



Figure 4.

HONEY BEE MORTALITY PREDICTOR

Instructions for Figure 4

- A. Look up the LD₅₀ in Table 2 for the pesticide you are going to use. Find this value, or the value closest to it in Section 1 below.
- B. Read to the right on the same line into Section 2 and find the dosage, or the closest dosage to the one you intend to actually use in the field.
- C. From the actual dosage (Section 2), read down the column into Section 3. This figure represents how much more or less than the LD₅₀ your actual dosage is. Find this figure on vertical line of left side of the Predictor (Figure 4).
- D. Look up the Slope Value in Table 2 for the pesticide you are going to use, and locate it on the Slope Value line on Figure 4.
- E. Use a ruler or other straightedge to connect the point on the Dosage Factor line to the point on the Slope Value line in Figure 4. Extend the straightedge to intersect the vertical line on the right in the Predictor. At the point of intersection, you can read the predicted percent mortality of honey bees in the field for the type and dosage of pesticide you intend to use.

NOTE: By rotating your straightedge and working backwards, you can determine how much to lower the dosage to avoid serious bee kill.

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