**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**

| | |
|---|---|
| Number of Observations Read | 50 |
| Number of Observations Used | 50 |

**Maximum R-Square Improvement: Step 1**

**Variable unsure Entered: R-Square = 0.3105 and C(p) = 23.4722**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 1 | 53.95063 | 53.95063 | 21.61 | <.0001 |
| Error | 48 | 119.82937 | 2.49645 | | |
| Corrected Total | 49 | 173.78000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 4.71429 | 0.42228 | 311.14286 | 124.63 | <.0001 |
| unsure | 2.31349 | 0.49766 | 53.95063 | 21.61 | <.0001 |

**Bounds on condition number: 1, 1**

**The above model is the best 1-variable model found.**

**Maximum R-Square Improvement: Step 2**

**Variable cgpa Entered: R-Square = 0.3737 and C(p) = 19.0973**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 2 | 64.94631 | 32.47316 | 14.02 | <.0001 |
| Error | 47 | 108.83369 | 2.31561 | | |
| Corrected Total | 49 | 173.78000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 8.32312 | 1.70531 | 55.16066 | 23.82 | <.0001 |
| cgpa | -0.98583 | 0.45240 | 10.99568 | 4.75 | 0.0344 |
| unsure | 1.75344 | 0.54385 | 24.07036 | 10.39 | 0.0023 |

**Bounds on condition number: 1.2875, 5.1502**

**The above model is the best 2-variable model found.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**

**Maximum R-Square Improvement: Step 3**

**Variable it Entered: R-Square = 0.4506 and C(p) = 13.3566**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 3 | 78.29798 | 26.09933 | 12.57 | <.0001 |
| Error | 46 | 95.48202 | 2.07570 | | |
| Corrected Total | 49 | 173.78000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 9.49035 | 1.67887 | 66.32768 | 31.95 | <.0001 |
| cgpa | -1.45387 | 0.46639 | 20.17068 | 9.72 | 0.0031 |
| unsure | 1.86377 | 0.51674 | 27.00196 | 13.01 | 0.0008 |
| it | 1.52916 | 0.60293 | 13.35167 | 6.43 | 0.0147 |

**Bounds on condition number: 1.5265, 12.347**

**The above model is the best 3-variable model found.**

**Maximum R-Square Improvement: Step 4**

**Variable hsgpa Entered: R-Square = 0.4938 and C(p) = 10.9972**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 4 | 85.81727 | 21.45432 | 10.98 | <.0001 |
| Error | 45 | 87.96273 | 1.95473 | | |
| Corrected Total | 49 | 173.78000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 14.88652 | 3.19751 | 42.36909 | 21.68 | <.0001 |
| hsgpa | -1.40875 | 0.71827 | 7.51929 | 3.85 | 0.0560 |
| cgpa | -1.47450 | 0.45272 | 20.73596 | 10.61 | 0.0021 |
| unsure | 1.92727 | 0.50251 | 28.75347 | 14.71 | 0.0004 |
| it | 1.70503 | 0.59193 | 16.21843 | 8.30 | 0.0061 |

**Bounds on condition number: 1.5274, 20.715**

**The above model is the best 4-variable model found.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**

**Maximum R-Square Improvement: Step 5**

**Variable nremedial Entered: R-Square = 0.5275 and C(p) = 9.5997**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 5 | 91.67755 | 18.33551 | 9.83 | <.0001 |
| Error | 44 | 82.10245 | 1.86596 | | |
| Corrected Total | 49 | 173.78000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 14.27266 | 3.14321 | 38.47390 | 20.62 | <.0001 |
| hsgpa | -1.29133 | 0.70490 | 6.26223 | 3.36 | 0.0737 |
| cgpa | -1.48172 | 0.44234 | 20.93791 | 11.22 | 0.0017 |
| nremedial | 0.14606 | 0.08242 | 5.86028 | 3.14 | 0.0833 |
| unsure | 1.56564 | 0.53168 | 16.18017 | 8.67 | 0.0051 |
| it | 1.80333 | 0.58099 | 17.97711 | 9.63 | 0.0033 |

**Bounds on condition number: 1.5275, 33.475**

**The above model is the best 5-variable model found.**

**Maximum R-Square Improvement: Step 6**

**Variable voc Entered: R-Square = 0.5617 and C(p) = 8.1569**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 6 | 97.61578 | 16.26930 | 9.19 | <.0001 |
| Error | 43 | 76.16422 | 1.77126 | | |
| Corrected Total | 49 | 173.78000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 14.89874 | 3.08144 | 41.40710 | 23.38 | <.0001 |
| hsgpa | -1.35006 | 0.68752 | 6.82983 | 3.86 | 0.0561 |
| cgpa | -1.54132 | 0.43219 | 22.52764 | 12.72 | 0.0009 |
| nremedial | 0.20025 | 0.08558 | 9.69823 | 5.48 | 0.0240 |
| unsure | 1.24162 | 0.54741 | 9.11251 | 5.14 | 0.0284 |
| voc | -1.40058 | 0.76493 | 5.93823 | 3.35 | 0.0740 |
| it | 3.08776 | 0.90139 | 20.78466 | 11.73 | 0.0014 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**

**Maximum R-Square Improvement: Step 6**

**Bounds on condition number: 3.3853, 73.709**

**Maximum R-Square Improvement: Step 7**

**Variable it Removed: R-Square = 0.5712 and C(p) = 7.1986**
**Variable altscore Entered**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 6 | 99.26875 | 16.54479 | 9.55 | <.0001 |
| Error | 43 | 74.51125 | 1.73282 | | |
| Corrected Total | 49 | 173.78000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 12.97648 | 2.96038 | 33.29457 | 19.21 | <.0001 |
| hsgpa | -1.26550 | 0.67721 | 6.05109 | 3.49 | 0.0685 |
| cgpa | -1.20420 | 0.40834 | 15.06973 | 8.70 | 0.0051 |
| nremedial | 0.19246 | 0.08366 | 9.17087 | 5.29 | 0.0263 |
| unsure | 1.82602 | 0.52987 | 20.57883 | 11.88 | 0.0013 |
| voc | -3.36308 | 1.20931 | 13.40137 | 7.73 | 0.0080 |
| altscore | 1.72018 | 0.47804 | 22.43762 | 12.95 | 0.0008 |

**Bounds on condition number: 8.5562, 132.89**

**The above model is the best 6-variable model found.**

**Maximum R-Square Improvement: Step 8**

**Variable uninterested Entered: R-Square = 0.5935 and C(p) = 6.9514**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 7 | 103.14484 | 14.73498 | 8.76 | <.0001 |
| Error | 42 | 70.63516 | 1.68179 | | |
| Corrected Total | 49 | 173.78000 | | | |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**

**Maximum R-Square Improvement: Step 8**

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 13.51251 | 2.93776 | 35.58055 | 21.16 | <.0001 |
| hsgpa | -1.27255 | 0.66718 | 6.11838 | 3.64 | 0.0633 |
| cgpa | -1.20485 | 0.40228 | 15.08594 | 8.97 | 0.0046 |
| nremedial | 0.19034 | 0.08243 | 8.96775 | 5.33 | 0.0259 |
| unsure | 2.14514 | 0.56275 | 24.43756 | 14.53 | 0.0004 |
| uninterested | -0.84753 | 0.55827 | 3.87609 | 2.30 | 0.1365 |
| voc | -3.45966 | 1.19307 | 14.14183 | 8.41 | 0.0059 |
| altscore | 1.65512 | 0.47289 | 20.60186 | 12.25 | 0.0011 |

**Bounds on condition number: 8.627, 168.68**

**The above model is the best 7-variable model found.**

**Maximum R-Square Improvement: Step 9**

**Variable it Entered: R-Square = 0.6079 and C(p) = 7.5091**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 8 | 105.63249 | 13.20406 | 7.94 | <.0001 |
| Error | 41 | 68.14751 | 1.66213 | | |
| Corrected Total | 49 | 173.78000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 14.69635 | 3.07668 | 37.92463 | 22.82 | <.0001 |
| hsgpa | -1.34868 | 0.66618 | 6.81238 | 4.10 | 0.0495 |
| cgpa | -1.40584 | 0.43236 | 17.57330 | 10.57 | 0.0023 |
| nremedial | 0.20672 | 0.08303 | 10.30228 | 6.20 | 0.0169 |
| unsure | 1.86915 | 0.60322 | 15.95887 | 9.60 | 0.0035 |
| uninterested | -0.90406 | 0.55692 | 4.38005 | 2.64 | 0.1122 |
| voc | -2.94879 | 1.25744 | 9.14061 | 5.50 | 0.0239 |
| it | 1.69390 | 1.38461 | 2.48765 | 1.50 | 0.2282 |
| altscore | 0.94752 | 0.74535 | 2.68613 | 1.62 | 0.2108 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**

**Maximum R-Square Improvement: Step 9**

**Bounds on condition number: 21.685, 378.24**

**The above model is the best 8-variable model found.**

**Maximum R-Square Improvement: Step 10**

**Variable pg Entered: R-Square = 0.6129 and C(p) = 9.0003**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 9 | 106.51013 | 11.83446 | 7.04 | <.0001 |
| Error | 40 | 67.26987 | 1.68175 | | |
| Corrected Total | 49 | 173.78000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 15.51047 | 3.29358 | 37.29700 | 22.18 | <.0001 |
| pg | -0.33522 | 0.46403 | 0.87765 | 0.52 | 0.4742 |
| hsgpa | -1.46840 | 0.69029 | 7.61006 | 4.53 | 0.0396 |
| cgpa | -1.49277 | 0.45124 | 18.40473 | 10.94 | 0.0020 |
| nremedial | 0.23089 | 0.08997 | 11.07486 | 6.59 | 0.0141 |
| unsure | 1.82207 | 0.61026 | 14.99204 | 8.91 | 0.0048 |
| uninterested | -0.81826 | 0.57265 | 3.43375 | 2.04 | 0.1608 |
| voc | -3.23510 | 1.32548 | 10.01815 | 5.96 | 0.0192 |
| it | 1.72768 | 1.39354 | 2.58494 | 1.54 | 0.2223 |
| altscore | 1.03559 | 0.75958 | 3.12601 | 1.86 | 0.1804 |

**Bounds on condition number: 22.259, 457.93**

**The above model is the best 9-variable model found.**

**Maximum R-Square Improvement: Step 11**

**Variable nswitch Entered: R-Square = 0.6129 and C(p) = 11.0000**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 10 | 106.51069 | 10.65107 | 6.18 | <.0001 |
| Error | 39 | 67.26931 | 1.72485 | | |
| Corrected Total | 49 | 173.78000 | | | |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**

**Maximum R-Square Improvement: Step 11**

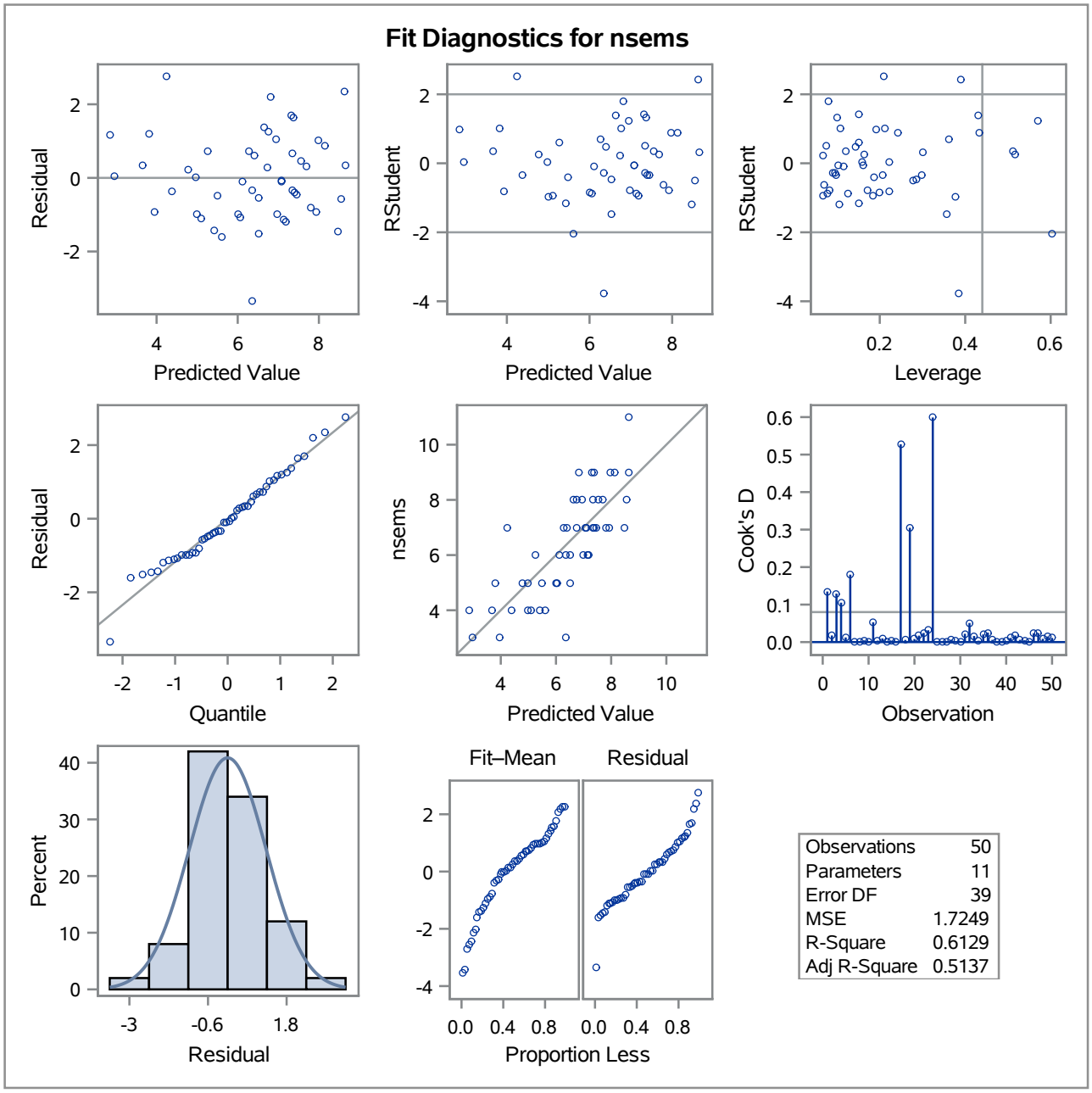
| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| **Intercept** | 15.53010 | 3.51005 | 33.76552 | 19.58 | <.0001 |
| **pg** | -0.33403 | 0.47459 | 0.85443 | 0.50 | 0.4857 |
| **hsgpa** | -1.46806 | 0.69935 | 7.60074 | 4.41 | 0.0423 |
| **cgpa** | -1.49818 | 0.54737 | 12.92163 | 7.49 | 0.0093 |
| **nremedial** | 0.23110 | 0.09184 | 10.92076 | 6.33 | 0.0161 |
| **nswitch** | -0.00378 | 0.21039 | 0.00055636 | 0.00 | 0.9858 |
| **unsure** | 1.82336 | 0.62218 | 14.81355 | 8.59 | 0.0056 |
| **uninterested** | -0.81875 | 0.58058 | 3.43026 | 1.99 | 0.1664 |
| **voc** | -3.23613 | 1.34358 | 10.00639 | 5.80 | 0.0208 |
| **it** | 1.73005 | 1.41745 | 2.56952 | 1.49 | 0.2296 |
| **altscore** | 1.03507 | 0.76981 | 3.11839 | 1.81 | 0.1865 |

**Bounds on condition number: 22.291, 540.85**

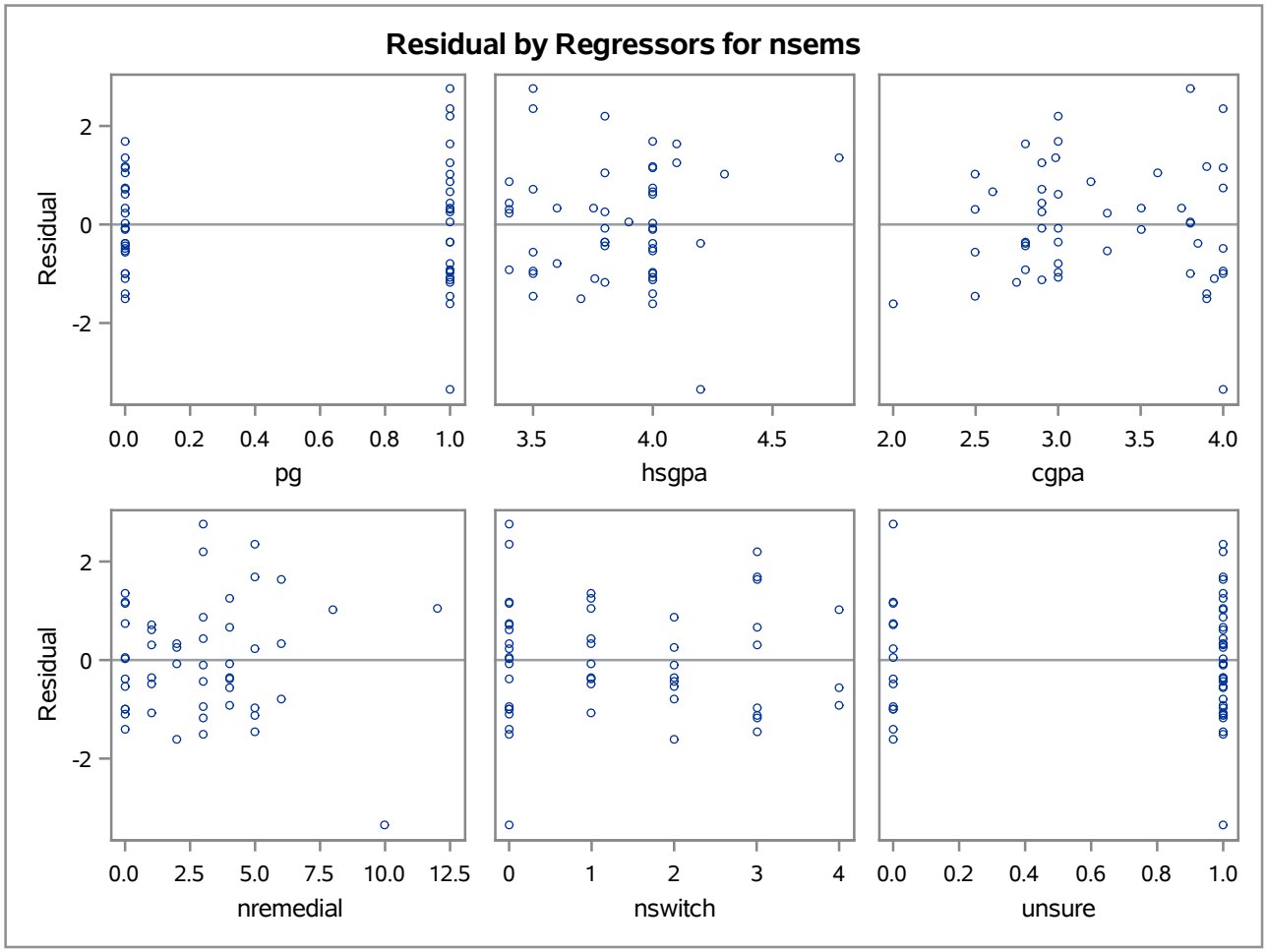
**The above model is the best 10-variable model found.**

**No further improvement in R-Square is possible.**

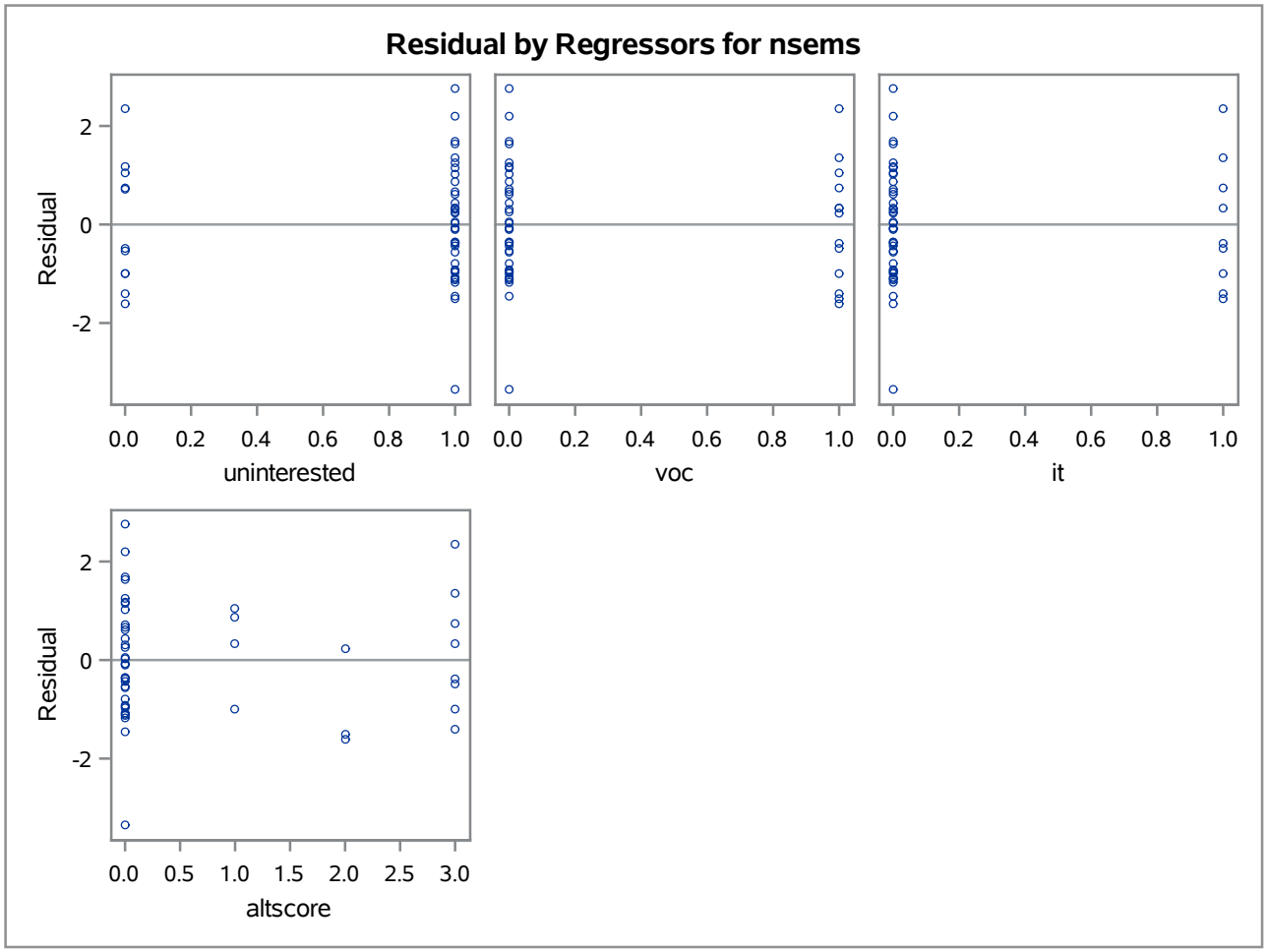
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nsems**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nswitch**

| | |
|---|---|
| Number of Observations Read | 50 |
| Number of Observations Used | 50 |

**Maximum R-Square Improvement: Step 1**

**Variable cgpa Entered: R-Square = 0.4890 and C(p) = -1.7600**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 1 | 42.29611 | 42.29611 | 45.93 | <.0001 |
| Error | 48 | 44.20389 | 0.92091 | | |
| Corrected Total | 49 | 86.50000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 6.84074 | 0.82876 | 62.74311 | 68.13 | <.0001 |
| cgpa | -1.70396 | 0.25143 | 42.29611 | 45.93 | <.0001 |

**Bounds on condition number: 1, 1**

**The above model is the best 1-variable model found.**

**Maximum R-Square Improvement: Step 2**

**Variable unsure Entered: R-Square = 0.5181 and C(p) = -2.2827**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 2 | 44.81676 | 22.40838 | 25.27 | <.0001 |
| Error | 47 | 41.68324 | 0.88688 | | |
| Corrected Total | 49 | 86.50000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.70689 | 1.05537 | 25.93322 | 29.24 | <.0001 |
| cgpa | -1.48091 | 0.27998 | 24.81279 | 27.98 | <.0001 |
| unsure | 0.56742 | 0.33657 | 2.52066 | 2.84 | 0.0984 |

**Bounds on condition number: 1.2875, 5.1502**

**The above model is the best 2-variable model found.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nswitch**

**Maximum R-Square Improvement: Step 3**

**Variable pg Entered: R-Square = 0.5373 and C(p) = -1.9406**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 3 | 46.47324 | 15.49108 | 17.80 | <.0001 |
| Error | 46 | 40.02676 | 0.87015 | | |
| Corrected Total | 49 | 86.50000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.15327 | 1.11973 | 18.43041 | 21.18 | <.0001 |
| pg | 0.39601 | 0.28702 | 1.65648 | 1.90 | 0.1743 |
| cgpa | -1.36058 | 0.29071 | 19.05973 | 21.90 | <.0001 |
| unsure | 0.51792 | 0.33531 | 2.07598 | 2.39 | 0.1293 |

**Bounds on condition number: 1.4149, 11.702**

**The above model is the best 3-variable model found.**

**Maximum R-Square Improvement: Step 4**

**Variable nremedial Entered: R-Square = 0.5410 and C(p) = -0.2622**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 4 | 46.79465 | 11.69866 | 13.26 | <.0001 |
| Error | 45 | 39.70535 | 0.88234 | | |
| Corrected Total | 49 | 86.50000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.16335 | 1.12767 | 18.49853 | 20.97 | <.0001 |
| pg | 0.34561 | 0.30084 | 1.16445 | 1.32 | 0.2567 |
| cgpa | -1.36971 | 0.29313 | 19.26497 | 21.83 | <.0001 |
| nremedial | 0.03523 | 0.05837 | 0.32142 | 0.36 | 0.5492 |
| unsure | 0.43630 | 0.36372 | 1.26959 | 1.44 | 0.2366 |

**Bounds on condition number: 1.5114, 22.237**

**The above model is the best 4-variable model found.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nswitch**

**Maximum R-Square Improvement: Step 5**

**Variable voc Entered: R-Square = 0.5424 and C(p) = 1.6107**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 5 | 46.92166 | 9.38433 | 10.43 | <.0001 |
| Error | 44 | 39.57834 | 0.89951 | | |
| Corrected Total | 49 | 86.50000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.14925 | 1.13920 | 18.37760 | 20.43 | <.0001 |
| pg | 0.31739 | 0.31290 | 0.92553 | 1.03 | 0.3160 |
| cgpa | -1.34702 | 0.30207 | 17.88735 | 19.89 | <.0001 |
| nremedial | 0.04002 | 0.06030 | 0.39628 | 0.44 | 0.5103 |
| unsure | 0.40112 | 0.37899 | 1.00765 | 1.12 | 0.2956 |
| voc | -0.13206 | 0.35146 | 0.12701 | 0.14 | 0.7089 |

**Bounds on condition number: 1.6096, 35.895**

**The above model is the best 5-variable model found.**

**Maximum R-Square Improvement: Step 6**

**Variable it Entered: R-Square = 0.5478 and C(p) = 3.1496**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 6 | 47.38234 | 7.89706 | 8.68 | <.0001 |
| Error | 43 | 39.11766 | 0.90971 | | |
| Corrected Total | 49 | 86.50000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.42832 | 1.21091 | 18.28146 | 20.10 | <.0001 |
| pg | 0.27101 | 0.32135 | 0.64701 | 0.71 | 0.4037 |
| cgpa | -1.42623 | 0.32353 | 17.67934 | 19.43 | <.0001 |
| nremedial | 0.05785 | 0.06561 | 0.70725 | 0.78 | 0.3828 |
| unsure | 0.33071 | 0.39377 | 0.64168 | 0.71 | 0.4056 |
| voc | -0.45471 | 0.57489 | 0.56913 | 0.63 | 0.4333 |
| it | 0.46578 | 0.65454 | 0.46068 | 0.51 | 0.4805 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nswitch**

**Maximum R-Square Improvement: Step 6**

**Bounds on condition number: 3.4949, 80.606**

**The above model is the best 6-variable model found.**

**Maximum R-Square Improvement: Step 7**

**Variable uninterested Entered: R-Square = 0.5485 and C(p) = 5.0840**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 7 | 47.44791 | 6.77827 | 7.29 | <.0001 |
| Error | 42 | 39.05209 | 0.92981 | | |
| Corrected Total | 49 | 86.50000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.47044 | 1.23444 | 18.25977 | 19.64 | <.0001 |
| pg | 0.28728 | 0.33061 | 0.70206 | 0.76 | 0.3898 |
| cgpa | -1.42165 | 0.32753 | 17.51720 | 18.84 | <.0001 |
| nremedial | 0.05673 | 0.06647 | 0.67720 | 0.73 | 0.3983 |
| unsure | 0.37621 | 0.43340 | 0.70061 | 0.75 | 0.3903 |
| uninterested | -0.11173 | 0.42072 | 0.06557 | 0.07 | 0.7919 |
| voc | -0.47636 | 0.58689 | 0.61256 | 0.66 | 0.4216 |
| it | 0.45563 | 0.66283 | 0.43935 | 0.47 | 0.4956 |

**Bounds on condition number: 3.5637, 108.7**

**The above model is the best 7-variable model found.**

**Maximum R-Square Improvement: Step 8**

**Variable altscore Entered: R-Square = 0.5492 and C(p) = 7.0298**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 8 | 47.50207 | 5.93776 | 6.24 | <.0001 |
| Error | 41 | 38.99793 | 0.95117 | | |
| Corrected Total | 49 | 86.50000 | | | |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nswitch**

**Maximum R-Square Improvement: Step 8**

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.56511 | 1.31006 | 17.16410 | 18.05 | 0.0001 |
| pg | 0.30024 | 0.33877 | 0.74713 | 0.79 | 0.3806 |
| cgpa | -1.43757 | 0.33792 | 17.21367 | 18.10 | 0.0001 |
| nremedial | 0.05494 | 0.06765 | 0.62738 | 0.66 | 0.4214 |
| unsure | 0.34402 | 0.45864 | 0.53513 | 0.56 | 0.4575 |
| uninterested | -0.12712 | 0.43038 | 0.08298 | 0.09 | 0.7692 |
| voc | -0.28632 | 0.99327 | 0.07904 | 0.08 | 0.7746 |
| it | 0.64626 | 1.04290 | 0.36525 | 0.38 | 0.5389 |
| altscore | -0.13629 | 0.57113 | 0.05416 | 0.06 | 0.8126 |

**Bounds on condition number: 22.25, 396.02**

**The above model is the best 8-variable model found.**

**Maximum R-Square Improvement: Step 9**

**Variable hsgpa Entered: R-Square = 0.5495 and C(p) = 9.0003**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 9 | 47.53149 | 5.28128 | 5.42 | <.0001 |
| Error | 40 | 38.96851 | 0.97421 | | |
| Corrected Total | 49 | 86.50000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.19540 | 2.50677 | 4.18468 | 4.30 | 0.0447 |
| pg | 0.31498 | 0.35318 | 0.77487 | 0.80 | 0.3778 |
| hsgpa | 0.09130 | 0.52539 | 0.02942 | 0.03 | 0.8629 |
| cgpa | -1.43209 | 0.34344 | 16.93882 | 17.39 | 0.0002 |
| nremedial | 0.05466 | 0.06848 | 0.62062 | 0.64 | 0.4295 |
| unsure | 0.34108 | 0.46447 | 0.52534 | 0.54 | 0.4670 |
| uninterested | -0.12983 | 0.43585 | 0.08645 | 0.09 | 0.7673 |
| voc | -0.27151 | 1.00884 | 0.07057 | 0.07 | 0.7892 |
| it | 0.62807 | 1.06063 | 0.34162 | 0.35 | 0.5571 |
| altscore | -0.13832 | 0.57812 | 0.05576 | 0.06 | 0.8121 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nswitch**

**Maximum R-Square Improvement: Step 9**

**Bounds on condition number: 22.259, 457.93**

**The above model is the best 9-variable model found.**

**Maximum R-Square Improvement: Step 10**

**Variable nsems Entered: R-Square = 0.5495 and C(p) = 11.0000**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 10 | 47.53182 | 4.75318 | 4.76 | 0.0002 |
| Error | 39 | 38.96818 | 0.99918 | | |
| Corrected Total | 49 | 86.50000 | | | |

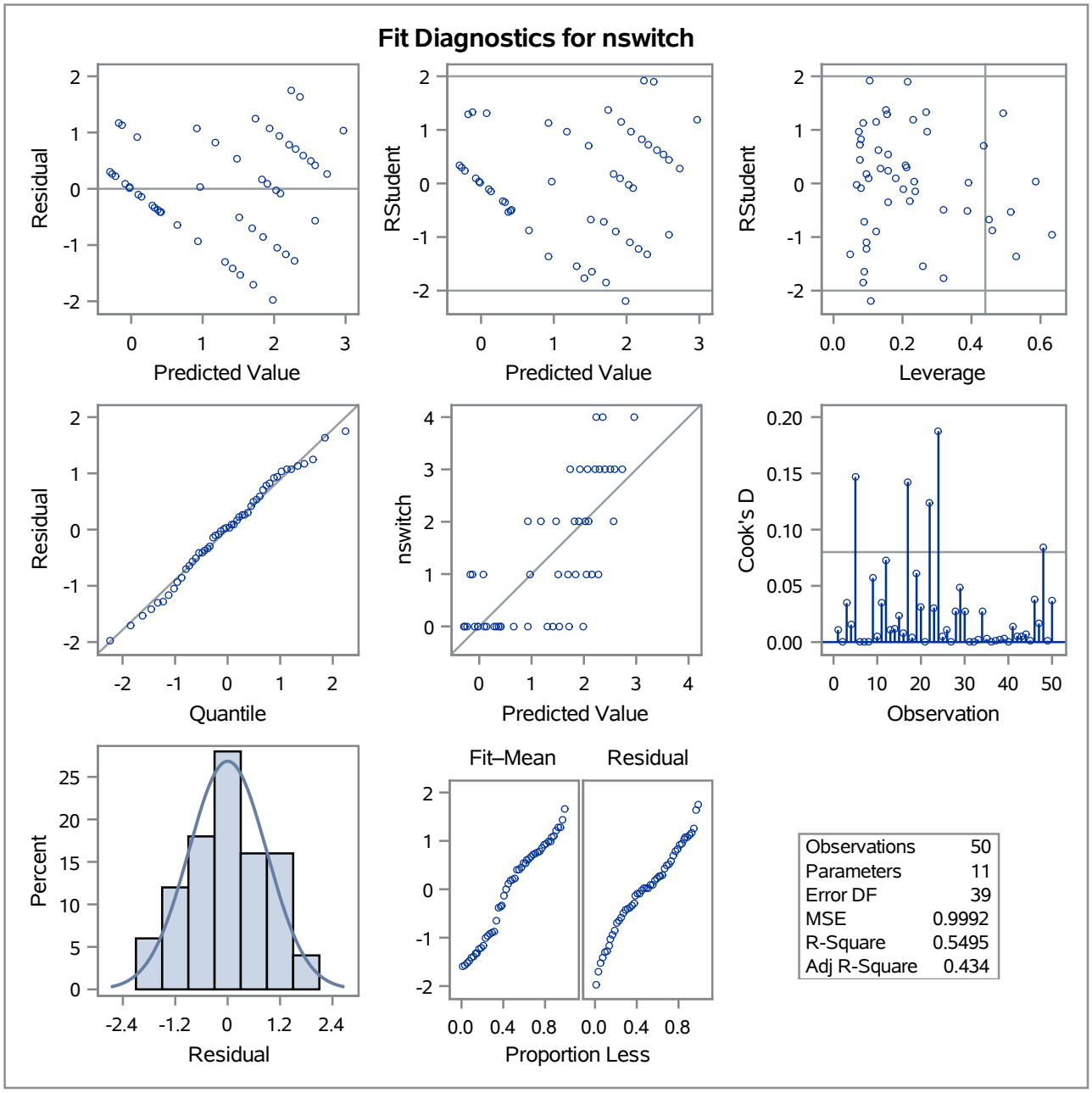
| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.22935 | 3.16517 | 2.72739 | 2.73 | 0.1065 |
| pg | 0.31425 | 0.36000 | 0.76133 | 0.76 | 0.3881 |
| hsgpa | 0.08809 | 0.56137 | 0.02460 | 0.02 | 0.8761 |
| cgpa | -1.43535 | 0.39252 | 13.36076 | 13.37 | 0.0008 |
| nremedial | 0.05516 | 0.07484 | 0.54279 | 0.54 | 0.4655 |
| nsems | -0.00219 | 0.12187 | 0.00032229 | 0.00 | 0.9858 |
| unsure | 0.34507 | 0.52017 | 0.43970 | 0.44 | 0.5110 |
| uninterested | -0.13162 | 0.45252 | 0.08454 | 0.08 | 0.7727 |
| voc | -0.27859 | 1.09512 | 0.06466 | 0.06 | 0.8005 |
| it | 0.63185 | 1.09458 | 0.33295 | 0.33 | 0.5671 |
| altscore | -0.13605 | 0.59894 | 0.05156 | 0.05 | 0.8215 |

**Bounds on condition number: 23.293, 578.1**

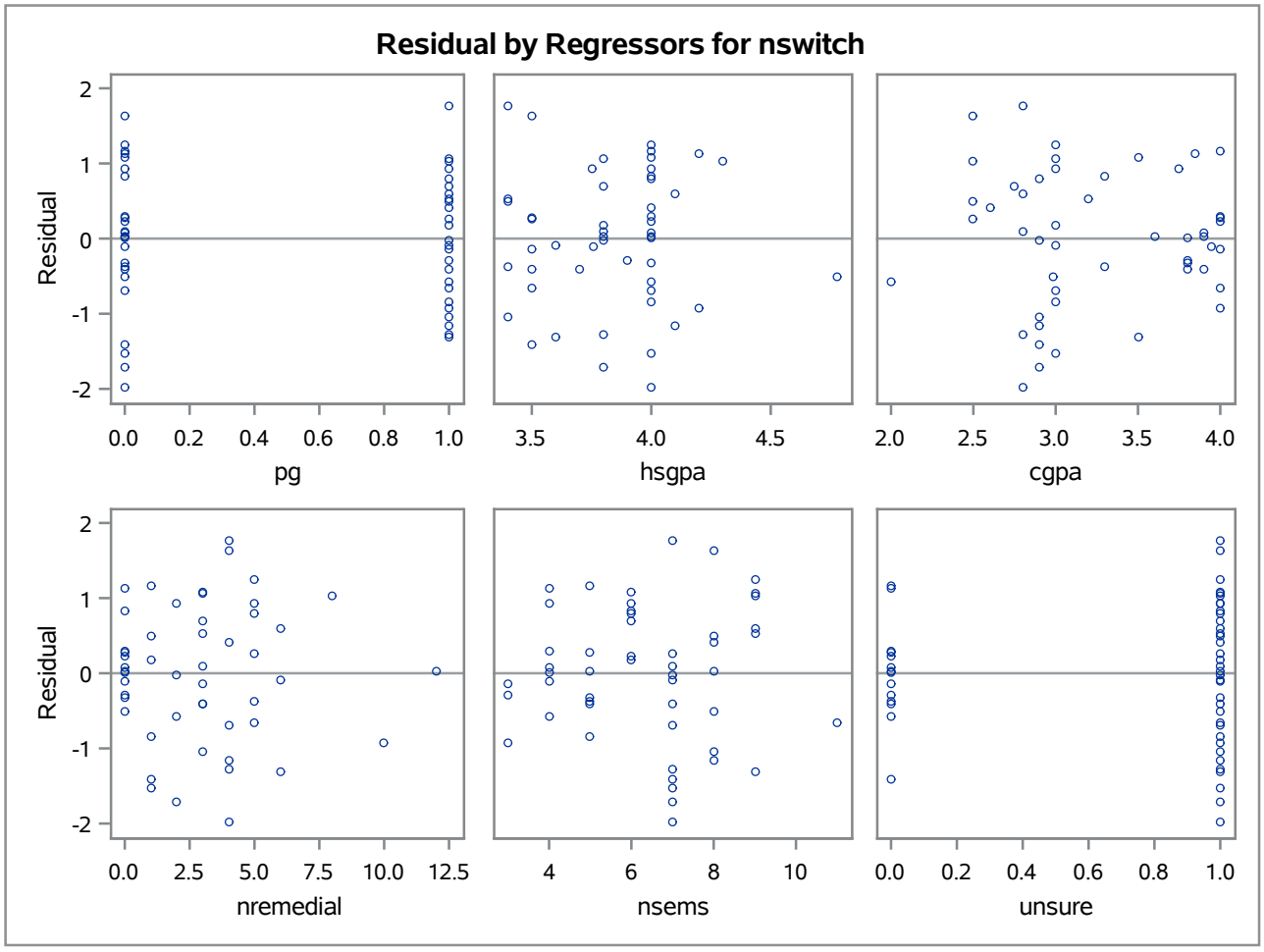
**The above model is the best 10-variable model found.**

**No further improvement in R-Square is possible.**

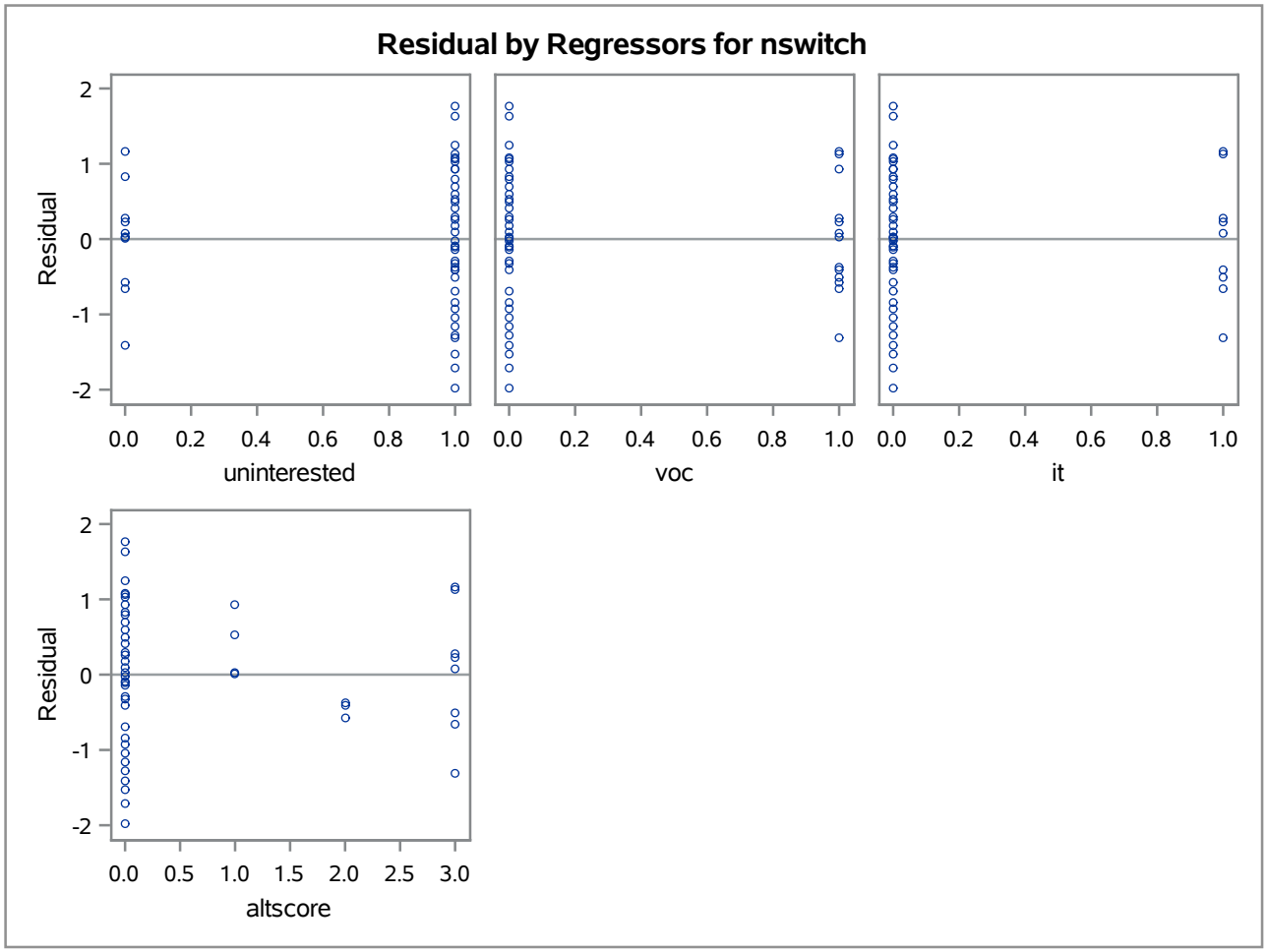
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nswitch**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nswitch**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nswitch**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**

| | |
|---|---|
| Number of Observations Read | 50 |
| Number of Observations Used | 50 |

**Maximum R-Square Improvement: Step 1**

**Variable unsure Entered: R-Square = 0.1946 and C(p) = 16.2784**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 1 | 67.89143 | 67.89143 | 11.60 | 0.0013 |
| Error | 48 | 280.92857 | 5.85268 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 1.07143 | 0.64657 | 16.07143 | 2.75 | 0.1040 |
| unsure | 2.59524 | 0.76199 | 67.89143 | 11.60 | 0.0013 |

**Bounds on condition number: 1, 1**

**The above model is the best 1-variable model found.**

**Maximum R-Square Improvement: Step 2**

**Variable pg Entered: R-Square = 0.2556 and C(p) = 13.5620**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 2 | 89.16615 | 44.58308 | 8.07 | 0.0010 |
| Error | 47 | 259.65385 | 5.52455 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 0.68462 | 0.65838 | 5.97360 | 1.08 | 0.3037 |
| pg | 1.35385 | 0.68990 | 21.27473 | 3.85 | 0.0557 |
| unsure | 2.19231 | 0.76826 | 44.98615 | 8.14 | 0.0064 |

**Bounds on condition number: 1.0769, 4.3077**

**The above model is the best 2-variable model found.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**

**Maximum R-Square Improvement: Step 3**

**Variable voc Entered: R-Square = 0.2908 and C(p) = 12.8414**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 3 | 101.43836 | 33.81279 | 6.29 | 0.0011 |
| Error | 46 | 247.38164 | 5.37786 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -0.01256 | 0.79684 | 0.00134 | 0.00 | 0.9875 |
| pg | 1.62126 | 0.70332 | 28.57634 | 5.31 | 0.0257 |
| unsure | 2.52657 | 0.78963 | 55.05817 | 10.24 | 0.0025 |
| voc | 1.24155 | 0.82188 | 12.27220 | 2.28 | 0.1377 |

**Bounds on condition number: 1.2083, 10.58**

**Maximum R-Square Improvement: Step 4**

**Variable pg Removed: R-Square = 0.3021 and C(p) = 11.9681**
**Variable it Entered**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 3 | 105.37788 | 35.12596 | 6.64 | 0.0008 |
| Error | 46 | 243.44212 | 5.29222 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 0.73709 | 0.73078 | 5.38397 | 1.02 | 0.3184 |
| unsure | 2.79092 | 0.77121 | 69.30788 | 13.10 | 0.0007 |
| voc | 3.11745 | 1.23432 | 33.75835 | 6.38 | 0.0151 |
| it | -3.42828 | 1.38308 | 32.51586 | 6.14 | 0.0169 |

**Bounds on condition number: 2.7694, 19.71**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**

**Maximum R-Square Improvement: Step 5**

**Variable unsure Removed: R-Square = 0.3090 and C(p) = 11.4379**
**Variable nsems Entered**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 3 | 107.76968 | 35.92323 | 6.86 | 0.0006 |
| Error | 46 | 241.05032 | 5.24022 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -1.25528 | 1.21038 | 5.63620 | 1.08 | 0.3051 |
| nsems | 0.65330 | 0.17662 | 71.69968 | 13.68 | 0.0006 |
| voc | 3.07545 | 1.22535 | 33.01018 | 6.30 | 0.0157 |
| it | -4.29108 | 1.38885 | 50.02300 | 9.55 | 0.0034 |

**Bounds on condition number: 2.7564, 19.522**

**Maximum R-Square Improvement: Step 6**

**Variable it Removed: R-Square = 0.3471 and C(p) = 8.4904**
**Variable altscore Entered**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 3 | 121.06511 | 40.35504 | 8.15 | 0.0002 |
| Error | 46 | 227.75489 | 4.95119 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -1.02265 | 1.16861 | 3.79159 | 0.77 | 0.3861 |
| nsems | 0.63956 | 0.17090 | 69.33696 | 14.00 | 0.0005 |
| voc | 6.47255 | 1.93174 | 55.58561 | 11.23 | 0.0016 |
| altscore | -2.64795 | 0.74046 | 63.31843 | 12.79 | 0.0008 |

**Bounds on condition number: 7.2504, 46.38**

**The above model is the best 3-variable model found.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**

**Maximum R-Square Improvement: Step 7**

**Variable pg Entered: R-Square = 0.4253 and C(p) = 4.4373**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 4 | 148.36982 | 37.09246 | 8.33 | <.0001 |
| Error | 45 | 200.45018 | 4.45445 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -1.32731 | 1.11525 | 6.30947 | 1.42 | 0.2402 |
| pg | 1.60845 | 0.64966 | 27.30471 | 6.13 | 0.0171 |
| nsems | 0.53977 | 0.16704 | 46.51169 | 10.44 | 0.0023 |
| voc | 7.08277 | 1.84878 | 65.37781 | 14.68 | 0.0004 |
| altscore | -2.67963 | 0.70245 | 64.82123 | 14.55 | 0.0004 |

**Bounds on condition number: 7.3816, 67.366**

**The above model is the best 4-variable model found.**

**Maximum R-Square Improvement: Step 8**

**Variable cgpa Entered: R-Square = 0.4429 and C(p) = 5.0779**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 5 | 154.50218 | 30.90044 | 7.00 | <.0001 |
| Error | 44 | 194.31782 | 4.41631 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -4.76820 | 3.12406 | 10.28801 | 2.33 | 0.1341 |
| pg | 1.78367 | 0.66374 | 31.89271 | 7.22 | 0.0101 |
| cgpa | 0.85257 | 0.72351 | 6.13236 | 1.39 | 0.2450 |
| nsems | 0.64442 | 0.18855 | 51.58758 | 11.68 | 0.0014 |
| voc | 7.38712 | 1.85888 | 69.74414 | 15.79 | 0.0003 |
| altscore | -2.92346 | 0.72940 | 70.94536 | 16.06 | 0.0002 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**

**Maximum R-Square Improvement: Step 8**

**Bounds on condition number: 7.8159, 98.577**

**The above model is the best 5-variable model found.**

**Maximum R-Square Improvement: Step 9**

**Variable unsure Entered: R-Square = 0.4558 and C(p) = 6.0787**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 6 | 159.00926 | 26.50154 | 6.00 | 0.0001 |
| Error | 43 | 189.81074 | 4.41420 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -4.92142 | 3.12699 | 10.93405 | 2.48 | 0.1229 |
| pg | 1.75114 | 0.66437 | 30.66761 | 6.95 | 0.0116 |
| cgpa | 0.90214 | 0.72500 | 6.83473 | 1.55 | 0.2201 |
| nsems | 0.52896 | 0.22043 | 25.41966 | 5.76 | 0.0208 |
| unsure | 0.93001 | 0.92038 | 4.50707 | 1.02 | 0.3179 |
| voc | 6.93266 | 1.91208 | 58.02819 | 13.15 | 0.0008 |
| altscore | -2.63897 | 0.78169 | 50.31032 | 11.40 | 0.0016 |

**Bounds on condition number: 8.981, 142.68**

**Maximum R-Square Improvement: Step 10**

**Variable altscore Removed: R-Square = 0.4625 and C(p) = 5.5662**
**Variable it Entered**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 6 | 161.32097 | 26.88683 | 6.17 | 0.0001 |
| Error | 43 | 187.49903 | 4.36044 | | |
| Corrected Total | 49 | 348.82000 | | | |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**

**Maximum R-Square Improvement: Step 10**

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -7.12892 | 3.31670 | 20.14490 | 4.62 | 0.0373 |
| pg | 1.64530 | 0.65813 | 27.25229 | 6.25 | 0.0163 |
| cgpa | 1.39059 | 0.76496 | 14.40946 | 3.30 | 0.0761 |
| nsems | 0.50502 | 0.21616 | 23.80089 | 5.46 | 0.0242 |
| unsure | 1.86125 | 0.85508 | 20.65996 | 4.74 | 0.0350 |
| voc | 3.98787 | 1.14843 | 52.57831 | 12.06 | 0.0012 |
| it | -4.85810 | 1.39845 | 52.62203 | 12.07 | 0.0012 |

**Bounds on condition number: 3.3099, 77.812**

**The above model is the best 6-variable model found.**

**Maximum R-Square Improvement: Step 11**

**Variable mil Entered: R-Square = 0.4783 and C(p) = 6.3420**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 7 | 166.84305 | 23.83472 | 5.50 | 0.0002 |
| Error | 42 | 181.97695 | 4.33278 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -6.59781 | 3.33947 | 16.91268 | 3.90 | 0.0548 |
| pg | 1.71345 | 0.65881 | 29.30848 | 6.76 | 0.0128 |
| cgpa | 1.27351 | 0.76955 | 11.86579 | 2.74 | 0.1054 |
| nsems | 0.54831 | 0.21886 | 27.19514 | 6.28 | 0.0162 |
| unsure | 1.35203 | 0.96436 | 8.51660 | 1.97 | 0.1683 |
| mil | -1.37499 | 1.21795 | 5.52208 | 1.27 | 0.2653 |
| voc | 4.52480 | 1.23965 | 57.72596 | 13.32 | 0.0007 |
| it | -4.32286 | 1.47243 | 37.34583 | 8.62 | 0.0054 |

**Bounds on condition number: 3.6928, 122.89**

**The above model is the best 7-variable model found.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**

**Maximum R-Square Improvement: Step 12**

**Variable hsgpa Entered: R-Square = 0.4886 and C(p) = 7.5476**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 8 | 170.42679 | 21.30335 | 4.90 | 0.0003 |
| Error | 41 | 178.39321 | 4.35105 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -11.39160 | 6.25298 | 14.44074 | 3.32 | 0.0758 |
| pg | 1.86128 | 0.67999 | 32.59939 | 7.49 | 0.0091 |
| hsgpa | 1.05190 | 1.15905 | 3.58374 | 0.82 | 0.3694 |
| cgpa | 1.41183 | 0.78609 | 14.03510 | 3.23 | 0.0799 |
| nsems | 0.60855 | 0.22914 | 30.68804 | 7.05 | 0.0112 |
| unsure | 1.17600 | 0.98566 | 6.19374 | 1.42 | 0.2397 |
| mil | -1.44849 | 1.22320 | 6.10140 | 1.40 | 0.2432 |
| voc | 4.72125 | 1.26097 | 60.99530 | 14.02 | 0.0006 |
| it | -4.64416 | 1.51740 | 40.75729 | 9.37 | 0.0039 |

**Bounds on condition number: 3.9054, 156.02**

**The above model is the best 8-variable model found.**

**Maximum R-Square Improvement: Step 13**

**Variable nswitch Entered: R-Square = 0.4955 and C(p) = 9.0098**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 9 | 172.85266 | 19.20585 | 4.37 | 0.0005 |
| Error | 40 | 175.96734 | 4.39918 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -12.49089 | 6.45939 | 16.45036 | 3.74 | 0.0602 |
| pg | 1.76274 | 0.69650 | 28.17791 | 6.41 | 0.0154 |
| hsgpa | 1.01429 | 1.16655 | 3.32579 | 0.76 | 0.3898 |
| cgpa | 1.74565 | 0.90931 | 16.21279 | 3.69 | 0.0620 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**

**Maximum R-Square Improvement: Step 13**

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| nswitch | 0.24753 | 0.33334 | 2.42587 | 0.55 | 0.4621 |
| nsems | 0.59888 | 0.23078 | 29.62619 | 6.73 | 0.0132 |
| unsure | 1.08894 | 0.99801 | 5.23739 | 1.19 | 0.2818 |
| mil | -1.39930 | 1.23173 | 5.67756 | 1.29 | 0.2627 |
| voc | 4.75219 | 1.26861 | 61.73059 | 14.03 | 0.0006 |
| it | -4.69898 | 1.52756 | 41.62777 | 9.46 | 0.0038 |

**Bounds on condition number: 3.9145, 202.23**

**The above model is the best 9-variable model found.**

**Maximum R-Square Improvement: Step 14**

**Variable uninterested Entered: R-Square = 0.4957 and C(p) = 11.0000**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 10 | 172.89677 | 17.28968 | 3.83 | 0.0012 |
| Error | 39 | 175.92323 | 4.51085 | | |
| Corrected Total | 49 | 348.82000 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | -12.61326 | 6.65689 | 16.19459 | 3.59 | 0.0656 |
| pg | 1.74851 | 0.71981 | 26.61678 | 5.90 | 0.0198 |
| hsgpa | 1.01827 | 1.18194 | 3.34804 | 0.74 | 0.3942 |
| cgpa | 1.75411 | 0.92475 | 16.23010 | 3.60 | 0.0653 |
| nswitch | 0.24904 | 0.33789 | 2.45045 | 0.54 | 0.4655 |
| nsems | 0.60437 | 0.24019 | 28.56004 | 6.33 | 0.0161 |
| unsure | 1.04630 | 1.09875 | 4.09046 | 0.91 | 0.3468 |
| uninterested | 0.09517 | 0.96241 | 0.04411 | 0.01 | 0.9217 |
| mil | -1.38654 | 1.25392 | 5.51548 | 1.22 | 0.2756 |
| voc | 4.77351 | 1.30259 | 60.57896 | 13.43 | 0.0007 |
| it | -4.71243 | 1.55279 | 41.54528 | 9.21 | 0.0043 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**

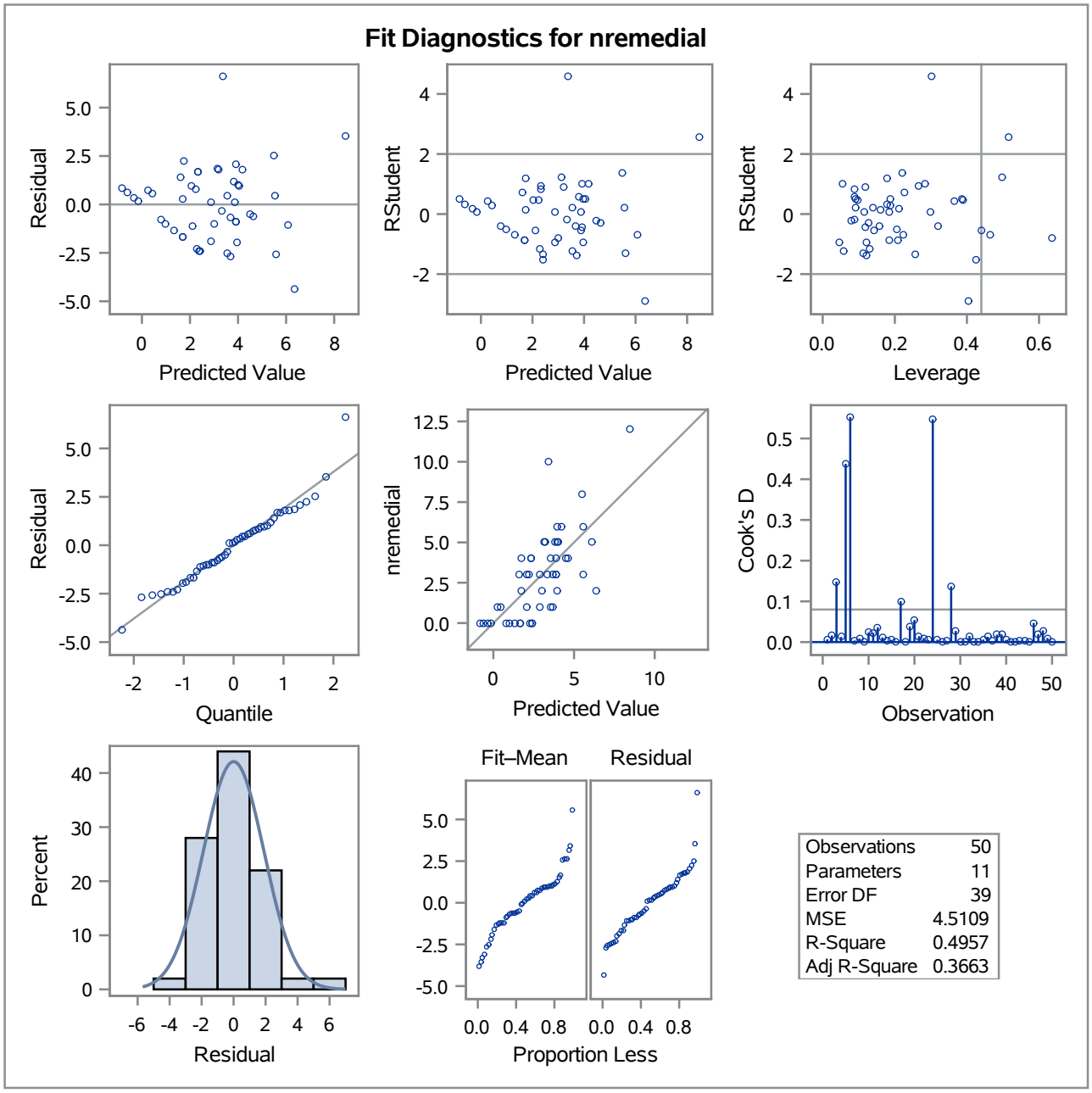
**Maximum R-Square Improvement: Step 14**

**Bounds on condition number: 3.9448, 250.15**

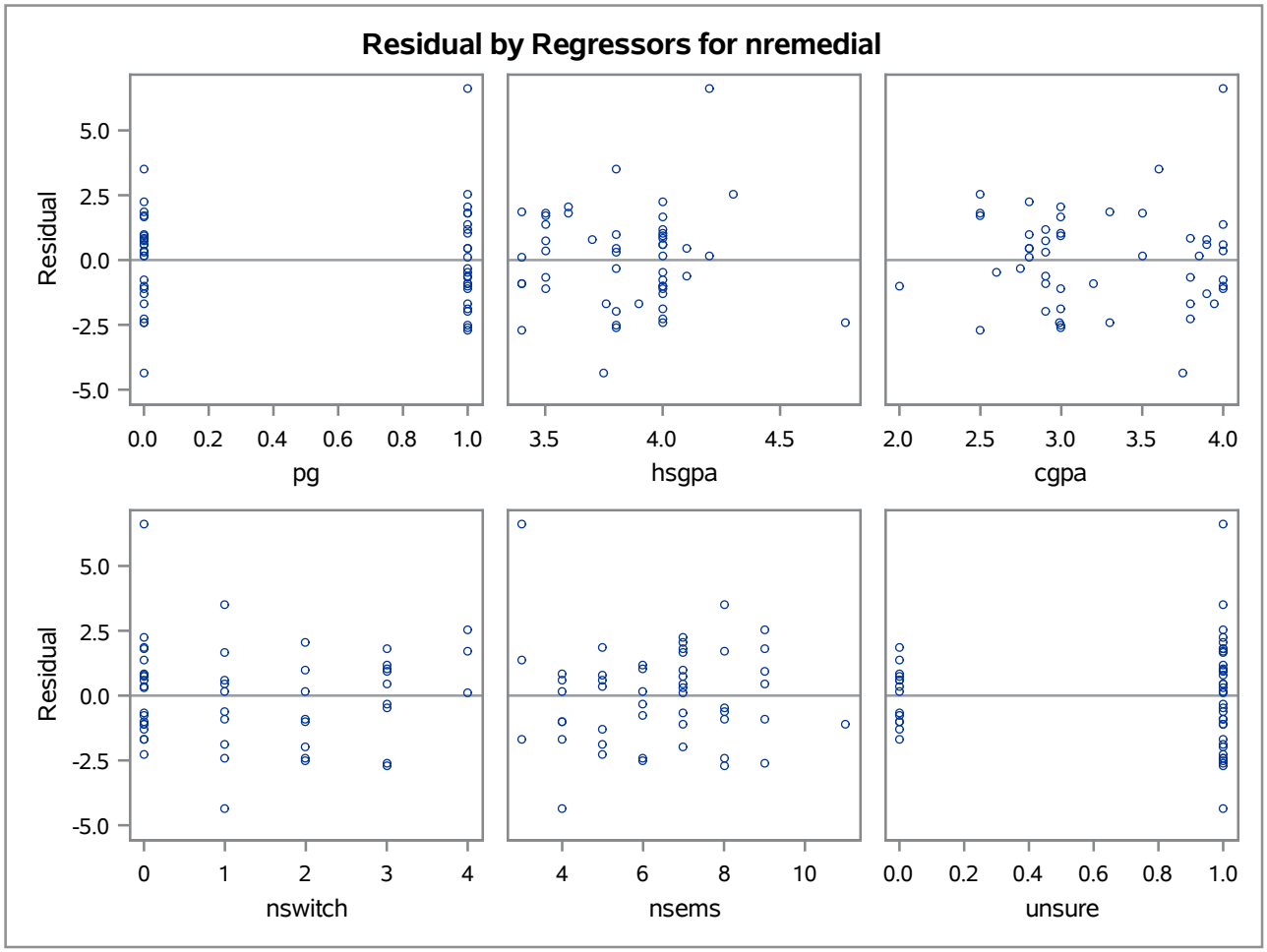
**The above model is the best 10-variable model found.**

**No further improvement in R-Square is possible.**

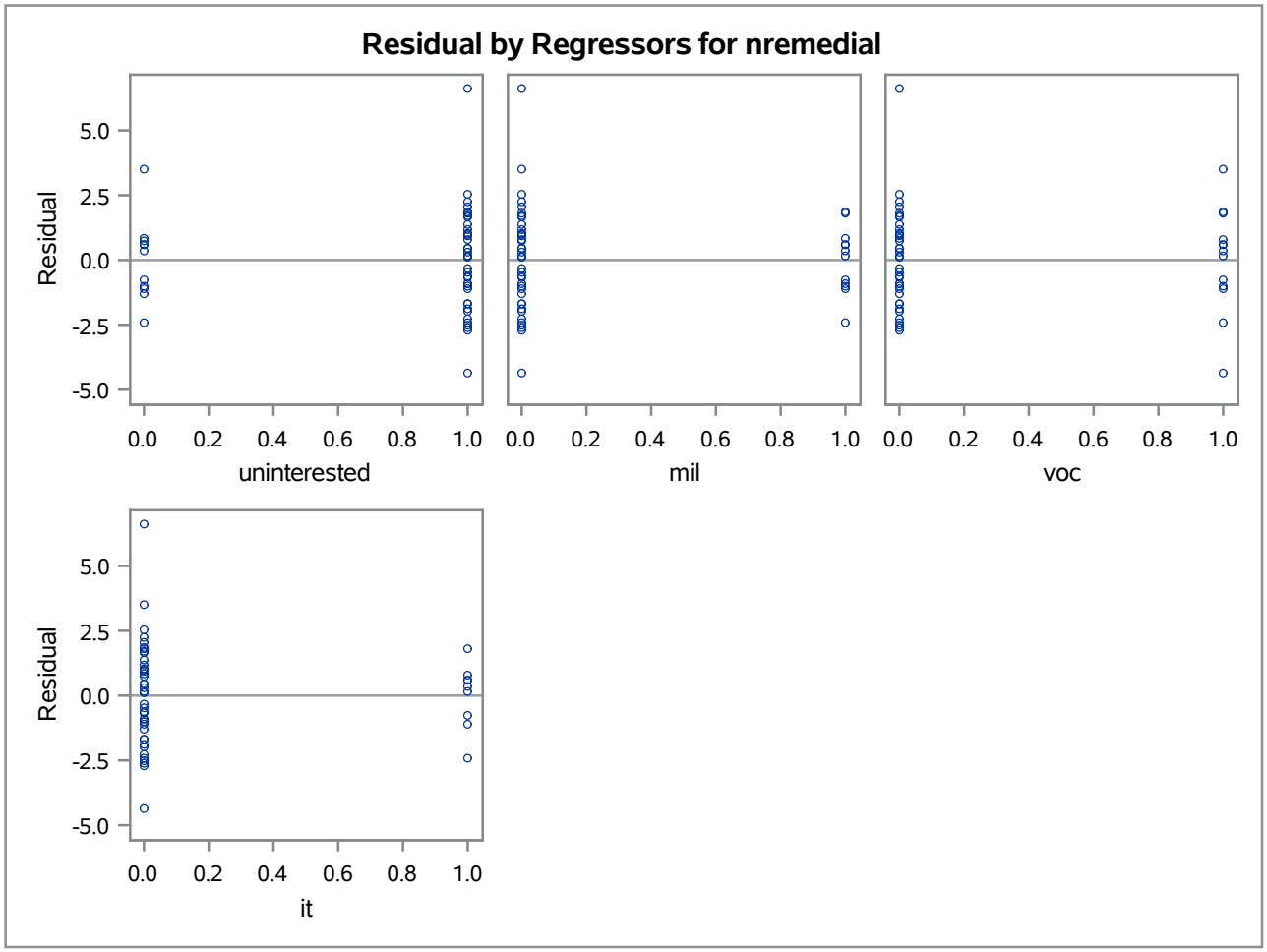
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: nremedial**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**

| | |
|---|---|
| Number of Observations Read | 50 |
| Number of Observations Used | 50 |

**Maximum R-Square Improvement: Step 1**

**Variable nswitch Entered: R-Square = 0.4890 and C(p) = 14.1186**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 1 | 7.12302 | 7.12302 | 45.93 | <.0001 |
| Error | 48 | 7.44431 | 0.15509 | | |
| Corrected Total | 49 | 14.56734 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 3.62473 | 0.07831 | 332.30848 | 2142.68 | <.0001 |
| nswitch | -0.28696 | 0.04234 | 7.12302 | 45.93 | <.0001 |

**Bounds on condition number: 1, 1**

**The above model is the best 1-variable model found.**

**Maximum R-Square Improvement: Step 2**

**Variable it Entered: R-Square = 0.5485 and C(p) = 9.1140**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 2 | 7.99038 | 3.99519 | 28.55 | <.0001 |
| Error | 47 | 6.57696 | 0.13994 | | |
| Corrected Total | 49 | 14.56734 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 3.51126 | 0.08724 | 226.70738 | 1620.09 | <.0001 |
| nswitch | -0.25024 | 0.04284 | 4.77422 | 34.12 | <.0001 |
| it | 0.36515 | 0.14667 | 0.86735 | 6.20 | 0.0164 |

**Bounds on condition number: 1.1345, 4.5381**

**The above model is the best 2-variable model found.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**

**Maximum R-Square Improvement: Step 3**

**Variable nsems Entered: R-Square = 0.6081 and C(p) = 4.1058**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 3 | 8.85819 | 2.95273 | 23.79 | <.0001 |
| Error | 46 | 5.70915 | 0.12411 | | |
| Corrected Total | 49 | 14.56734 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 3.93621 | 0.18049 | 59.02969 | 475.62 | <.0001 |
| nswitch | -0.19515 | 0.04541 | 2.29252 | 18.47 | <.0001 |
| nsems | -0.07954 | 0.03008 | 0.86781 | 6.99 | 0.0112 |
| it | 0.42556 | 0.14001 | 1.14671 | 9.24 | 0.0039 |

**Bounds on condition number: 1.437, 11.608**

**The above model is the best 3-variable model found.**

**Maximum R-Square Improvement: Step 4**

**Variable altscore Entered: R-Square = 0.6220 and C(p) = 4.4685**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 4 | 9.06093 | 2.26523 | 18.51 | <.0001 |
| Error | 45 | 5.50641 | 0.12236 | | |
| Corrected Total | 49 | 14.56734 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 3.99491 | 0.18492 | 57.10603 | 466.69 | <.0001 |
| nswitch | -0.19899 | 0.04518 | 2.37312 | 19.39 | <.0001 |
| nsems | -0.08367 | 0.03004 | 0.94941 | 7.76 | 0.0078 |
| it | 0.78627 | 0.31282 | 0.77307 | 6.32 | 0.0156 |
| altscore | -0.13567 | 0.10540 | 0.20274 | 1.66 | 0.2046 |

**Bounds on condition number: 5.9018, 58.067**

**The above model is the best 4-variable model found.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**

### Maximum R-Square Improvement: Step 5

### Variable nremedial Entered: R-Square = 0.6377 and C(p) = 4.6172

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 5 | 9.29017 | 1.85803 | 15.49 | <.0001 |
| Error | 44 | 5.27717 | 0.11994 | | |
| Corrected Total | 49 | 14.56734 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 4.01482 | 0.18365 | 57.32196 | 477.94 | <.0001 |
| nswitch | -0.20504 | 0.04495 | 2.49576 | 20.81 | <.0001 |
| nremedial | 0.02936 | 0.02123 | 0.22924 | 1.91 | 0.1738 |
| nsems | -0.09948 | 0.03186 | 1.16923 | 9.75 | 0.0032 |
| it | 0.88207 | 0.31735 | 0.92654 | 7.73 | 0.0080 |
| altscore | -0.15729 | 0.10551 | 0.26652 | 2.22 | 0.1432 |

### Bounds on condition number: 6.1972, 82.296

### Maximum R-Square Improvement: Step 6

### Variable altscore Removed: R-Square = 0.6382 and C(p) = 4.5681
### Variable voc Entered

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 5 | 9.29625 | 1.85925 | 15.52 | <.0001 |
| Error | 44 | 5.27109 | 0.11980 | | |
| Corrected Total | 49 | 14.56734 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 4.02728 | 0.18566 | 56.36767 | 470.52 | <.0001 |
| nswitch | -0.20522 | 0.04493 | 2.49959 | 20.87 | <.0001 |
| nremedial | 0.03660 | 0.02243 | 0.31898 | 2.66 | 0.1099 |
| nsems | -0.10528 | 0.03263 | 1.24669 | 10.41 | 0.0024 |
| voc | -0.29899 | 0.19821 | 0.27261 | 2.28 | 0.1386 |
| it | 0.73888 | 0.23324 | 1.20223 | 10.04 | 0.0028 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**

**Maximum R-Square Improvement: Step 6**

**Bounds on condition number: 3.3513, 54.866**

**The above model is the best 5-variable model found.**

**Maximum R-Square Improvement: Step 7**

**Variable pg Entered: R-Square = 0.6476 and C(p) = 5.4514**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 6 | 9.43452 | 1.57242 | 13.17 | <.0001 |
| Error | 43 | 5.13282 | 0.11937 | | |
| Corrected Total | 49 | 14.56734 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 4.06284 | 0.18825 | 55.60038 | 465.79 | <.0001 |
| pg | -0.12403 | 0.11524 | 0.13827 | 1.16 | 0.2878 |
| nswitch | -0.19314 | 0.04623 | 2.08341 | 17.45 | 0.0001 |
| nremedial | 0.04384 | 0.02338 | 0.41984 | 3.52 | 0.0675 |
| nsems | -0.10566 | 0.03258 | 1.25563 | 10.52 | 0.0023 |
| voc | -0.35166 | 0.20381 | 0.35537 | 2.98 | 0.0916 |
| it | 0.76987 | 0.23460 | 1.28553 | 10.77 | 0.0021 |

**Bounds on condition number: 3.4026, 76.992**

**The above model is the best 6-variable model found.**

**Maximum R-Square Improvement: Step 8**

**Variable hsgpa Entered: R-Square = 0.6617 and C(p) = 5.7933**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 7 | 9.63985 | 1.37712 | 11.74 | <.0001 |
| Error | 42 | 4.92749 | 0.11732 | | |
| Corrected Total | 49 | 14.56734 | | | |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**

**Maximum R-Square Improvement: Step 8**

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.06092 | 0.77719 | 4.97486 | 42.40 | <.0001 |
| pg | -0.16224 | 0.11784 | 0.22239 | 1.90 | 0.1759 |
| hsgpa | -0.24586 | 0.18585 | 0.20533 | 1.75 | 0.1930 |
| nswitch | -0.18251 | 0.04653 | 1.80497 | 15.38 | 0.0003 |
| nremedial | 0.04741 | 0.02333 | 0.48442 | 4.13 | 0.0485 |
| nsems | -0.11509 | 0.03307 | 1.42055 | 12.11 | 0.0012 |
| voc | -0.40116 | 0.20549 | 0.44711 | 3.81 | 0.0576 |
| it | 0.84371 | 0.23918 | 1.45988 | 12.44 | 0.0010 |

**Bounds on condition number: 3.5986, 101.65**

**The above model is the best 7-variable model found.**

**Maximum R-Square Improvement: Step 9**

**Variable uninterested Entered: R-Square = 0.6660 and C(p) = 7.2893**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 8 | 9.70226 | 1.21278 | 10.22 | <.0001 |
| Error | 41 | 4.86508 | 0.11866 | | |
| Corrected Total | 49 | 14.56734 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.11479 | 0.78513 | 5.03585 | 42.44 | <.0001 |
| pg | -0.14970 | 0.11977 | 0.18539 | 1.56 | 0.2184 |
| hsgpa | -0.23973 | 0.18709 | 0.19481 | 1.64 | 0.2073 |
| nswitch | -0.17961 | 0.04697 | 1.73523 | 14.62 | 0.0004 |
| nremedial | 0.04962 | 0.02366 | 0.52178 | 4.40 | 0.0422 |
| nsems | -0.11613 | 0.03329 | 1.44362 | 12.17 | 0.0012 |
| uninterested | -0.10003 | 0.13793 | 0.06241 | 0.53 | 0.4724 |
| voc | -0.44010 | 0.21352 | 0.50410 | 4.25 | 0.0457 |
| it | 0.84835 | 0.24063 | 1.47494 | 12.43 | 0.0011 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**

**Maximum R-Square Improvement: Step 9**

**Bounds on condition number: 3.6963, 129.67**

**The above model is the best 8-variable model found.**

**Maximum R-Square Improvement: Step 10**

**Variable mil Entered: R-Square = 0.6674 and C(p) = 9.1297**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 9 | 9.72202 | 1.08022 | 8.92 | <.0001 |
| Error | 40 | 4.84532 | 0.12113 | | |
| Corrected Total | 49 | 14.56734 | | | |

| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.11137 | 0.79332 | 5.02854 | 41.51 | <.0001 |
| pg | -0.13800 | 0.12443 | 0.14900 | 1.23 | 0.2740 |
| hsgpa | -0.23620 | 0.18923 | 0.18873 | 1.56 | 0.2192 |
| nswitch | -0.18062 | 0.04752 | 1.74995 | 14.45 | 0.0005 |
| nremedial | 0.04687 | 0.02486 | 0.43059 | 3.55 | 0.0667 |
| nsems | -0.11449 | 0.03388 | 1.38294 | 11.42 | 0.0016 |
| uninterested | -0.11529 | 0.14439 | 0.07723 | 0.64 | 0.4293 |
| mil | -0.07897 | 0.19551 | 0.01976 | 0.16 | 0.6884 |
| voc | -0.39882 | 0.23872 | 0.33810 | 2.79 | 0.1026 |
| it | 0.86559 | 0.24684 | 1.48959 | 12.30 | 0.0011 |

**Bounds on condition number: 4.5257, 183.41**

**The above model is the best 9-variable model found.**

**Maximum R-Square Improvement: Step 11**

**Variable unsure Entered: R-Square = 0.6685 and C(p) = 11.0000**

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 10 | 9.73808 | 0.97381 | 7.86 | <.0001 |
| Error | 39 | 4.82926 | 0.12383 | | |
| Corrected Total | 49 | 14.56734 | | | |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**

**Maximum R-Square Improvement: Step 11**

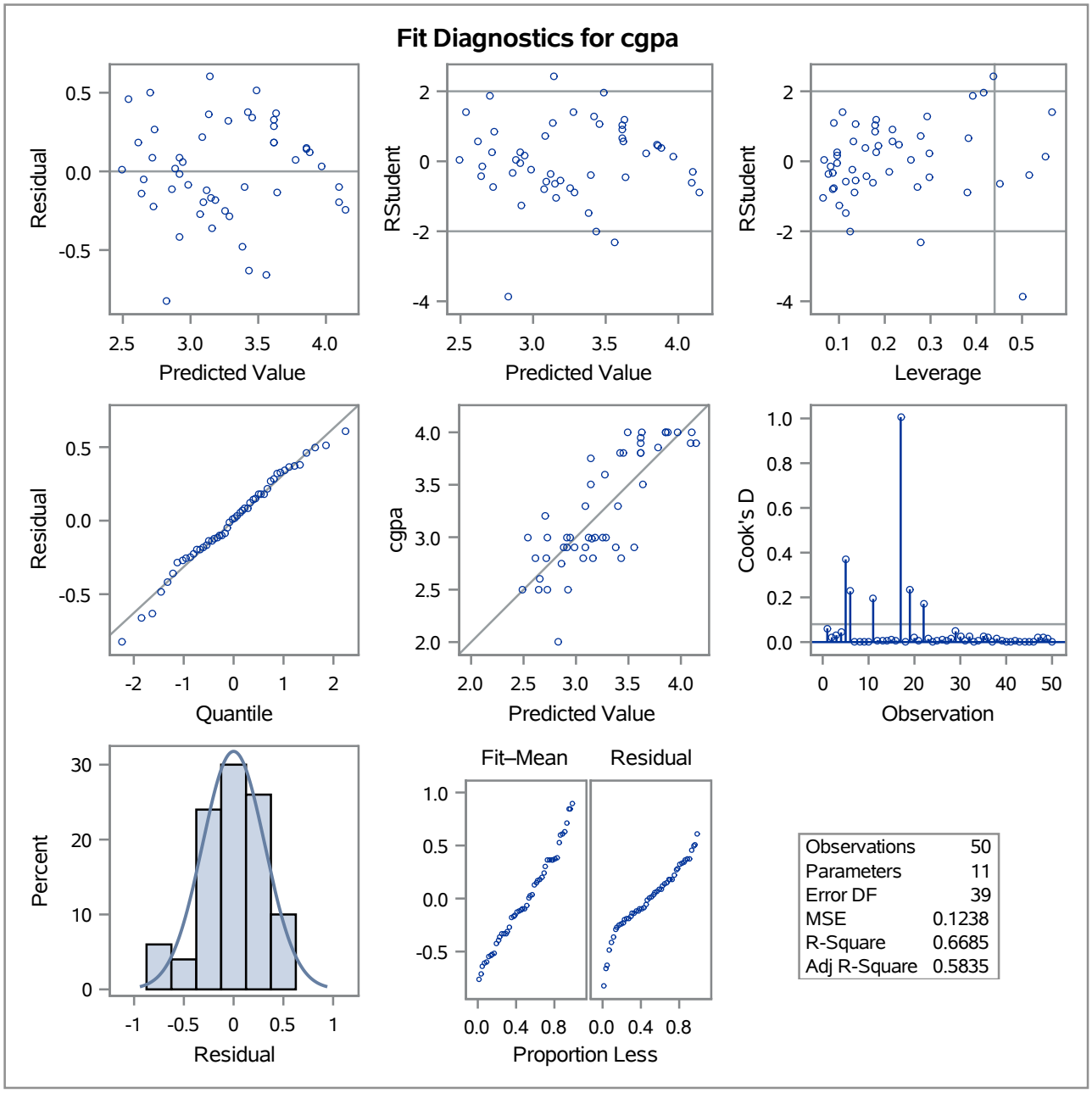
| Variable | Parameter Estimate | Standard Error | Type II SS | F Value | Pr > F |
|---|---|---|---|---|---|
| Intercept | 5.04698 | 0.82178 | 4.67056 | 37.72 | <.0001 |
| pg | -0.14037 | 0.12598 | 0.15374 | 1.24 | 0.2720 |
| hsgpa | -0.22379 | 0.19441 | 0.16409 | 1.33 | 0.2567 |
| nswitch | -0.17788 | 0.04864 | 1.65578 | 13.37 | 0.0008 |
| nremedial | 0.04815 | 0.02539 | 0.44553 | 3.60 | 0.0653 |
| nsems | -0.10755 | 0.03930 | 0.92764 | 7.49 | 0.0093 |
| unsure | -0.06620 | 0.18384 | 0.01606 | 0.13 | 0.7207 |
| uninterested | -0.09280 | 0.15878 | 0.04230 | 0.34 | 0.5623 |
| mil | -0.10483 | 0.21032 | 0.03077 | 0.25 | 0.6210 |
| voc | -0.39131 | 0.24226 | 0.32307 | 2.61 | 0.1143 |
| it | 0.86980 | 0.24984 | 1.50082 | 12.12 | 0.0012 |

**Bounds on condition number: 4.5595, 244.6**

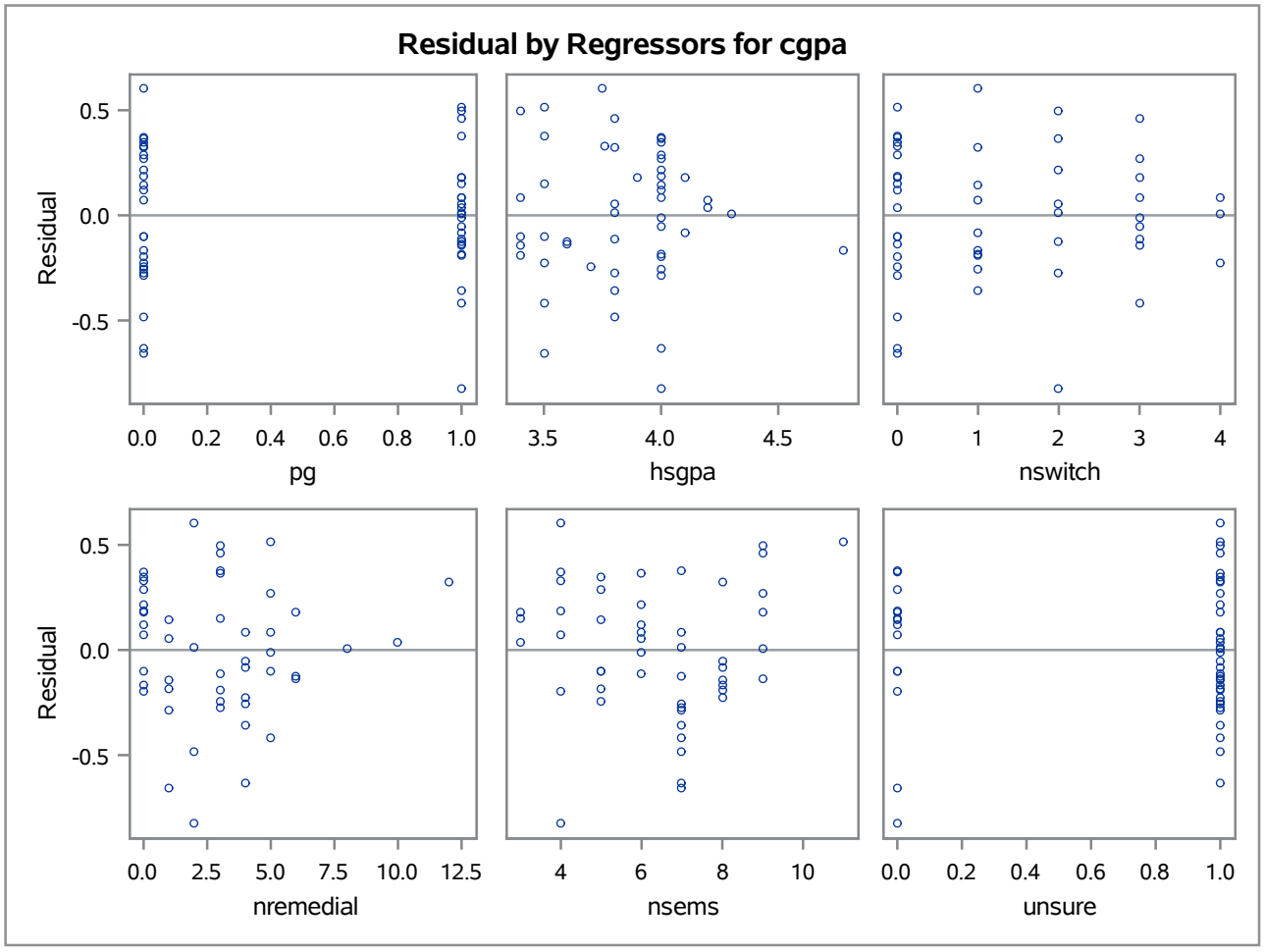
**The above model is the best 10-variable model found.**

**No further improvement in R-Square is possible.**

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**



**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: cgpa**