Theoretical Randomizations



☐ Under the null hypothesis

- □ 1 arrangement would have assigned treatment to the 4 most fertile strips (per pair) (1/16)
- □ 4 arrangements would have assigned treatment to 3 of the most fertile strips (per pair) (3/16)
- ☐ 6 arrangements would have assigned treatment to 2 of the most fertile strips (per pair) (6/16)
- □ 4 arrangements would have assigned treatment to 1 of the most fertile strips (per pair) (3/16)
- ☐ 1 arrangement would have assigned treatment to none most fertile strips (per pair) (1/16)

Theoretical Randomizations



☐ Under the null hypothesis

- ☐ The most extreme result (treated yield higher on 4 of 4 pairs, or untreated yield higher on 4 of 4 pairs) could have happed in 2 out of 16 = 0.125 arrangements.
- ☐ The next most extreme result (treated yield higher on 3 of 4 pairs, or untreated yield higher on 3 of 4 pairs) could have happed in 8 out of 16 arrangements; only 6 of 16 would have been less extreme (p = 1-6/16 = 0.625)