coef** | **T-Value** | **P-Value** | **VIF** |
| Constant | 5.821 | 0.265 | 21.98 | 0.000 |  |
| Value of Predicting Variable | 0.0570 | 0.0116 | 4.93 | 0.000 | 1.00 |

**Model Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| **S** | **R-sq** | **R-sq(adj)** | **R-sq(pred)** |
| 2.85285 | 11.78% | 11.29% | 9.60% |

**Analysis of Variance**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source** | **DF** | **Adj SS** | **Adj MS** | **F-Value** | **P-Value** |
| Regression | 1 | 197.72 | 197.718 | 24.29 | 0.000 |
| Value of Predicting Variable | 1 | 197.72 | 197.718 | 24.29 | 0.000 |
| Error | 182 | 1481.25 | 8.139 |  |  |
| Lack-of-Fit | 181 | 1469.73 | 8.120 | 0.70 | 0.765 |
| Pure Error | 1 | 11.52 | 11.520 |  |  |
| Total | 183 | 1678.97 |  |  |  |

**Fits and Diagnostics for Unusual Observations**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **Value of Target Variable** | **Fit** | **Resid** | **Std Resid** |  |  |
| 1 | 13.200 | 5.850 | 7.350 | 2.59 | R |  |
| 8 | 9.900 | 8.941 | 0.959 | 0.34 |  | X |
| 47 | 10.000 | 9.252 | 0.748 | 0.27 |  | X |
| 76 | 8.600 | 9.998 | -1.398 | -0.51 |  | X |
| 81 | 6.700 | 10.478 | -3.778 | -1.38 |  | X |
| 104 | 16.300 | 6.054 | 10.246 | 3.60 | R |  |
| 123 | 10.500 | 10.116 | 0.384 | 0.14 |  | X |
| 126 | 15.200 | 6.708 | 8.492 | 2.98 | R |  |
| 134 | 2.900 | 9.358 | -6.458 | -2.31 | R | X |
| 151 | 4.400 | 9.496 | -5.096 | -1.83 |  | X |
| 162 | 11.300 | 10.673 | 0.627 | 0.23 |  | X |
| 172 | 24.000 | 6.086 | 17.914 | 6.30 | R |  |
| 178 | 16.800 | 9.521 | 7.279 | 2.62 | R | X |

*R  Large residual  
X  Unusual X*

