Lab #5 Time Series Applications of Regression

Bivariate Fit of ODOR By TIME

Linear Fit
ODOR = 8.5602837 - 0.1844333 TIME

Summary of Fit
RSquare = 0.681324
RSquare Adj = 0.674396
Root Mean Square Error = 1.784988
Mean of Response = 4.041667
Observations (or Sum Wgts) = 48

Analysis of Variance
Source | DF | Sum of Squares | Mean Square | F Ratio
--- | --- | --- | --- | ---
Model | 1 | 313.35226 | 313.352 | 98.3472
Error | 46 | 146.56441 | 3.186 | Prob > F
C. Total | 47 | 459.91667 | <.0001

Parameter Estimates
Term | Estimate | Std Error | t Ratio | Prob>|t|
--- | --- | --- | --- | ---
Intercept | 8.5602837 | 0.52344 | 16.35 | <.0001
TIME | -0.184433 | 0.018598 | -9.92 | <.0001
Bivariate Fit of RATES By RateLag1

Linear Fit
RATES = 0.0342378 + 0.9930551 RateLag1

Summary of Fit
RSquare 0.989895
RSquare Adj 0.989847
Root Mean Square Error 0.293613
Mean of Response 10.37019
Observations (or Sum Wgts) 215

Analysis of Variance

<table>
<thead>
<tr>
<th>Source</th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F Ratio</th>
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<tr>
<td>Model</td>
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<td>&lt;.0001</td>
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</tbody>
</table>

Parameter Estimates

| Term      | Estimate | Std Error  | t Ratio | Prob>|t| |
|-----------|----------|------------|---------|------|
| Intercept | 0.0342378| 0.074305   | 0.46    | 0.6454|
| RateLag1  | 0.9930551| 0.006875   | 144.45  | <.0001|