**Trend Lines Model**

A linear trend model is computed for average of Fare given sum of Distance. The model may be significant at p <= 0.05. The factor Vacation may be significant at p <= 0.05.

|  |  |
| --- | --- |
| **Model formula:** | Vacation\*( Distance + intercept ) |
| **Number of modeled observations:** | 452 |
| **Number of filtered observations:** | 0 |
| **Model degrees of freedom:** | 4 |
| **Residual degrees of freedom (DF):** | 448 |
| **SSE (sum squared error):** | 1.40778e+06 |
| **MSE (mean squared error):** | 3142.36 |
| **R-Squared:** | 0.456964 |
| **Standard error:** | 56.0568 |
| **p-value (significance):** | < 0.0001 |

**Analysis of Variance:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **DF** | **SSE** | **MSE** | **F** | **p-value** |
| **Vacation** | 2 | 144143.02 | 72071.5 | 22.9355 | < 0.0001 |

**Individual trend lines:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Panes** | | **Color** | **Line** | | **Coefficients** | | | | |
| **Row** | **Column** | **Vacation** | **p-value** | **DF** | **Term** | **Value** | **StdErr** | **t-value** | **p-value** |
| Fare | Distance | Yes | < 0.0001 | 134 | Distance | 0.0305904 | 0.0033999 | 8.99741 | < 0.0001 |
|  | | | | | intercept | 82.5585 | 5.60036 | 14.7416 | < 0.0001 |
| Fare | Distance | No | < 0.0001 | 314 | Distance | 0.0400652 | 0.0025989 | 15.4162 | < 0.0001 |
|  | | | | | intercept | 107.434 | 5.03366 | 21.3432 | < 0.0001 |