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 Calculation form for cost-benefit analysis of European corn borer management in whorl-stage corn.  
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|    |       |                       |   |       |  |   |          |                        |
|----|-------|-----------------------|---|-------|--|---|----------|------------------------|
| 1. | _____ | larvae found          | X | _____ | expected survivorship <sup>a, **</sup> | = | _____    | surviving larvae       |
| 2. | _____ | surviving larvae      | / | _____ | plants examined                        | = | _____    | larvae per plant       |
| 3. | _____ | larvae per plant      | X | _____ | yield loss per larva <sup>*, ***</sup> | = | _____    | yield loss             |
| 4. | _____ | yield loss            | X | _____ | expected yield (bushels per acre)      | = | _____    | bushels loss per acre  |
| 5. | _____ | bushels loss per acre | X | _____ | price per bushel                       | = | \$ _____ | loss per acre          |
| 6. | _____ | loss per acre         | X | _____ | percent control <sup>*</sup>           | = | \$ _____ | preventable loss/acre  |
| 7. | _____ | preventable loss/acre | - | _____ | cost of control per acre               | = | \$ _____ | profit (loss) per acre |

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<sup>a</sup>All percents must be written using decimals (i.e., 50 percent = 0.5).  
<sup>\*\*</sup>Expected survivorship usually is 0.2 to 0.5 (20 to 50 percent), depending on the instars and degree of environmental stress on the larvae before they bore into the plant.  
<sup>\*\*\*</sup>Use 0.059 for 10-leaf corn, or 0.05 for 16-leaf, whorl-stage corn.

Source: <http://www.ent.iastate.edu/pest/cornborer/node/166>