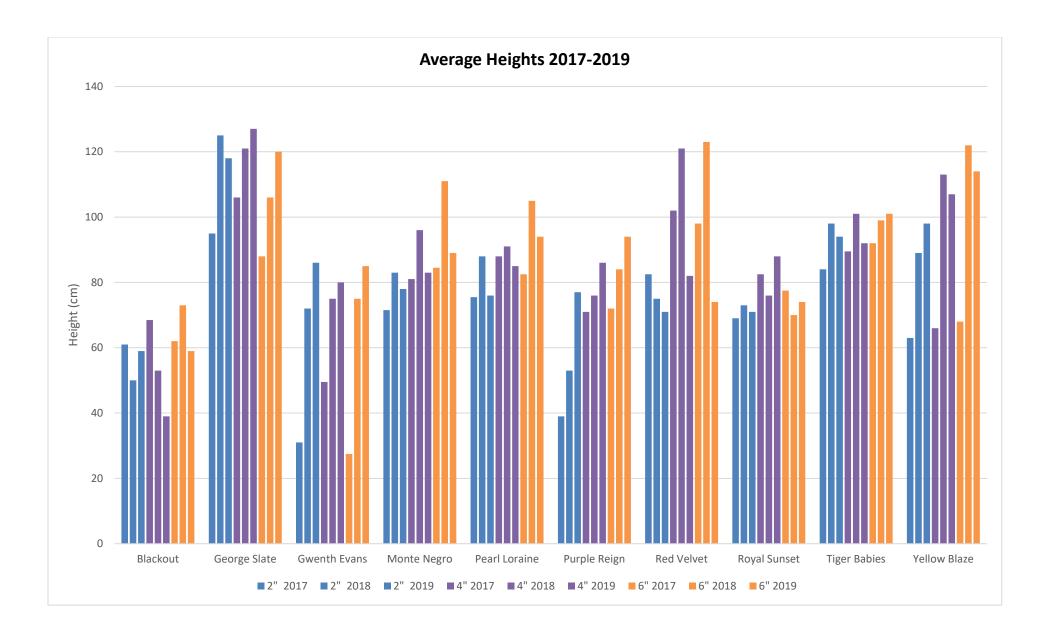
# OLDS COLLEGE LILY RESEARCH PLOTS DEPTH TRIAL RESULTS

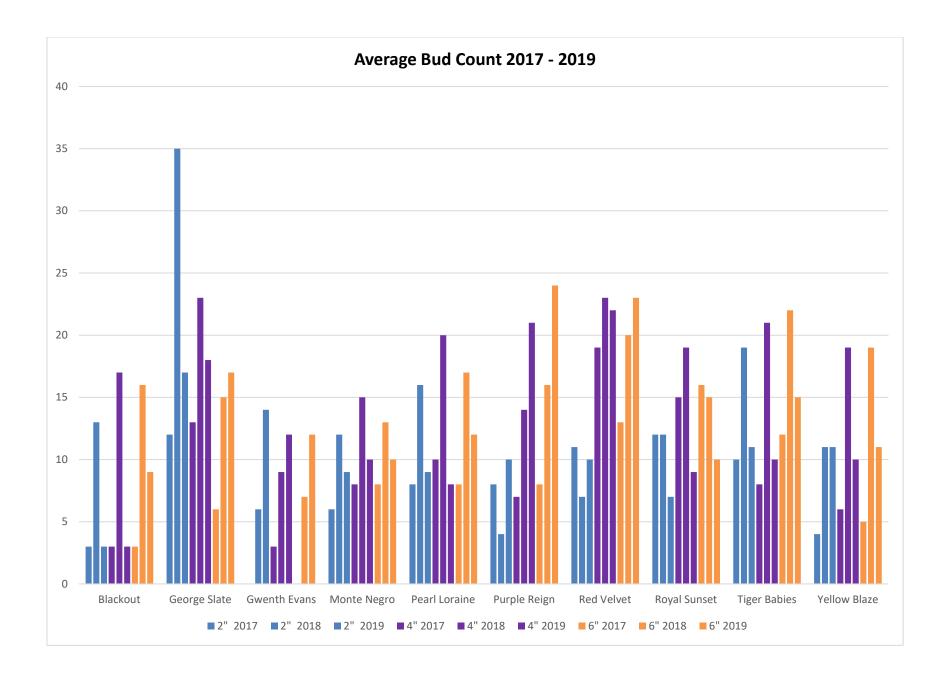
# **Depth Trial Experiment**

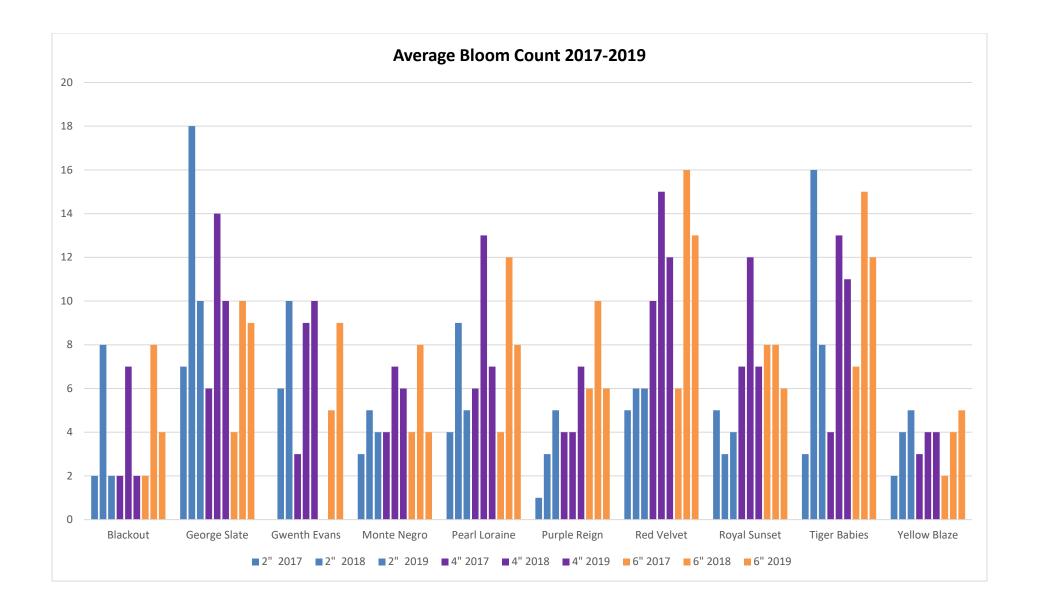
- 10 different Asiatic lily cultivars were chosen
- 9 bulbs of each were purchased
- 3 bulbs of each were planted at 2", 4" and 6" depths
- Planted in 2016, data was collected for 3 growing seasons
- All bulbs were dug from the field in October of 2019
- Final bulb depth at removal was measured and compared against planting depth
  - Variables erosion, maintenance work (ie. weeding), gophers
- Some bulbs were not present at removal, resulting in average/mean values that were based on a single specimen
  - At 2" planting depth 8 bulbs were missing
  - At 4" planting depth 4 bulbs were missing
  - At 6" planting depth 6 bulbs were missing
  - Gwyneth Evans 5 bulbs were missing, leading to questions of hardiness
- All measurements and counts are made on the tallest single stem of each plant.

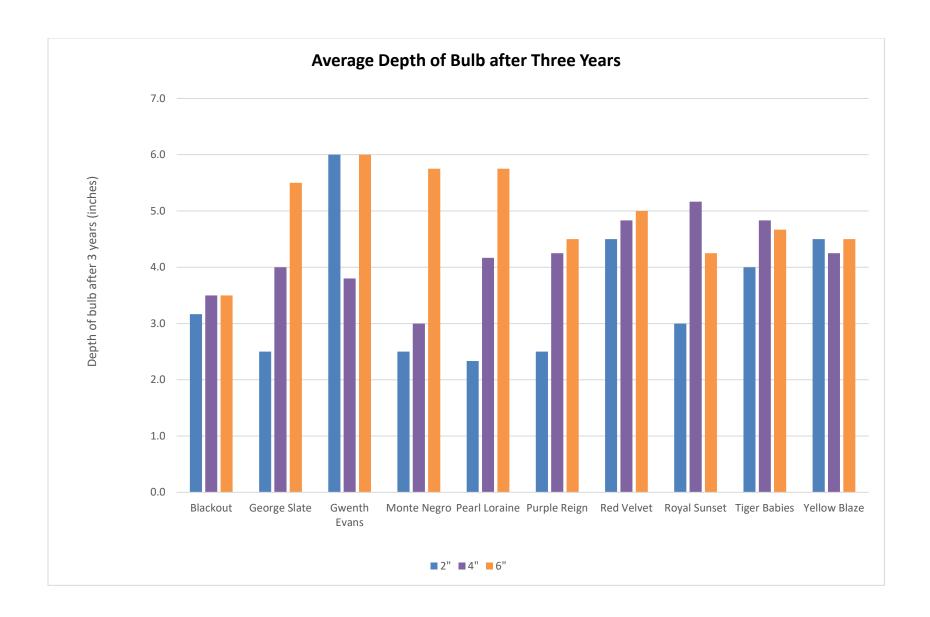
### **Graphs**

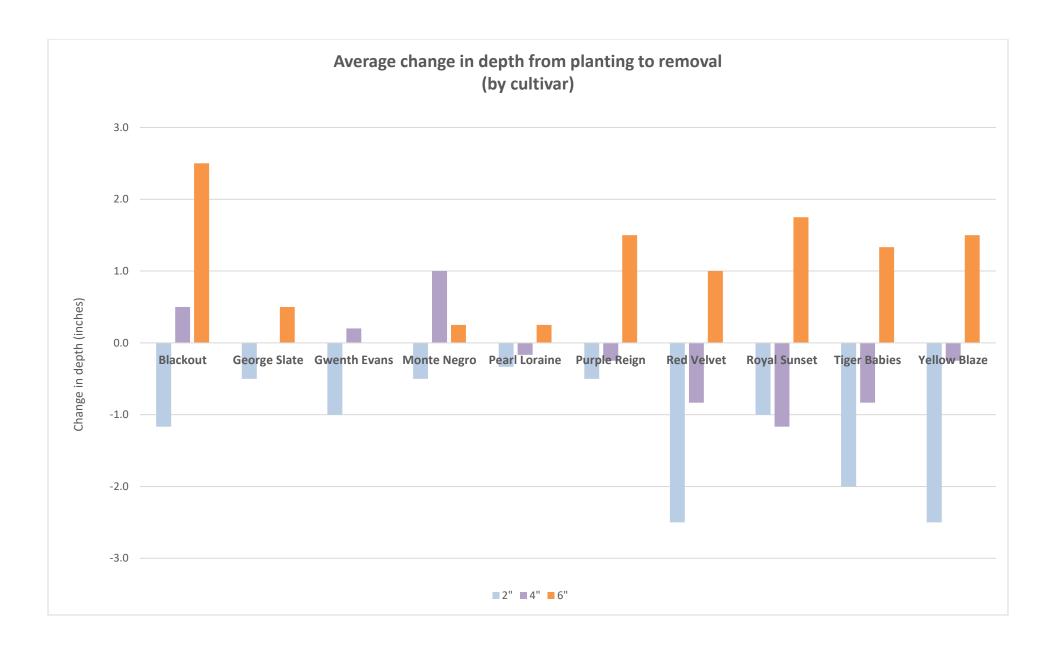
2017-2019 Average maximum heights year over year for each lily 2017-2019 Average bud count year over year for each lily 2017-2019 Average bloom count year over year for each lily

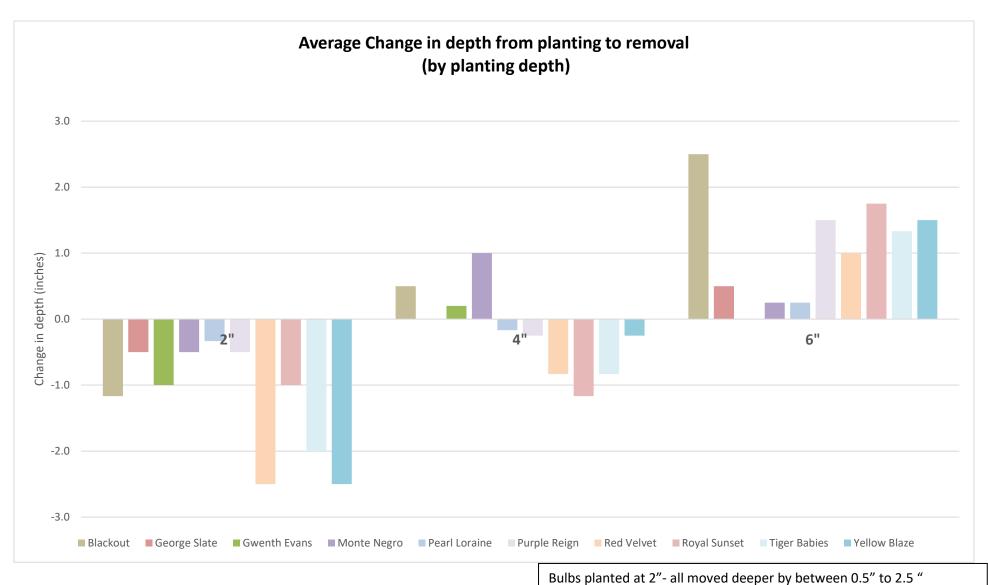












Bulbs planted at 4'' - 6 moved deeper by between 0.2" to 1.2"; 1 stayed at the same depth, and 3 moved shallower (0.2" to 1.0")

Bulbs planted at 6'' – all moved shallower from between 0.3" to 2.5"; 1 bulb stayed at the same depth

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## **Results and Conclusions**

- Planting depth of 2"
  - All cultivars bulbs were found deeper than planting depth
- Planting depth of 4"
  - 3 cultivars bulbs were found shallower
  - 1 cultivar bulbs were found a the same depth
  - 6 cultivars bulbs were found deeper
- Planting depth of 6"
- o 1 cultivar bulbs found at the same depth
- 9 cultivars bulbs found deeper

### Notes

- Experimental design
- Needed more than 3 replicants to allow for bulb loss
- •