Penn State Rainout shelter Information:

Number of shelters Dimensions of shelters Dimensions of practical research area within the drought plots

Bob Snyder 1/3/2018



Rainout shelter (large shelter) covering drought plot with maize

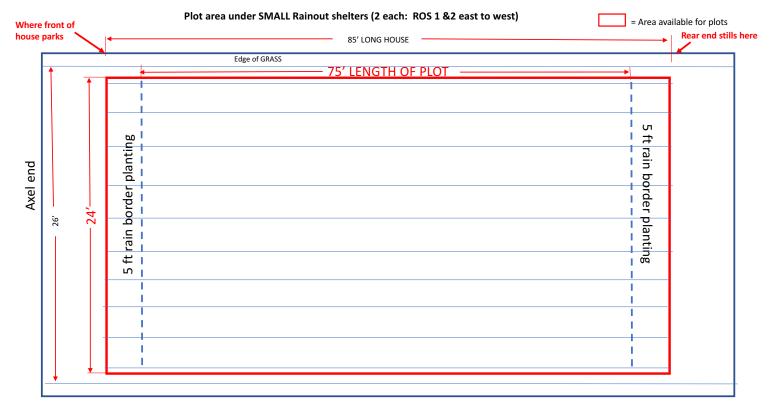
Note: the "small" shelters and the "Long" shelter do not have the extra 7ft of height, as they do not have side wall extensions.



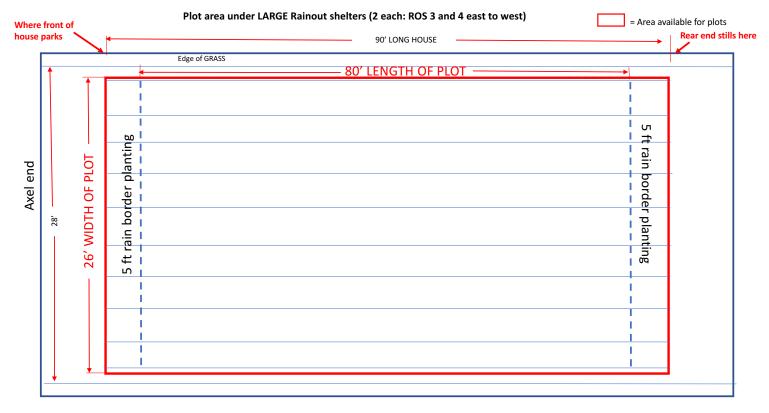
Rainout shelter facts for drought experiments.

- 1) Note that there are Orange marks painted on the rails (inside edge) at front and back show where the house ends will be when parked over the plot.
- 2) The dashed blue line shows were the experimental plot layout should start.
- 3) Numbers of 30-inch row centeres, in reality, depend on where the tractor driver starts his first set of 2-row scores.
- 4) Always leave a 5 ft (3 ft is minimum) rain buffer between the ends of the shelter and your research plots (in case of rain blowing or running into the front or rear of the structure.
- 5) For maximum number of plots per row, eliminate end of plot buffer zones or limit them to no more than 1 ft in length.
- 6) Always allow for one border row of crop on either side of the research plot area.
- 7) Plant border corn from 1 ft away from your research plots to the axel and 3 ft beyond the rear of the house to prevent water movement into the research plots.
- 8) Control plots are planted as a mirror image of the drought plots.
- 9) Note: there will be grass seeded on the back half of each control plot in 2018. We will only use the front half of each control plot for research.

NOTE: The dimensions given here in the following schematics as of 1/3/18, need verification from actual measurements from the structures and plots. These numbers are fairly accurate from my own measurements in 2011, but I've noticed a few discrepancies while making this powerpoint product. RHS 1/3/2018



NOTE: 10- 30" centered rows, 86 ft long, scored by 2-row planter



NOTE: 10- 30" centered rows, 84 ft long, scored by 2-row planter



NOTE: 10- 30" centered rows, 140 ft long, scored by 2-row planter