Geographic-based Research and Applications at the National Cancer Institute

Example: epidemiologic study of non-Hodgkin's lymphoma (NHL)

residences to specific crop

Absolute Rates

Most significant outlier is MT county where

a copper smelter had polluted air with arsenic

Lower limit of 95% interval

Value >1 implies significance

can be determined for residences

· Manned residences, then assessed proximity of

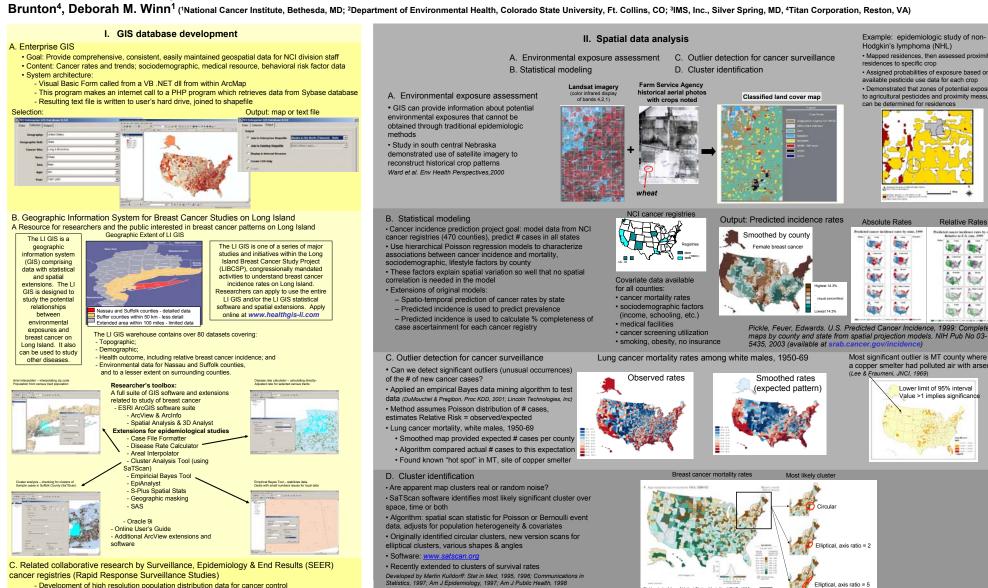
· Demonstrated that zones of potential exposure

to agricultural pesticides and proximity measures.

Relative Rates

· Assigned probabilities of exposure based on available pesticide use data for each crop

Linda Williams Pickle¹, Mary H. Ward¹, Dan J. Grauman¹, Daniel B. Carr¹, John R. Nuckols², Michael J. Barrett³, James E. Cucinelli³, Scott M. Sherman³, H. Scott



- Assessment of the accuracy of geocoding by geographic scale, impact of errors on cancer rates