



| Importance of Slope |  |  |
| :---: | :---: | :---: |
| Variation in response of two different species reacting to the same chemical <br> \& Variation in response of single species reacting to two different chemicals |  |  |

Monitoring of Resistance Development
Numbers
Responding
\% Response


Estimating the Time to Death (or other
Response): LT50
Sometimes we want to know how long it
takes or an organism to respond

- For example, this might be an advantage in pest
control

| samples) and hold larvae on them for |
| :--- |
| specified periods of time |
| - If conduct experiment in the lab, you can still use |
| matrices with different concentrations; just vary |
| the time to observation of response at enough |
| intervals to be able to validly estimate a time- |
| response function |



## Use of Dose-Response Data for Interpreting Environmental Chemistry Data

Recovery of Assail residues and significance relative to doseresponse function for neonate codling moths on leaves



