Stat 505 - Environmental Statistics - References for part 4
Regulatory connections

Equivalence tests: Books / Book Chapters


Compilation of many different approaches and applications. Both theory and application.

Equivalence tests: General Papers


Argues that proof of safety requires much larger sample sizes.


One reaction to Bross, casting the problem in terms of power.


The standard reference for the two one-sided tests procedure.

Equivalence tests: Environmental applications


**Equivalence tests: More powerful tests than TOST**


The discussions are as interesting as the main paper. Meredith or Hauck/Anderson’s for how statistics and practice interact.


**Standards: books**


A report to the Royal Commission on Environmental Pollution. More policy as technical details, in spite of the authors (both statisticians) and title. Official Gov’t response also in Parks Library, ‘Government Response to the Royal Commission on Environmental Pollution’s Twenty-First Report, Setting Environmental Standards’.


Basic problem is ‘is the groundwater at this well site contaminated?’ Details on r out of m prediction calculations, applied to sampling and decision rules for groundwater.


Introduction to confidence, prediction, and tolerance intervals. Includes extensive tables.

Gilbert, R. *Statistical Methods for Environmental Pollution Monitoring*, also has a chapter on tolerance intervals.

Tolerance intervals: environmental applications
