

**Table 10.7c** Partial Spreadsheet for Ordinal Regression Calculations—Low Achievement Only

| $zSES = -2$ | <i>Threshold</i> | $zSES$   | $zACH$ | $SES^*ACH$ | $SES^2$ | $ACH^2$ | $SES^3*ACH$ | $SES^2*ACH^2$ | $SES^3*ACH^2$ | <i>Predicted Logit</i> | <i>Cumulative Probability</i> | <i>Conditional Probability</i> |
|-------------|------------------|----------|--------|------------|---------|---------|-------------|---------------|---------------|------------------------|-------------------------------|--------------------------------|
| Group       |                  |          |        |            |         |         |             |               |               |                        |                               |                                |
| $p \leq 0$  | 1.267            | -2       | -2     | 4          | 4       | 4       | -8          | 16            | -8            | 3.819                  | 0.978                         | 0.978                          |
| $p \leq 1$  | 2.012            | -2       | -2     | 4          | 4       | 4       | -8          | 16            | -8            | 4.564                  | 0.989                         | 0.011                          |
| $p \leq 2$  | 3.042            | -2       | -2     | 4          | 4       | 4       | -8          | 16            | -8            | 5.594                  | 0.996                         | 0.007                          |
| $p \leq 3$  |                  | $\leq 2$ | -2     | 4          | 4       | 4       | -8          | 16            | -8            |                        | 1                             | 0.004                          |

| $zSES = -1.5$ | <i>Threshold</i> | $zSES$ | $zACH$ | $SES^*ACH$ | $SES^2$ | $ACH^2$ | $SES^3*ACH$ | $SES^3*ACH^2$ | $SES^3*ACH^2$ | <i>Predicted Logit</i> | <i>Cumulative Probability</i> | <i>Conditional Probability</i> |
|---------------|------------------|--------|--------|------------|---------|---------|-------------|---------------|---------------|------------------------|-------------------------------|--------------------------------|
| Group         |                  |        |        |            |         |         |             |               |               |                        |                               |                                |
| $p \leq 0$    | 1.267            | -1.5   | -2     | 3          | 2.25    | 4       | -4.5        | 9             | -6            | 2.492                  | 0.923                         | 0.923                          |
| $p \leq 1$    | 2.012            | -1.5   | -2     | 3          | 2.25    | 4       | -4.5        | 9             | -6            | 3.237                  | 0.962                         | 0.0386                         |
| $p \leq 2$    | 3.042            | -1.5   | -2     | 3          | 2.25    | 4       | -4.5        | 9             | -6            | 4.267                  | 0.986                         | 0.0239                         |
| $p \leq 3$    |                  | -1.5   | -2     | 3          | 2.25    | 4       | -4.5        | 9             | -6            |                        | 1                             | 0.0138                         |