

Rep 1

Rep 2

Rep 3

Rep 4

1 3 2

8 5 2

3 8 4

2 4 9

6 4 5

1 7 4

7 6 2

8 6 1

7 8 9

6 9 3

5 9 1

7 5 3

Example IV: Weed Biomass in Wetlands (Oehlert, 2000, Ex. 16.7)



- Experiment studies the effect of
 - **nitrogen** (4 levels of nitrogen)
 - **weed** (3 levels)
 - **clipping treatments** (2 levels: clipping / no clipping)on **plant growth** in wetlands.
- Experiment was performed as follows:
 - **8 trays**, whereof each holds three artificial wetlands (rectangular wire baskets)
 - 4 of the trays were placed on **a table near the door** of the greenhouse
 - 4 of the trays on **a table in the center** of the greenhouse
 - On **each table**, we randomly assign one of the trays to each of the **4 nitrogen treatments**.
 - Within **each tray**, we randomly assign the **3 weed treatments**.
 - In addition, each wetland is split in half. One half is chosen at random and will be clipped, the other half is not clipped.
 - After 8 weeks: measure fraction of biomass that is nonweed.