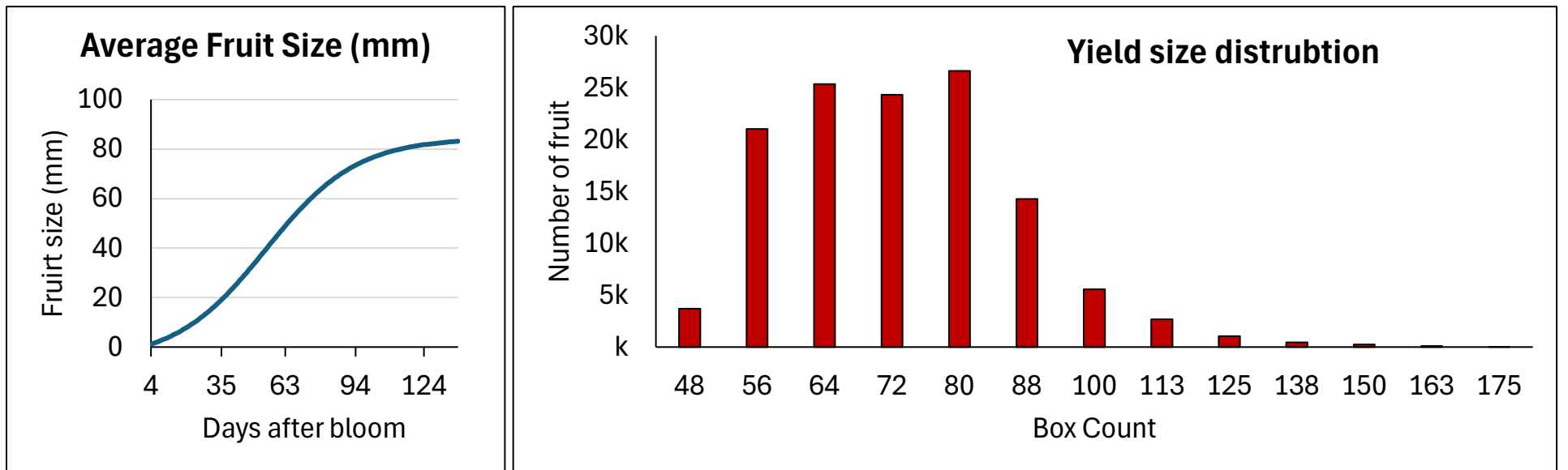


- The average fruitlet number was high: (+250 fruit) on May 17th and May 20th
- After NAA thinning sprays (5/16 and 5/23), camera recognized less fruit number per tree overtime (red arrow)
- By June 11th, over half of trees in orchard were close to grower target (red apple)
- Additionally, 85% of trees had between 50-100 apples
- On July 8th, additional scan confirmed majority of trees were close to target fruit number (bar graph)

Estimate Crop Load of Orchard Dale Honeycrisp Block - 2024

Total fruit count	Avg. fruit number per tree	Estimated Avg. Fruit size at harvest	Estimated bin count/acre
125,390	63	83.2	62



Take aways:

- From a large sample size, Vivid Machines provides fairly accurate estimates of average fruit number per tree
- More research and development are needed prior to having accurate estimates on an individual tree basis
- More research is needed to use fruit counts obtained during the thinning window to guide thinning sprays
- Ongoing Cornell research is exploring harvest prediction estimates as well as variable rate spraying