

Selection Procedures – MDBH Example

Forward

Stepwise Fit

Response: MDBH

Stepwise Regression Control

Prob to Enter 0.250

Prob to Leave 0.100

Direction:

Current Estimates

| | SSE | DFE | MSE | RSquare | RSquare Adj | Cp | AIC |
|-------------------------------------|---|----------|-----------|----------|-------------|----------|----------|
| | 10.3855 | 19 | 0.5466053 | 0.0000 | 0.0000 | 102.4885 | -11.1064 |
| Lock Entered | Parameter | Estimate | nDF | SS | "F Ratio" | "Prob>F" | |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Intercept | 6.265 | 1 | 0 | 0.000 | 1.0000 | |
| <input type="checkbox"/> | <input type="checkbox"/> X1 | 0 | 1 | 6.207045 | 26.739 | 0.0001 | |
| <input type="checkbox"/> | <input type="checkbox"/> X2 | 0 | 1 | 0.616027 | 1.135 | 0.3008 | |
| <input type="checkbox"/> | <input type="checkbox"/> X3 | 0 | 1 | 7.335255 | 43.287 | 0.0000 | |

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|-------------------------------------|---|------------|-----------|----------|-------------|----------|----------|
| | 1.3791191 | 16 | 0.0861949 | 0.8672 | 0.8423 | 4 | -45.4857 |
| Lock Entered | Parameter | Estimate | nDF | SS | "F Ratio" | "Prob>F" | |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Intercept | 3.23573225 | 1 | 0 | 0.000 | 1.0000 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X1 | 0.09740562 | 1 | 1.26783 | 14.709 | 0.0015 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X2 | -0.0001689 | 1 | 0.670967 | 7.784 | 0.0131 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X3 | 3.46681347 | 1 | 0.014774 | 0.171 | 0.6844 | |

Step History

| Step | Parameter | Action | "Sig Prob" | Seq SS | RSquare | Cp | p |
|------|-----------|---------|------------|----------|---------|--------|---|
| 1 | X3 | Entered | 0.0000 | 7.335255 | 0.7063 | 19.388 | 2 |
| 2 | X1 | Entered | 0.0104 | 1.000159 | 0.8026 | 9.7843 | 3 |
| 3 | X2 | Entered | 0.0131 | 0.670967 | 0.8672 | 4 | 4 |

Selection Procedures – MDBH Example

Backward

Stepwise Fit

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Stepwise Regression Control

Prob to Enter 0.250

Prob to Leave 0.100

Direction: Backward

Current Estimates

| | SSE | DFE | MSE | RSquare | RSquare Adj | Cp | AIC |
|-------------------------------------|---|------------|-----------|----------|-------------|----------|----------|
| | 1.3791191 | 16 | 0.0861949 | 0.8672 | 0.8423 | 4 | -45.4857 |
| Lock Entered | Parameter | Estimate | nDF | SS | "F Ratio" | "Prob>F" | |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Intercept | 3.23573225 | 1 | 0 | 0.000 | 1.0000 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X1 | 0.09740562 | 1 | 1.26783 | 14.709 | 0.0015 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X2 | -0.0001689 | 1 | 0.670967 | 7.784 | 0.0131 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X3 | 3.46681347 | 1 | 0.014774 | 0.171 | 0.6844 | |

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Direction: Backward

Current Estimates

| | SSE | DFE | MSE | RSquare | RSquare Adj | Cp | AIC |
|-------------------------------------|---|------------|-----------|----------|-------------|-----------|----------|
| | 1.3938931 | 17 | 0.0819937 | 0.8658 | 0.8500 | 2.1714023 | -47.2726 |
| Lock Entered | Parameter | Estimate | nDF | SS | "F Ratio" | "Prob>F" | |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Intercept | 3.26051366 | 1 | 0 | 0.000 | 1.0000 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X1 | 0.10691347 | 1 | 8.37558 | 102.149 | 0.0000 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X2 | -0.0001898 | 1 | 2.784561 | 33.961 | 0.0000 | |
| <input type="checkbox"/> | <input type="checkbox"/> X3 | | 0 | 1 | 0.014774 | 0.171 | 0.6844 |

Step History

| Step | Parameter | Action | "Sig Prob" | Seq SS | RSquare | Cp | p |
|------|-----------|---------|------------|----------|---------|--------|---|
| 1 | X3 | Removed | 0.6844 | 0.014774 | 0.8658 | 2.1714 | 3 |

Selection Procedures – MDBH Example

Mixed

Stepwise Fit

Response: MDBH

Stepwise Regression Control

Prob to Enter 0.250

Prob to Leave 0.250

Direction: Mixed

Current Estimates

| | SSE | DFE | MSE | RSquare | RSquare Adj | Cp | AIC |
|-------------------------------------|---|----------|-----------|----------|-------------|----------|----------|
| | 10.3855 | 19 | 0.5466053 | 0.0000 | 0.0000 | 102.4885 | -11.1064 |
| Lock Entered | Parameter | Estimate | nDF | SS | "F Ratio" | "Prob>F" | |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Intercept | 6.265 | 1 | 0 | 0.000 | 1.0000 | |
| <input type="checkbox"/> | <input type="checkbox"/> X1 | 0 | 1 | 6.207045 | 26.739 | 0.0001 | |
| <input type="checkbox"/> | <input type="checkbox"/> X2 | 0 | 1 | 0.616027 | 1.135 | 0.3008 | |
| <input type="checkbox"/> | <input type="checkbox"/> X3 | 0 | 1 | 7.335255 | 43.287 | 0.0000 | |

Step History

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Prob to Leave 0.250

Direction: Mixed

Current Estimates

| | SSE | DFE | MSE | RSquare | RSquare Adj | Cp | AIC |
|-------------------------------------|---|------------|-----------|----------|-------------|-----------|----------|
| | 1.3938931 | 17 | 0.0819937 | 0.8658 | 0.8500 | 2.1714023 | -47.2726 |
| Lock Entered | Parameter | Estimate | nDF | SS | "F Ratio" | "Prob>F" | |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Intercept | 3.26051366 | 1 | 0 | 0.000 | 1.0000 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X1 | 0.10691347 | 1 | 8.37558 | 102.149 | 0.0000 | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> X2 | -0.0001898 | 1 | 2.784561 | 33.961 | 0.0000 | |
| <input type="checkbox"/> | <input type="checkbox"/> X3 | 0 | 1 | 0.014774 | 0.171 | 0.6844 | |

Step History

| Step | Parameter | Action | "Sig Prob" | Seq SS | RSquare | Cp | p |
|------|-----------|---------|------------|----------|---------|--------|---|
| 1 | X3 | Entered | 0.0000 | 7.335255 | 0.7063 | 19.388 | 2 |
| 2 | X1 | Entered | 0.0104 | 1.000159 | 0.8026 | 9.7843 | 3 |
| 3 | X2 | Entered | 0.0131 | 0.670967 | 0.8672 | 4 | 4 |
| 4 | X3 | Removed | 0.6844 | 0.014774 | 0.8658 | 2.1714 | 3 |