

# OLDS COLLEGE LILY RESEARCH PLOTS

## RESULTS FOR 2019

### GRAPHS

- Data collected in the current growing season is reported for all the current lilies in the plots, regardless of how long they have been in place, or what purpose they are used for (ie. propagation for sales).
- Data for lilies that have been in the gardens for 3 seasons is displayed for the purposes of comparison – lily to lily, and season to season
- 2019 was felt to have been a very late in starting and the belief was that many plants were delayed in their blooming. For this reason we chose to compare bloom start dates from 2018 and 2019

#### **Current Plots Lilies**

2019 Average maximum heights for current lilies in plots

2019 Average bud counts for current lilies in plots

2018 Average bloom counts for current lilies in plots

#### **Lilies Planted in 2015 (four years of data)**

2016-2019 Average maximum height for lilies planted in 2015

2016-2019 Average bud count comparisons for lilies planted in 2015

2016-2019 Average bloom count comparisons for lilies planted in 2015

#### **Average Bloom Duration**

2019 Average bloom dates and duration for current lilies in plots

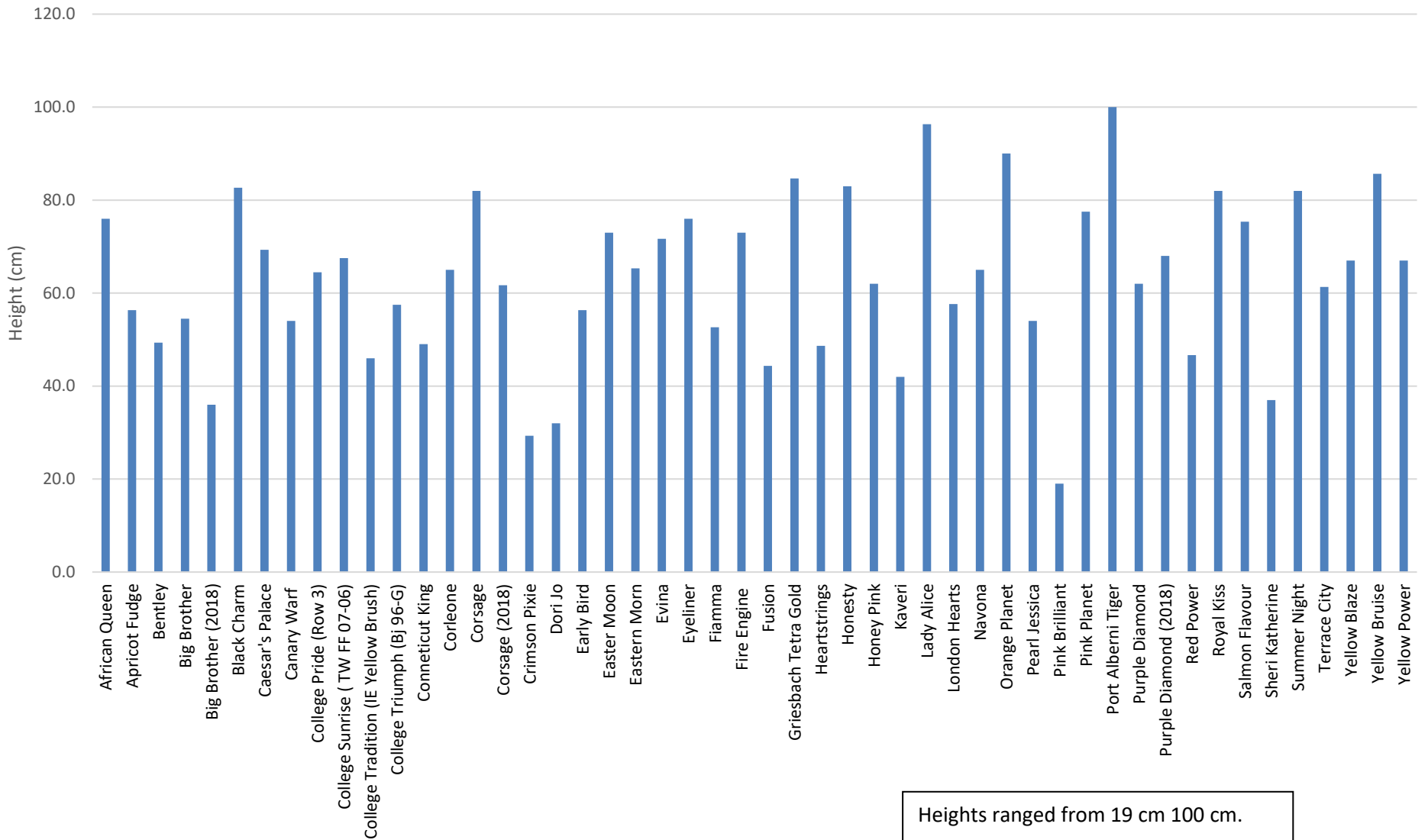
#### **Comparison Bloom Start Dates**

2018-2019 Average bloom start dates comparison

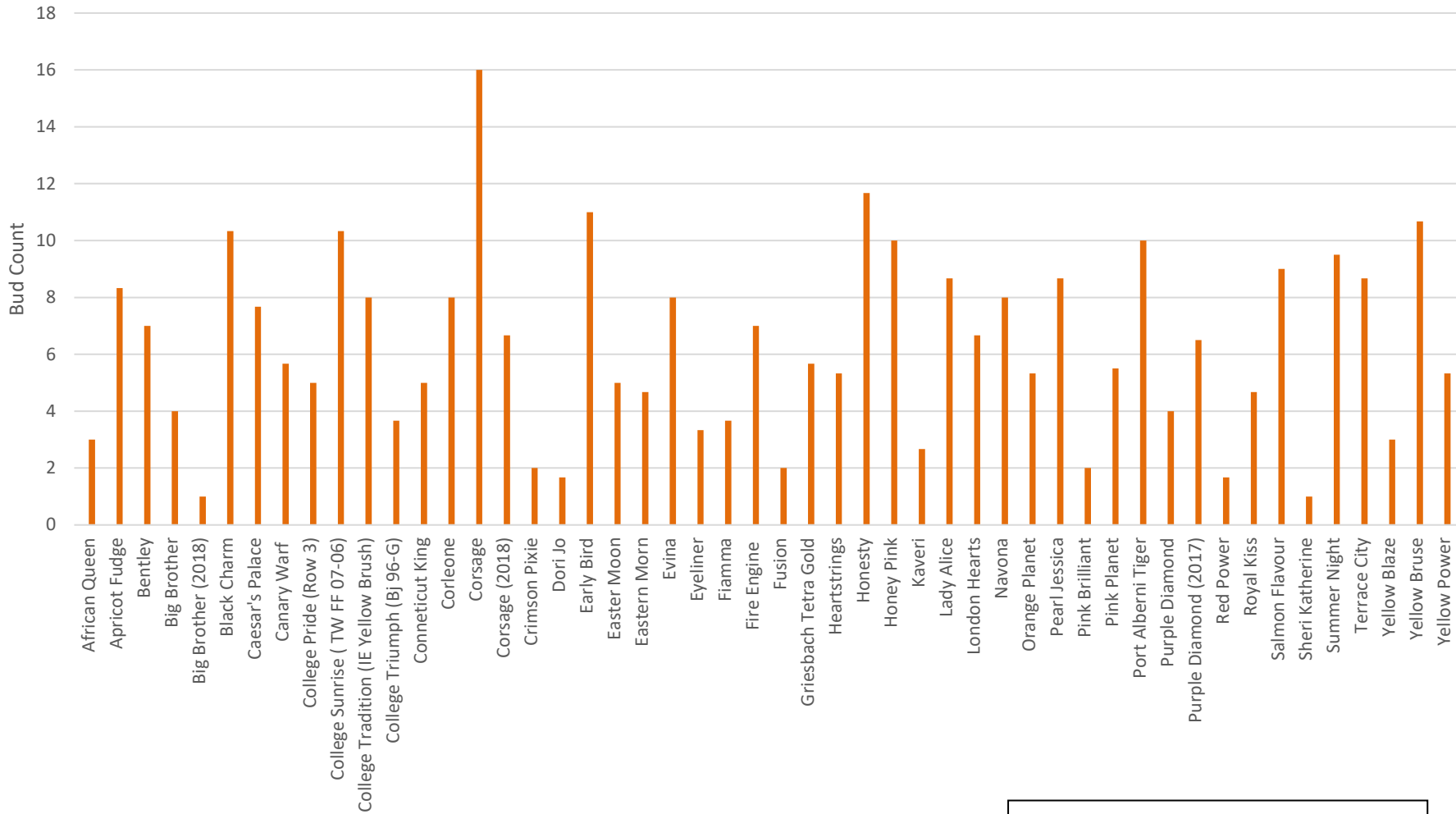
#### **Notes:**

- All measurements and counts are made on the tallest single stem of each plant and an average is taken

### Average Height of Current Plots Lilies 2019

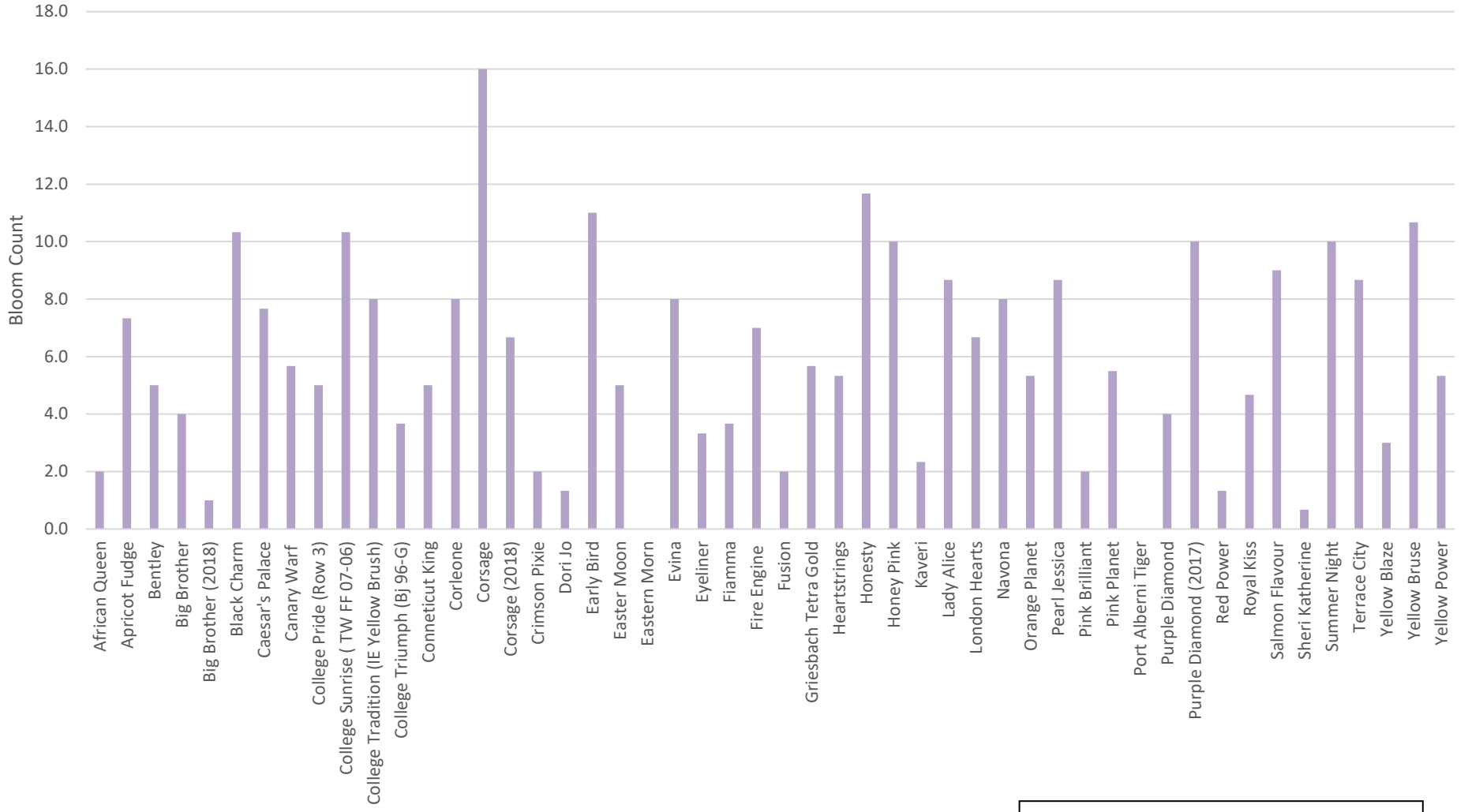


### Average Bud Count for Current Plots Lilies 2019



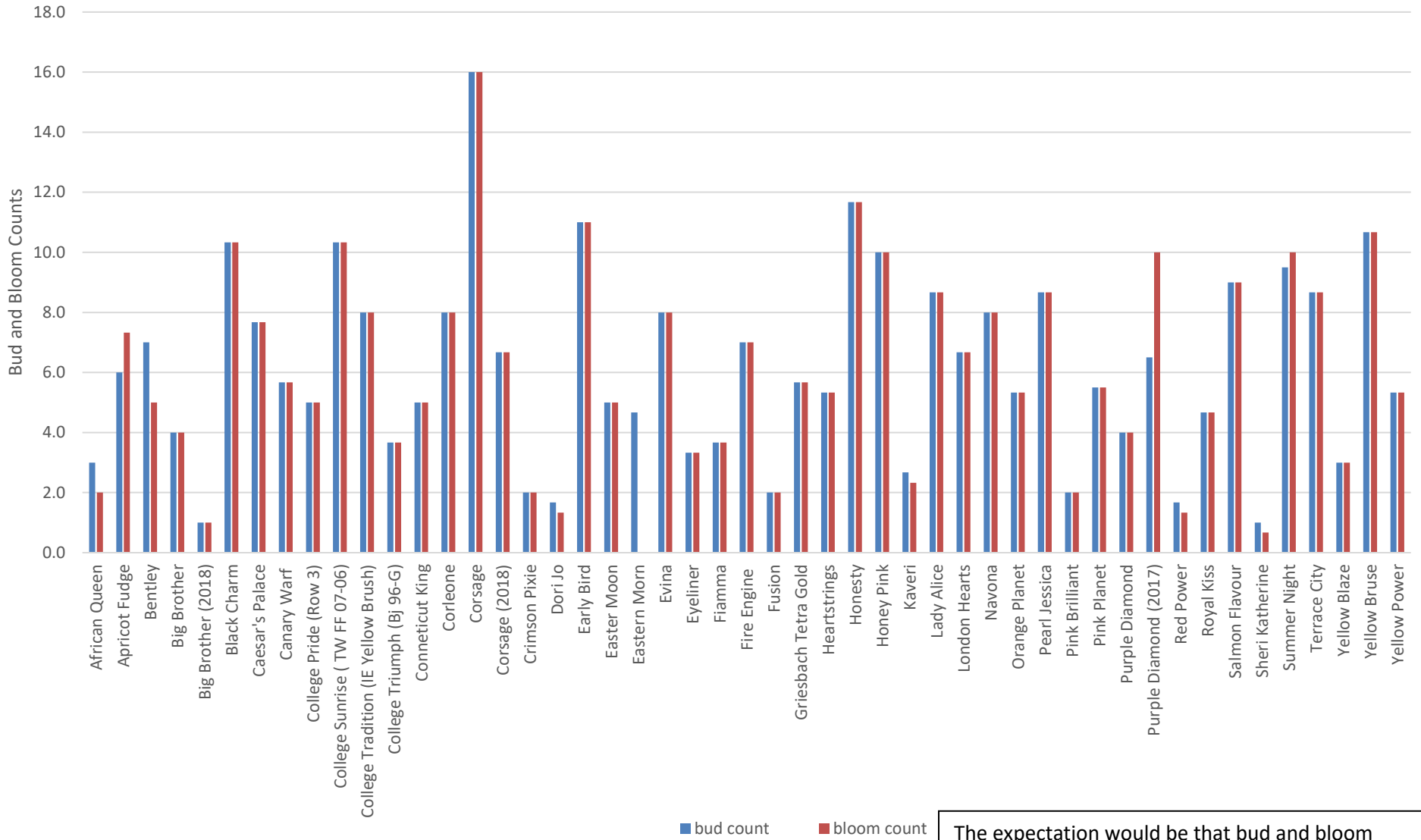
Bud counts ranged from 1 to 16.

### Average Bloom Count for Current Plots Lilies 2019



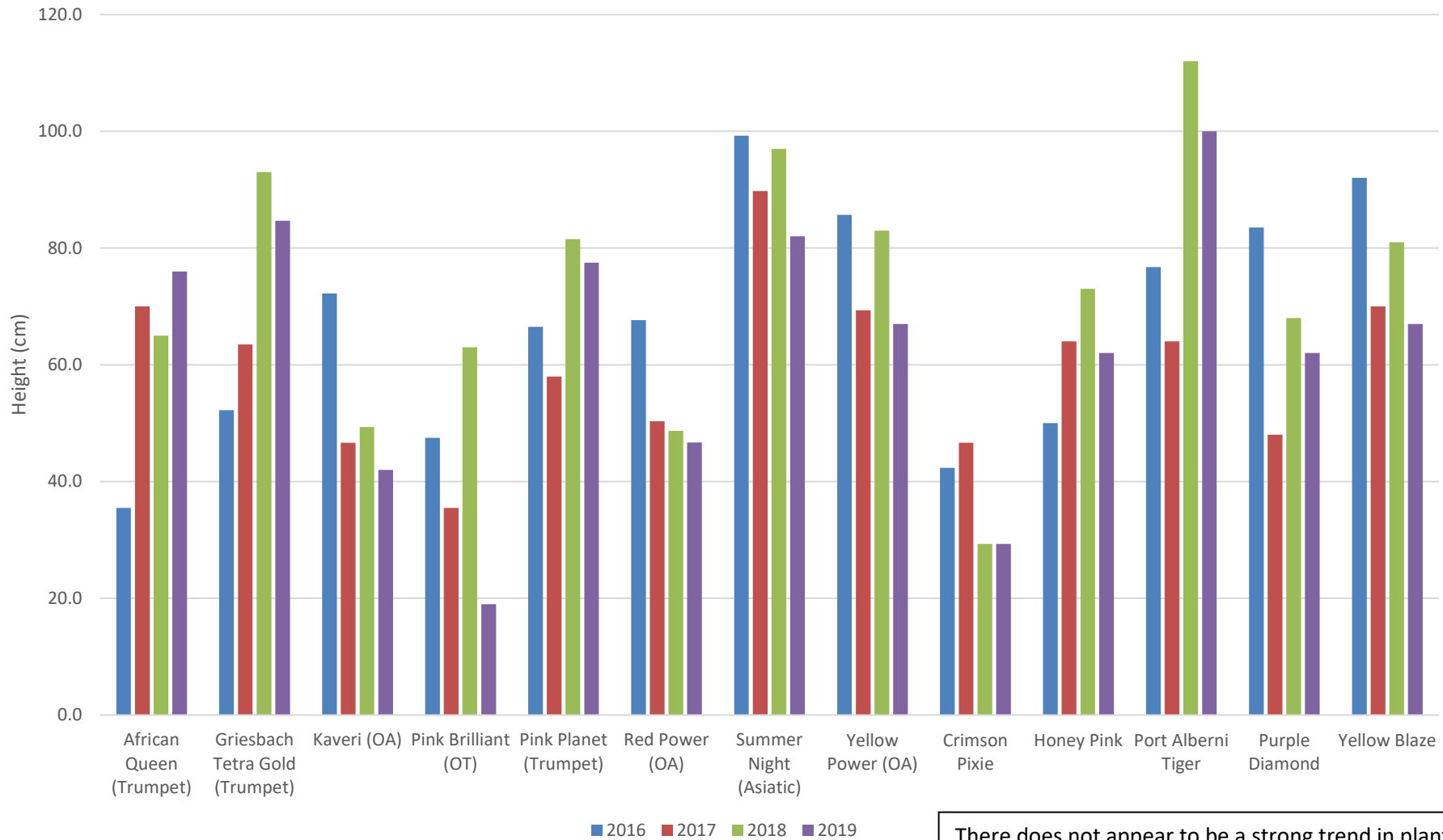
Bloom counts ranged from less than 1 to 16.

## Bud and Bloom Count Comparison Current Plots Lilies 2019



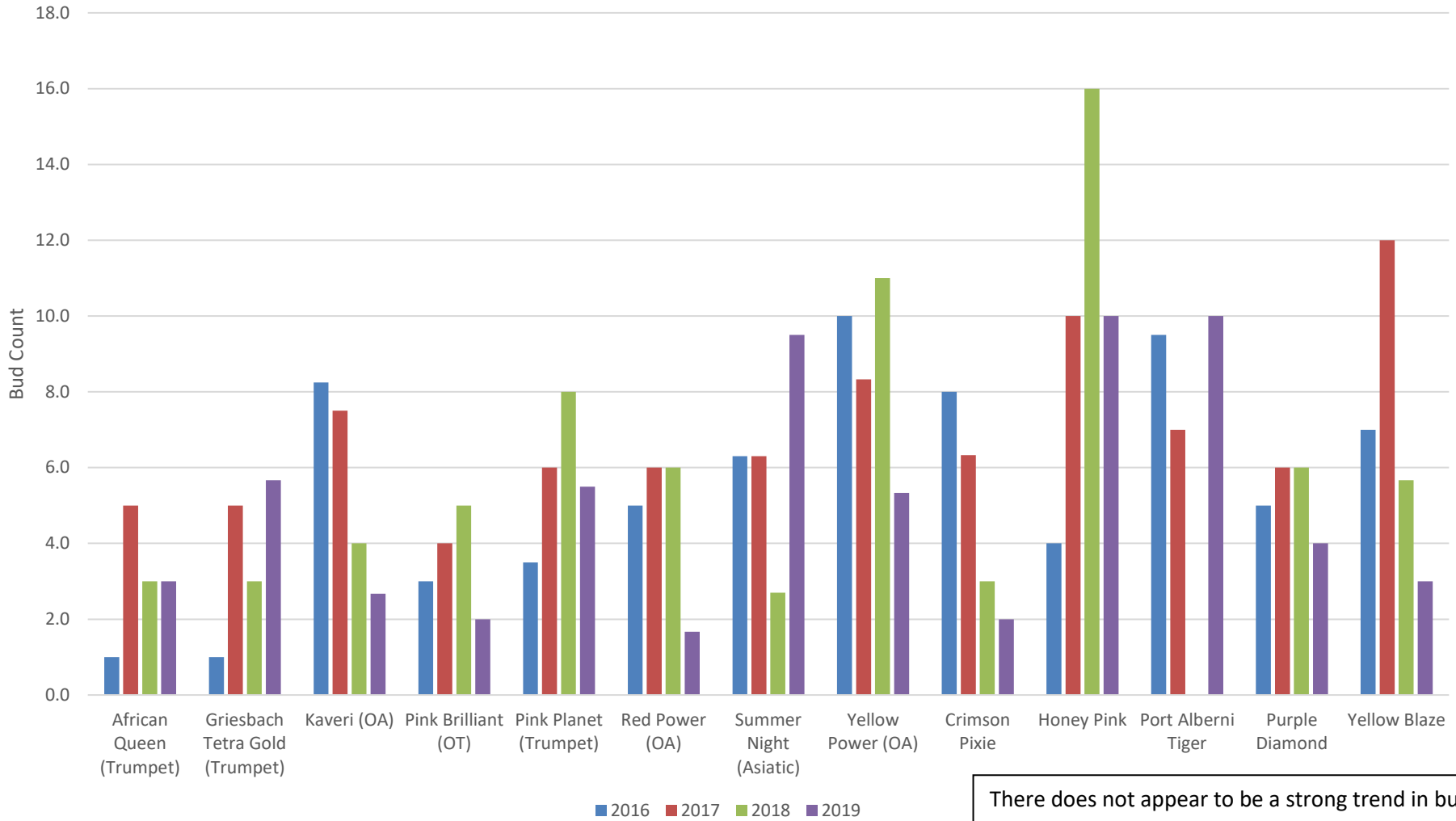
The expectation would be that bud and bloom counts are the same, or that there may be a few buds that abort (thus lower blooms than buds). For the most part this holds true, but in a few cases there are more blooms than buds. This could be due to staff error, or timing in taking the counts.

### Average Height of Lilies Planted 2015 (2016-2019)



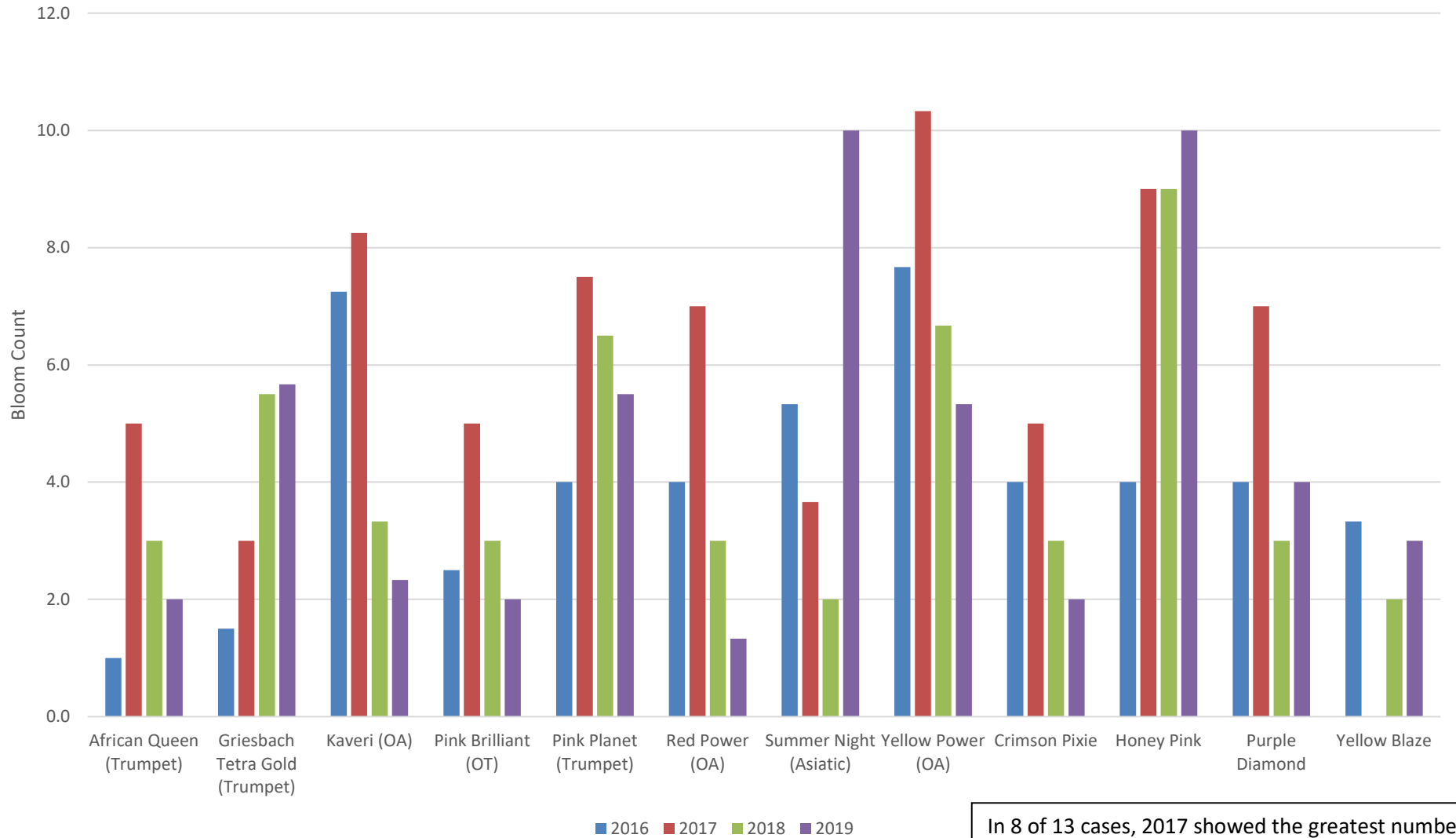
There does not appear to be a strong trend in plant height over the 4 years. In 6 of 13 cases, the first year plants grew the tallest. In only one case did the specimen reach maximum height in the final year. Variables may include seasonal weather, age of plant (ie. may need division) and bulb hardiness.

### Average Bud Count of Lilies Planted 2015 (2016-2019)



There does not appear to be a strong trend in bud count over the 4 years. In most cases (7 of 13), 2019 has the lowest number of buds.

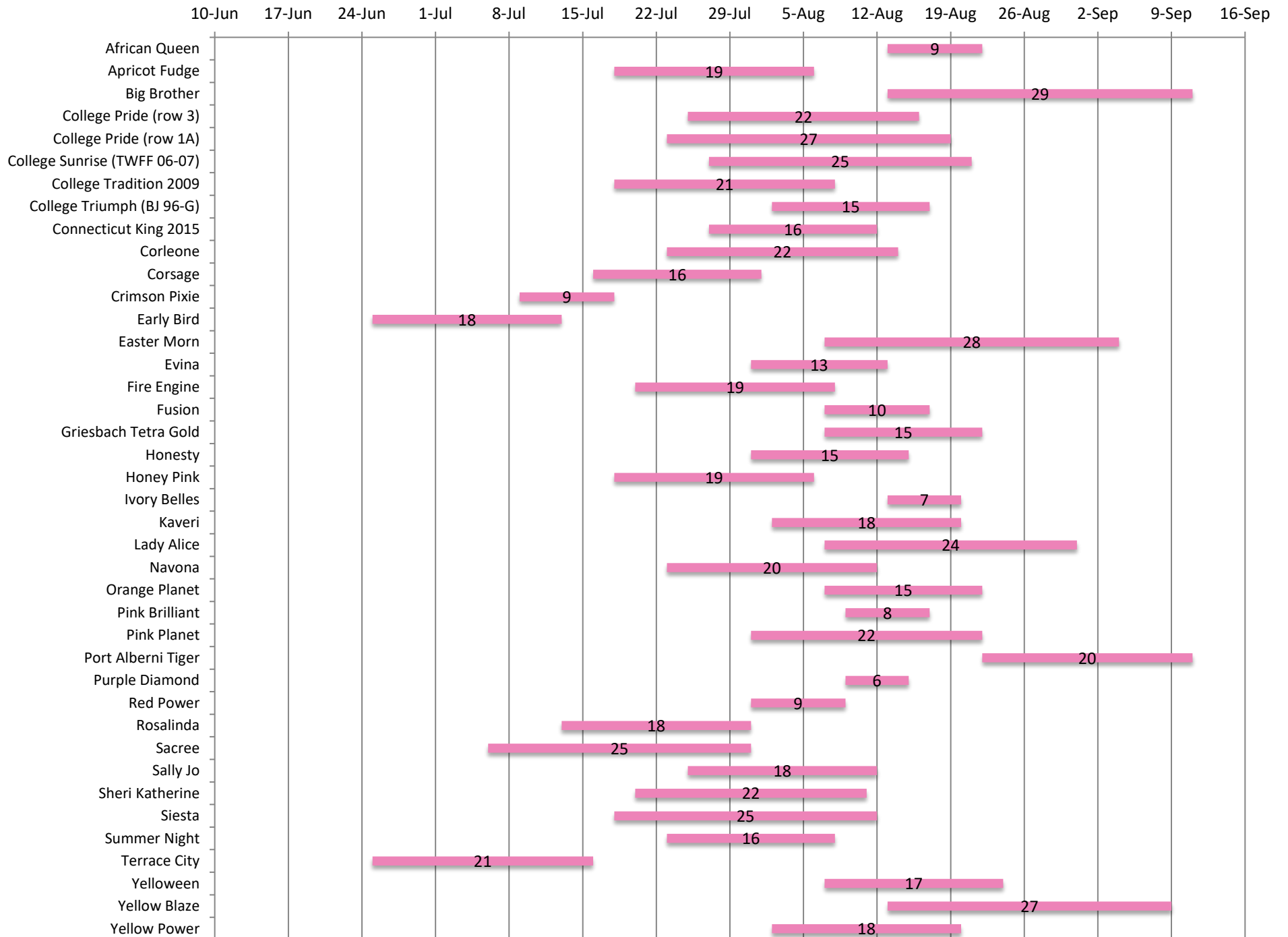
### Average Bloom Count of Lilies Planted 2015 (2016-2019)



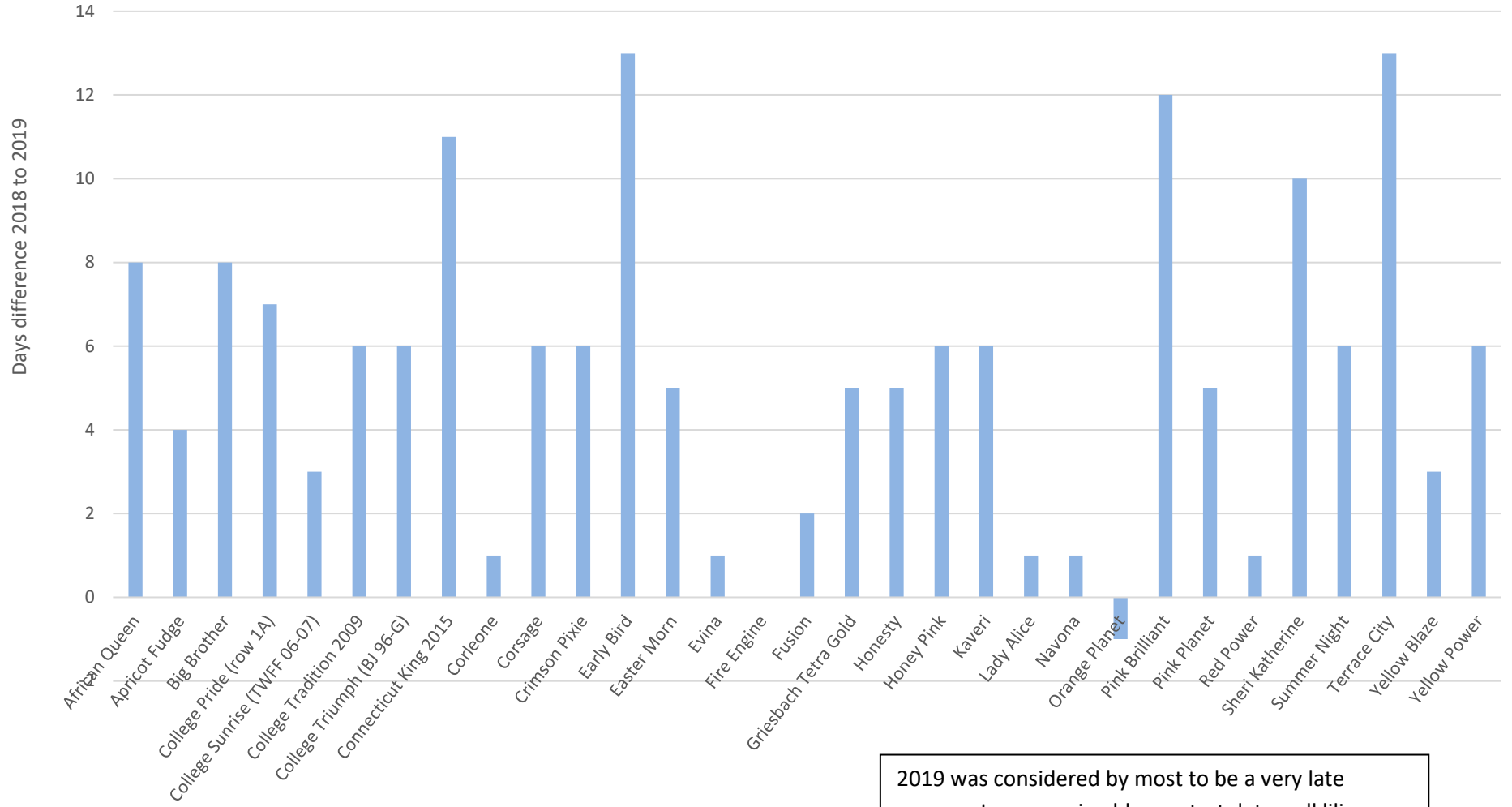
In 8 of 13 cases, 2017 showed the greatest number of blooms. Reasons for this are unclear, other than the plants have had a chance to settle into their location. Most then decline over the next years.



## 2019 Bloom Dates and Duration (current lilies in plots)



### Bloom Start Dates - 2018 compared to 2019



2019 was considered by most to be a very late season. In comparing bloom start dates, all lilies with the exception of 1 bloomed later than in 2018. Differences ranged from 1 day to 13 days later.