

# OLDS COLLEGE LILY RESEARCH PLOTS

## RESULTS FOR 2018

### GRAPHS

#### Maximum Height

2018 Average maximum heights for current lilies in plots

2016-2018 Average maximum height comparisons for lilies planted in 2015

#### Average Bud Count

2018 Average bud counts for current lilies in plots

2016-2018 Average bud count comparisons for lilies planted in 2015

#### Average Bloom Count

2018 Average bloom counts for current lilies in plots

2016-2018 Average bloom count comparisons for lilies planted in 2015

#### Average Bud/Bloom Count Comparison

2016-2018 Average bud and bloom counts for lilies planted in 2015 (comparison)

#### Average Bloom Duration

2018 Average bloom dates and duration for current lilies in plots

#### Depth Tested Lilies

2018 Average maximum heights for current lilies in depth trial

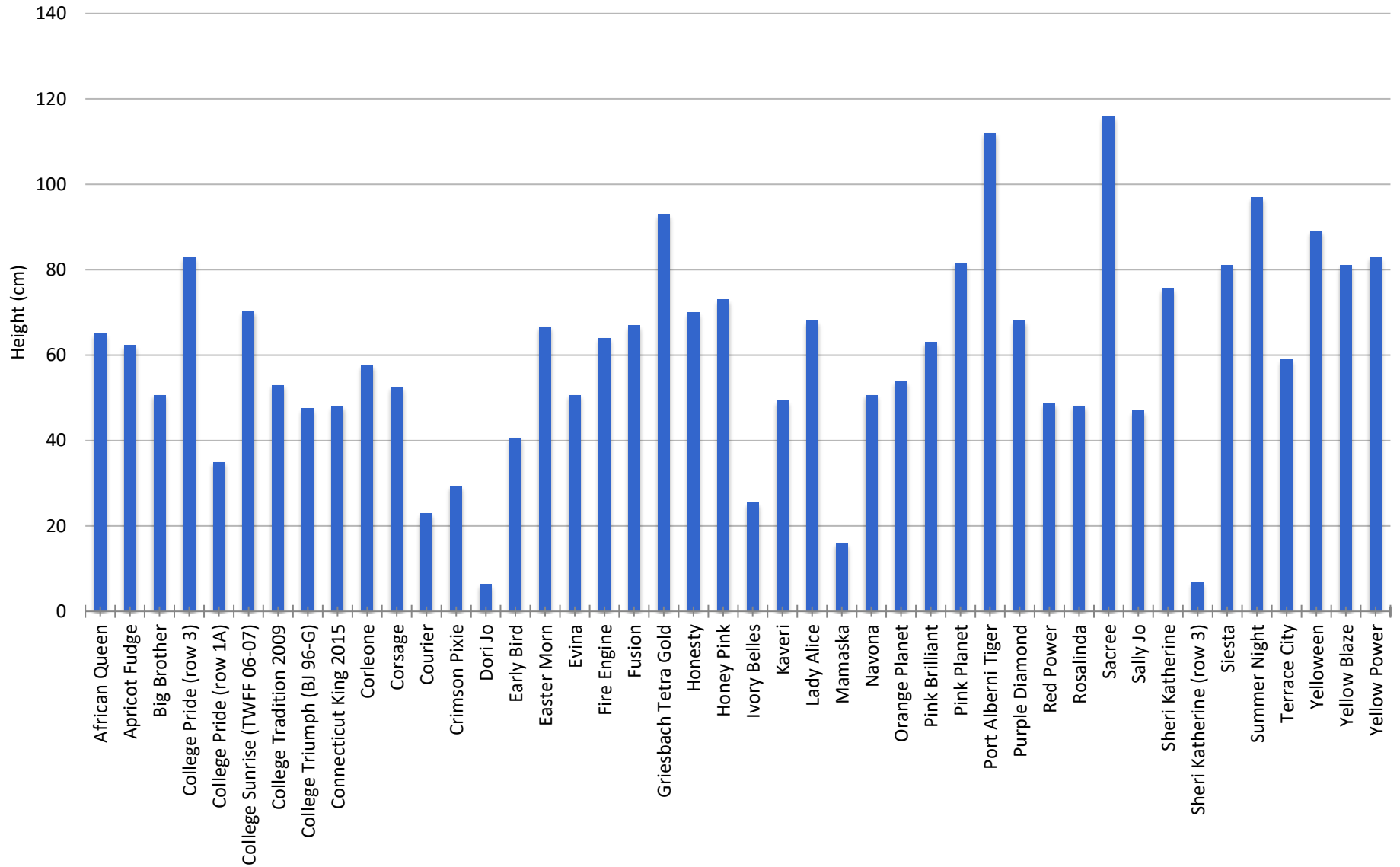
2018 Average bud counts for current lilies in depth trial

2018 Average bloom counts for current lilies in depth trial

#### Notes:

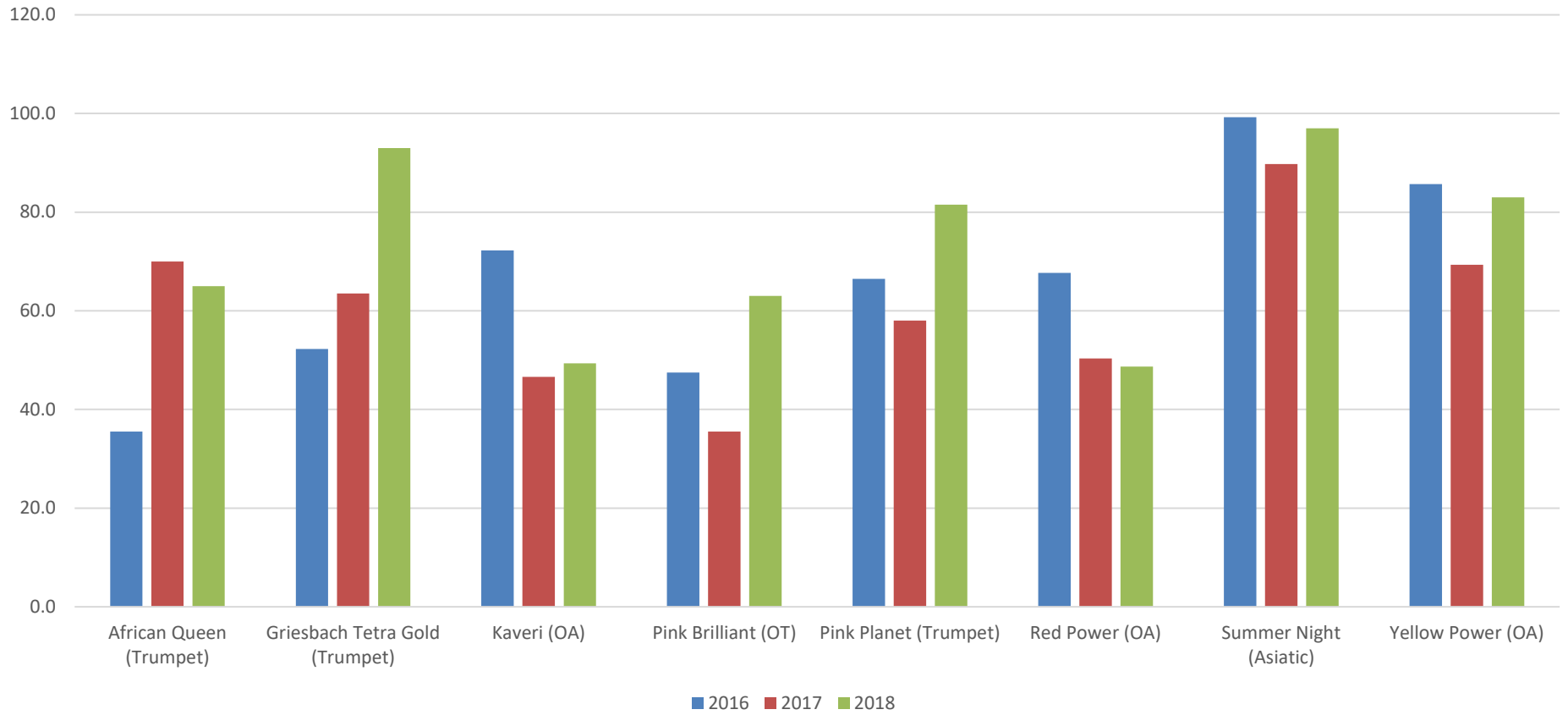
- All measurements and counts are made on the tallest single stem of each plant.

## Average Height of Current Trial Lilies 2018



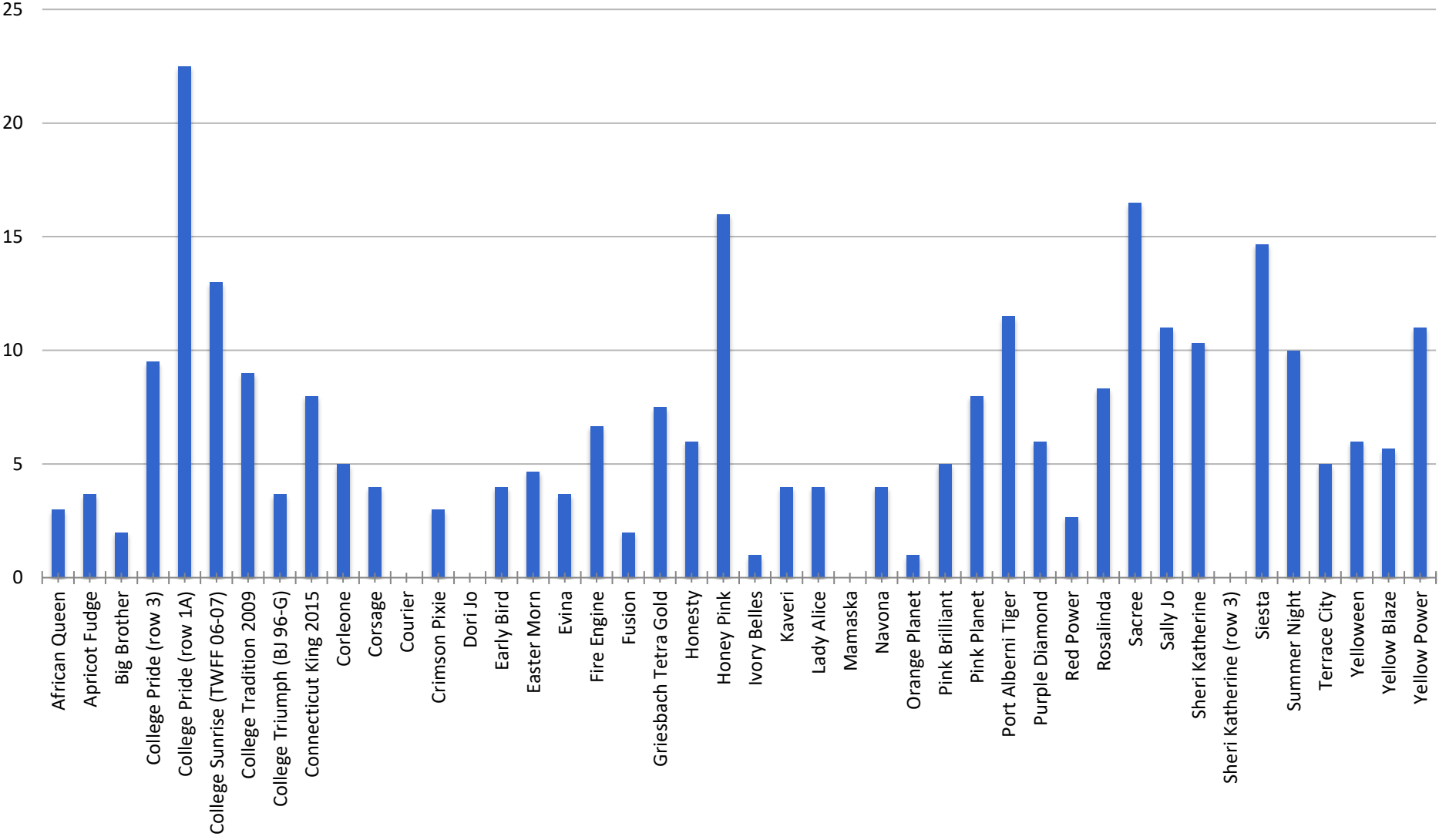


## 2016-2018 Maximum Height Comparison of Trial Lilies Planted in 2015

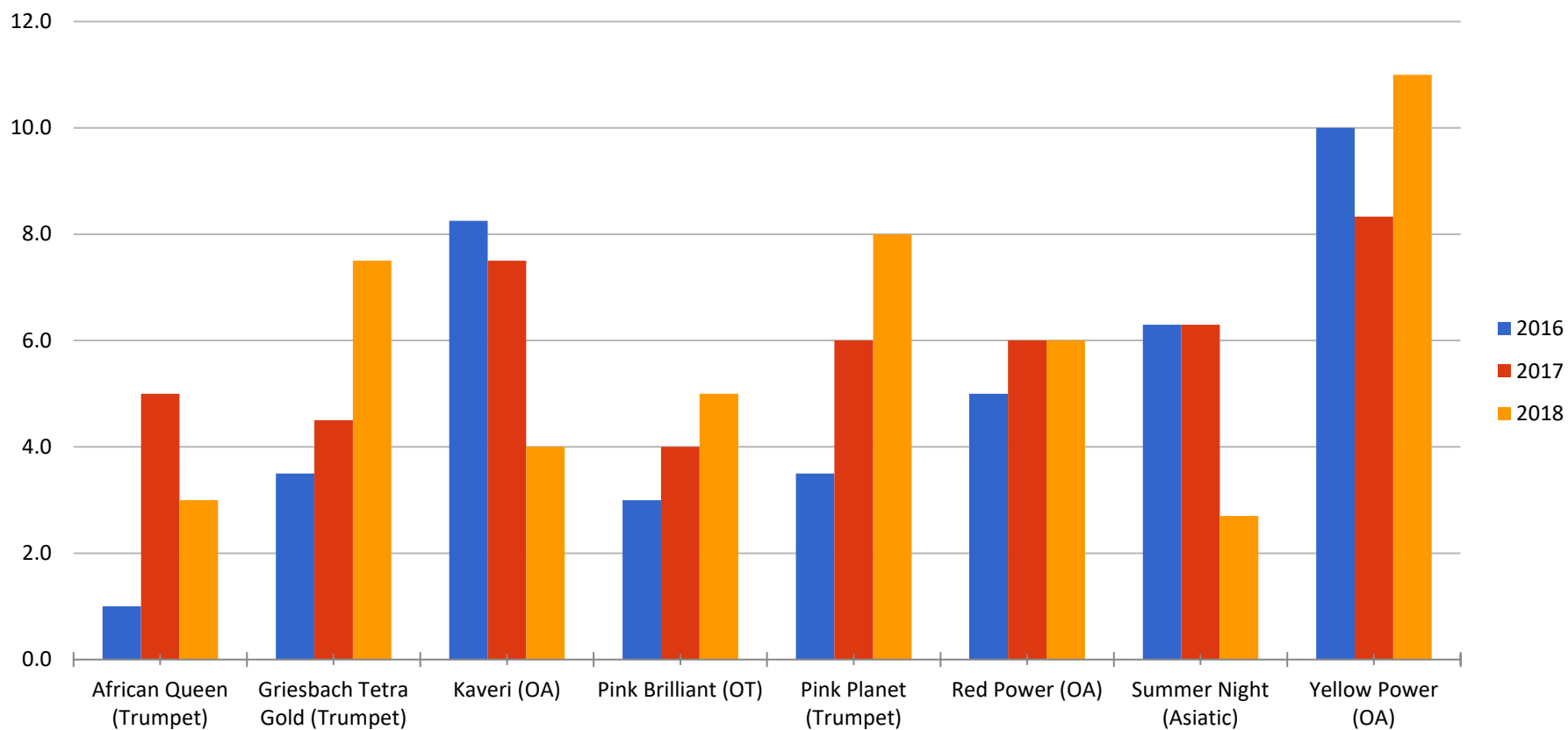


We might expect to see a maximum height reached after 3 seasons, but in 4 cases, height in year 3 is less than year 1. In 6 cases year 2 shows a decrease (which may be attributed to weather) Over all none of the lilies show significant decline after 3 seasons.

# Average Bud Count of Trial Lilies 2018



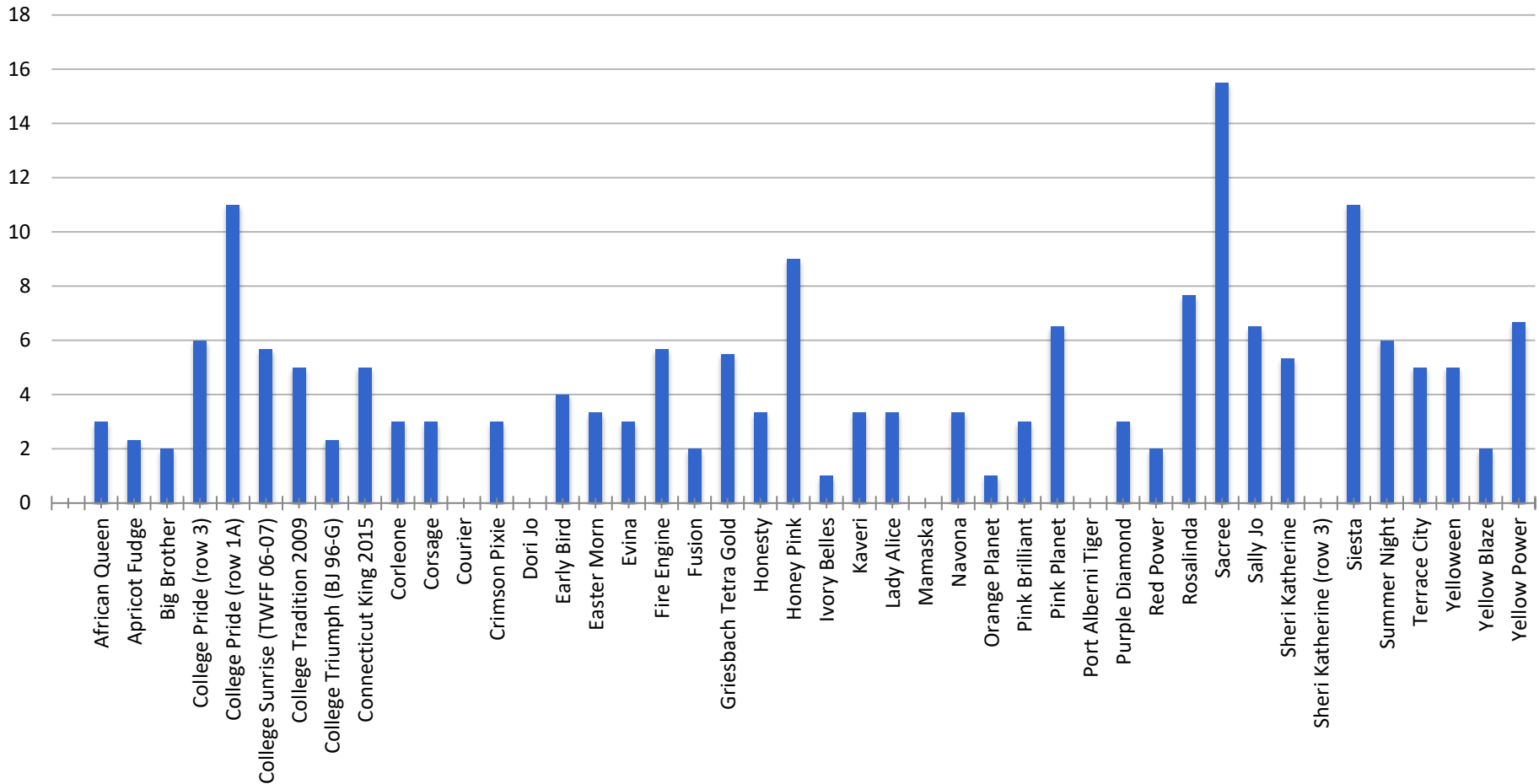
## 2016-2018 Maximum Bud Count Comparison of Trial Lilies Planted in 2015



**NOTE:**

Bud count is generally lower in the first year of growth. In a few cases, bud count trends mimic height trends (ie. taller = more buds) but in others, height is not a factor.

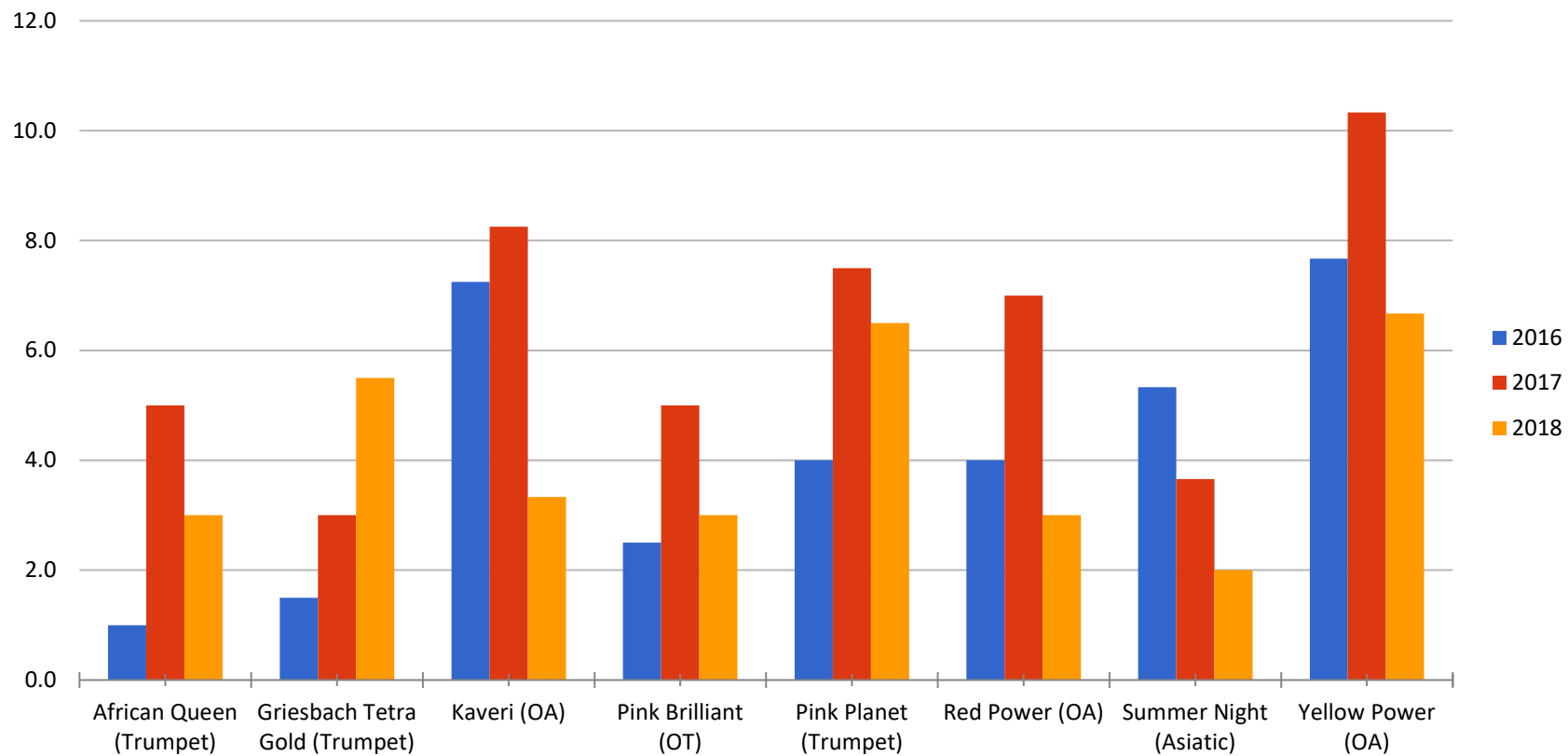
## Average Bloom Count of Trial Lilies 2018



**NOTE:**

Bloom count data was collected for the maximum number of florets open at one time per plant during the blooming period then averaged according to the number of plants. This information gives the average gardener an idea how many blooms a plant will present while blooming.

## 2016-2018 Maximum Bloom Count Comparison of Trial Lilies Planted in 2015

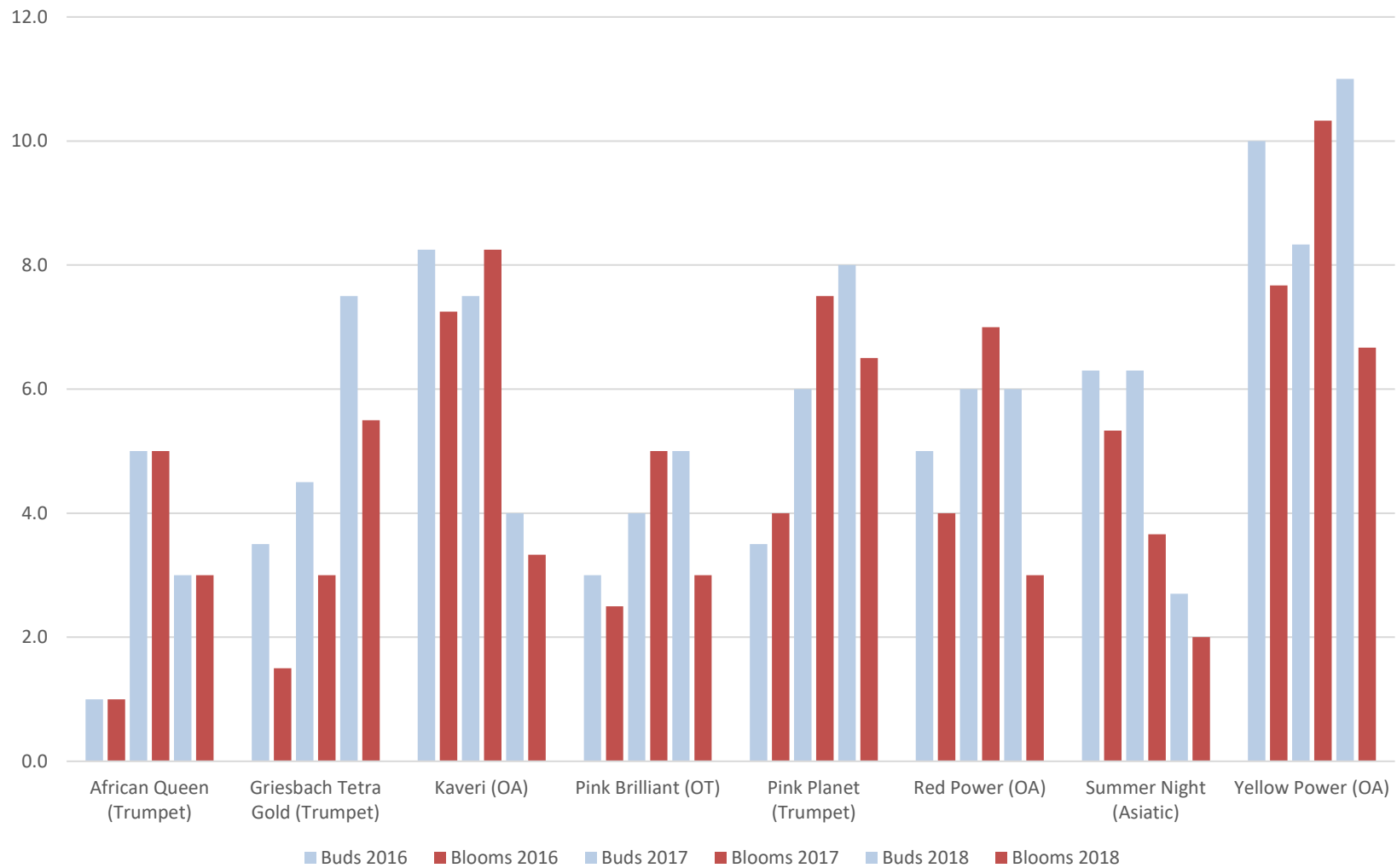


### NOTE:

Bloom count data did not necessarily trend with plant height (taller, bigger plants did not guarantee more blooms). In 5 out of 8 examples, year 2 had the shortest plants but the most blooms.



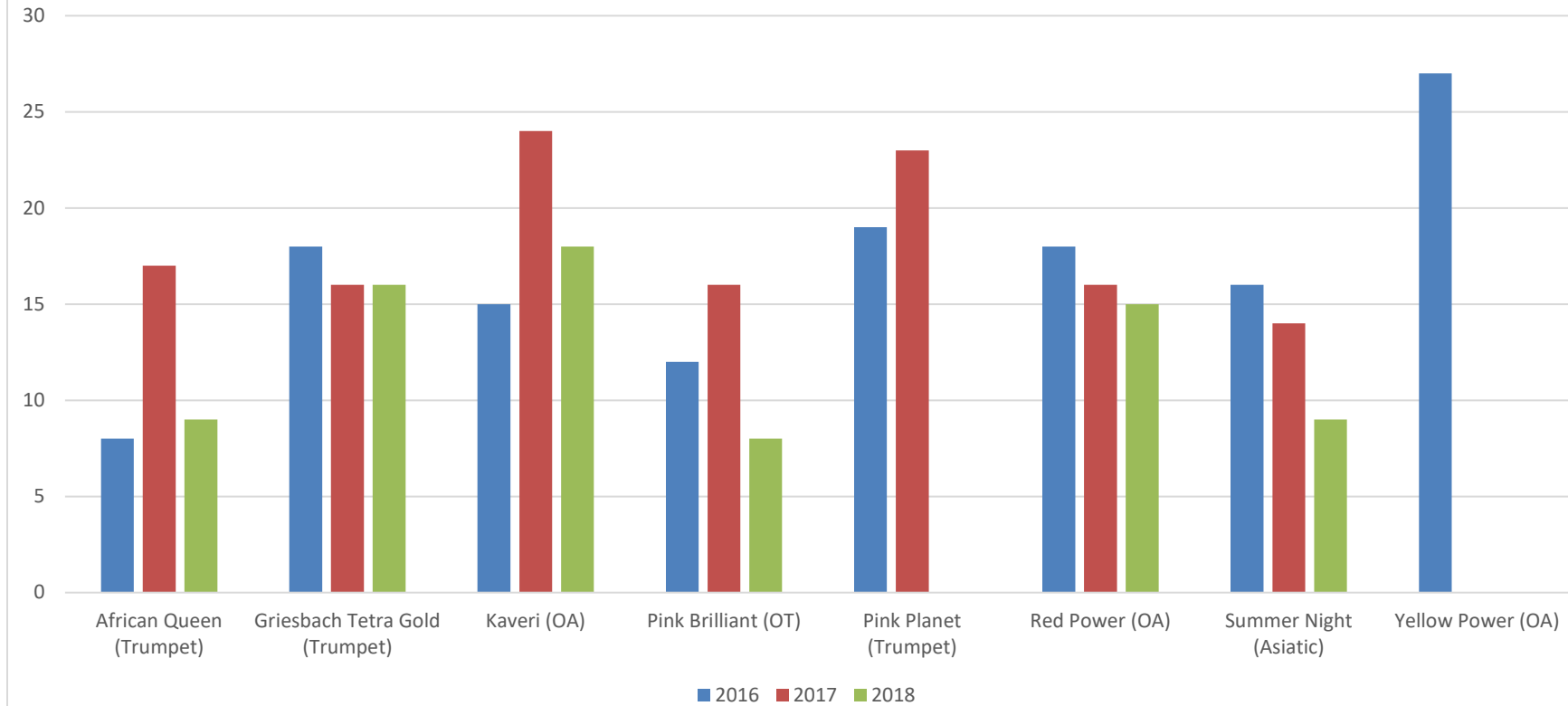
2016-2018 Max Buds/Blooms Comparison of Trial Lilies Planted in 2015



**NOTE:**

Bloom count data should closely match bud count, or perhaps be a bit lower (if some buds aborted before blooming). In a handful of cases, bloom count exceeded bud count, indicating a possible error in data collection.

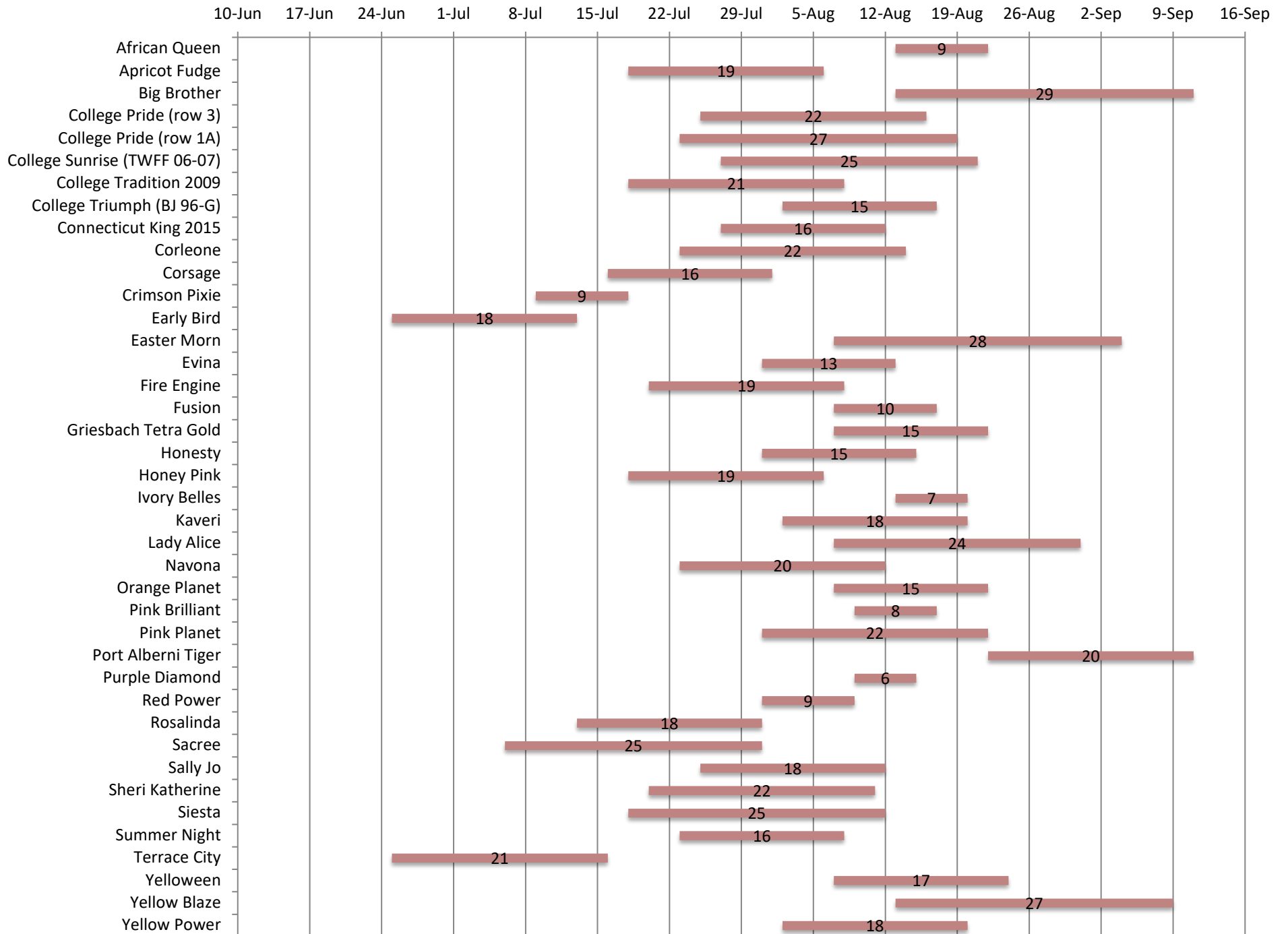
## 2016-2018 Maximum Bloom Duration Comparison of Trial Lilies Planted in 2015



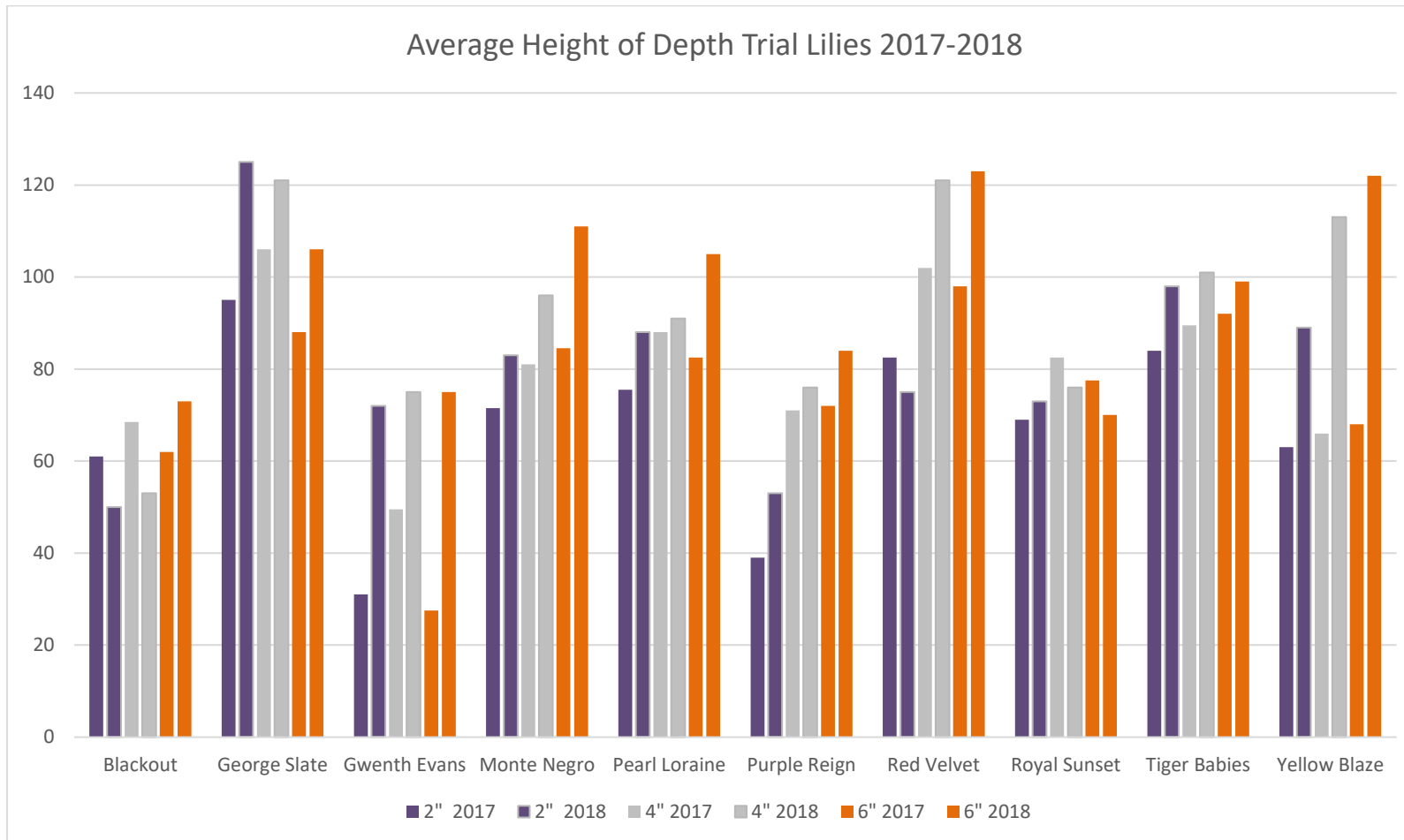
**Note:**

The chart below indicating length of bloom, and start and end time of bloom is of particular interest to gardeners. If they are looking for a long-blooming lily this will give them that information. And if they are looking to achieve lilies in bloom throughout as much of the season as possible, this chart will allow them to make appropriate choices.

# 2018 Bloom Start Dates and Duration (current lilies in plots)



# DEPTH TRIAL LILIES

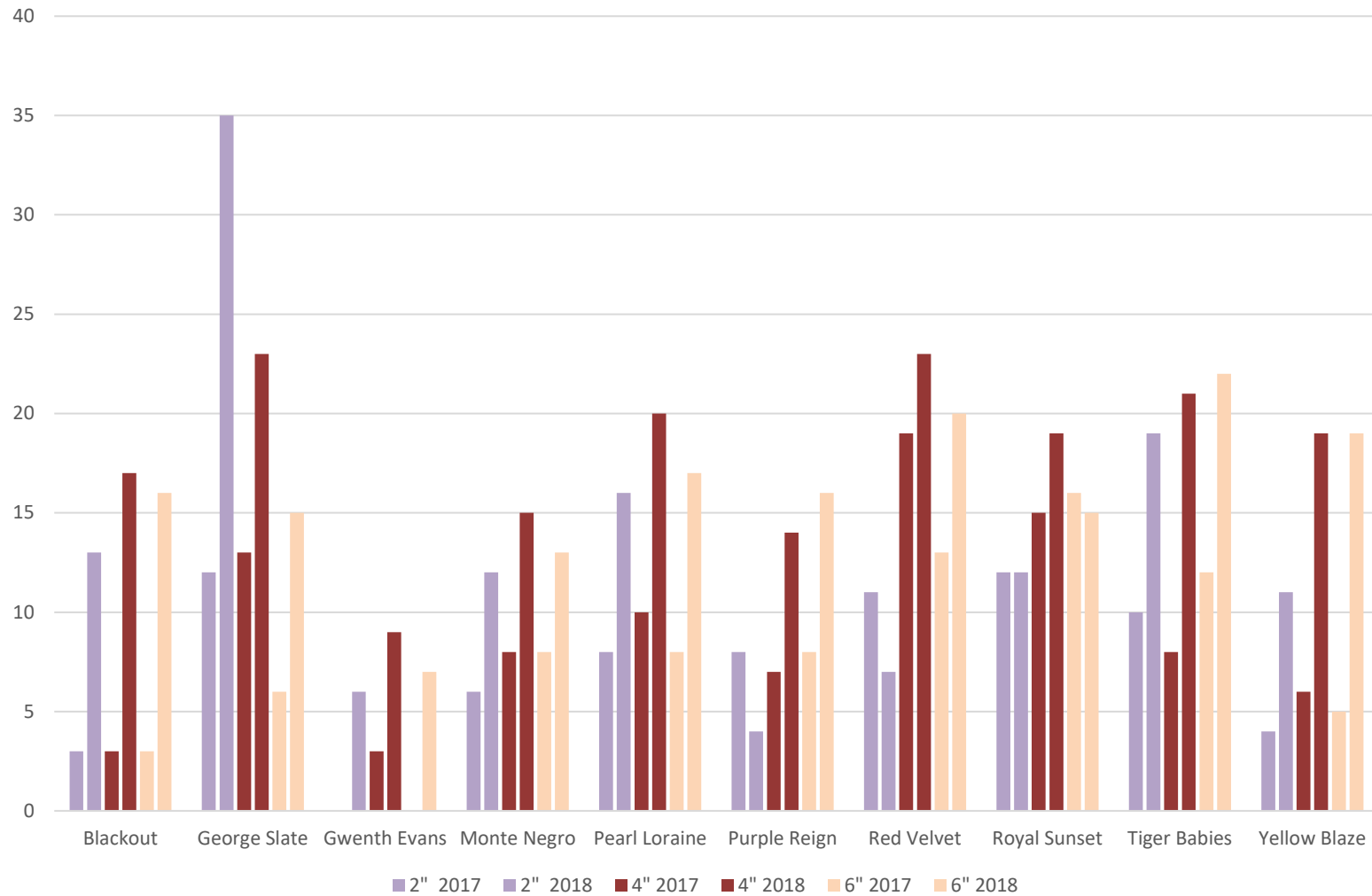


**Note:**

In 2016 ten lilies were planted at three separate heights; two inches, four inches and six inches. Commonly six inches of soil depth is used when planting lily bulbs. This trial is attempting to explore the lily bulbs ability to adjust to different soil depths.

In most cases, bulbs in their second year were taller than the first year, regardless of what depth they were planted. Also in most cases the lilies planted at 6" were the tallest.

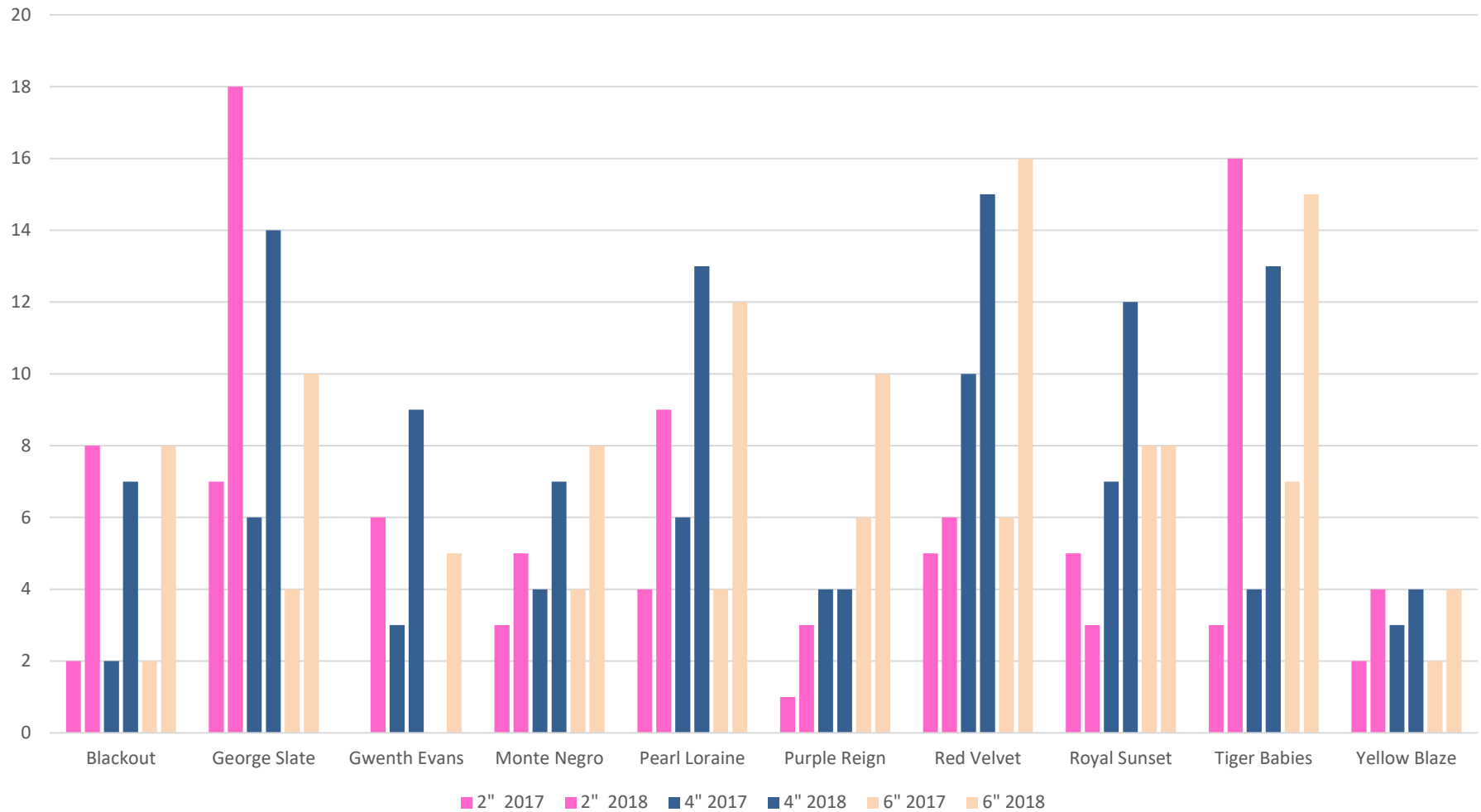
## Average Bud Count of Depth Trial Lilies 2017-2018



**Note:**

In virtually all cases lilies had more buds in the second year of growth. Bud count in most cases was highest in the 4" depth lilies.

## Average Bloom Count of Depth Trial Lilies 2017-2018



**Note:**

In all but one case, lilies in their second year of growth produced more blooms. Bloom counts did not trend in relation to depth of planting.