

Department of Civil Engineering  
2011 Summer Semester  
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## Environmental Statistics

### Outline #07 ANOVA (21 May 2011)

1. Population or sample?
  2. F distribution
  3. Analysis of variance
    - Null hypothesis
    - Type I error
    - ANOVA table
    - R for ANOVA
    - One-way ANOVA
    - Factorial ANOVA
    - Repeated-measures ANOVA
  4. Post-hoc test
    - multiple comparison procedure
    - Tukey HSD test, Fisher LSD test, etc
  5. Exercise and Report
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