# Penn State Rainout shelter Information: 

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

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Rainout shelter (large shelter) covering drought plot with maize


Note: the "small" shelters and the "Long" shelter do not have the extra 7 ft 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 l'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


