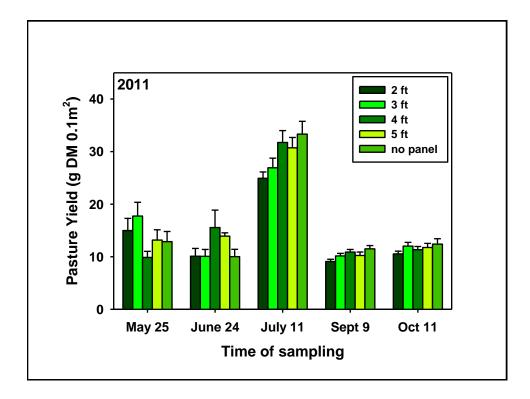
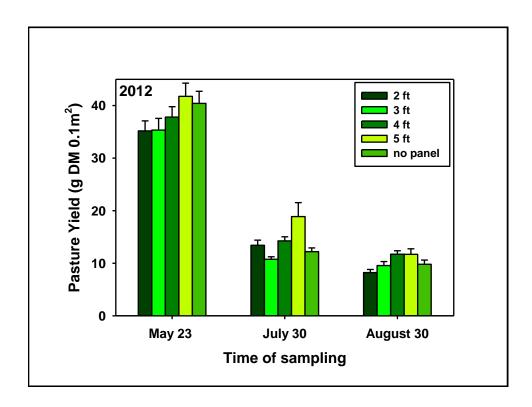


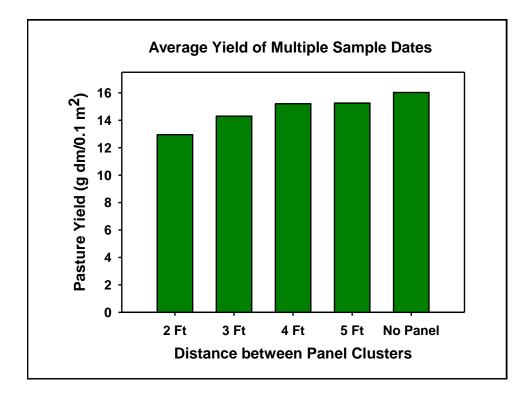


12/1/2020









## Pasture Yield Summary

- The previous slide indicates on average yields were increased with more space between panels.
- With 3.5 to 4 feet between panel clusters a yield of 90% to 95% of the control without shade from solar panels.
- This seems an acceptable yield given the benefit from electrical power generated by the solar panels.



Broccoli, Swiss Chard, Kale, Pepper under shade and unshaded plots transplanted June 7, 2016.

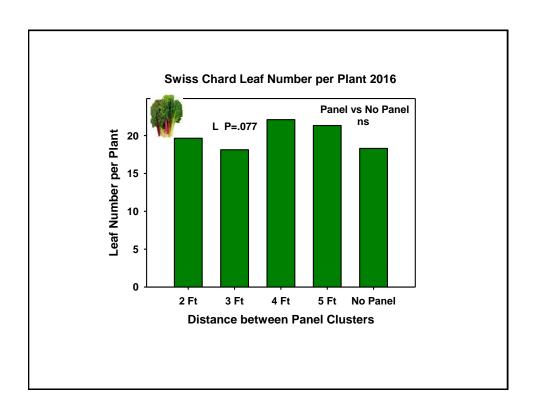
Future crops: Common Bean and Cabbage were planted as second summer crops. Cabbage failed because of the heat and drought in 2016.

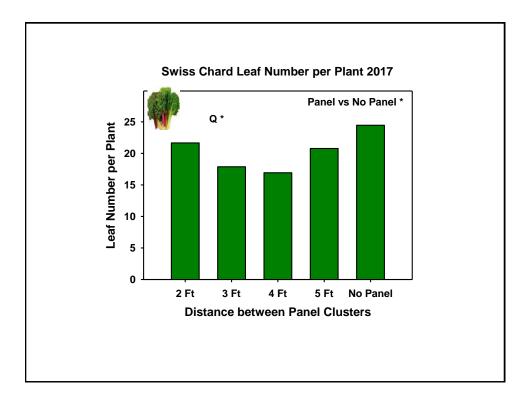


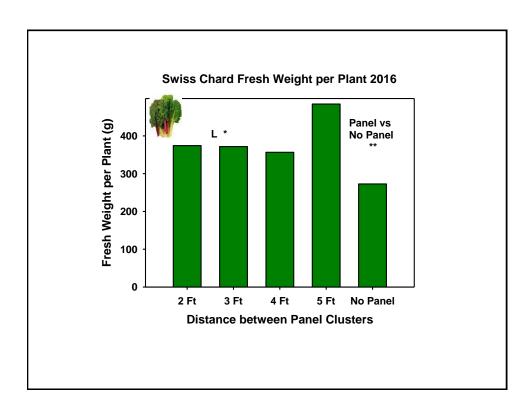


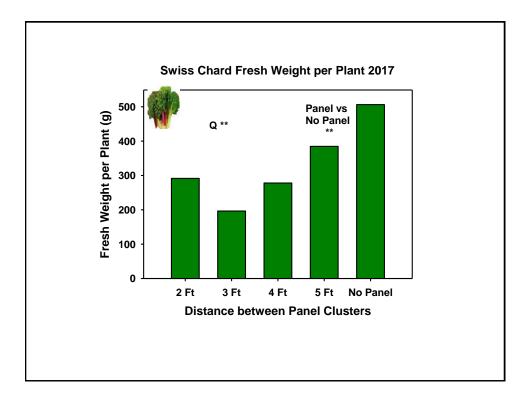


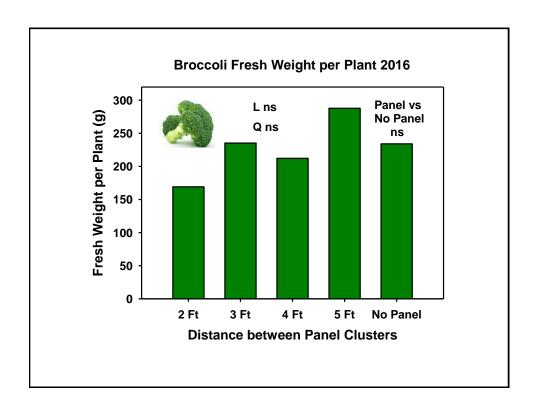


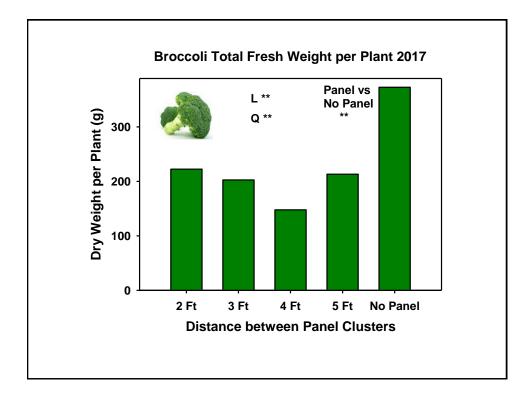


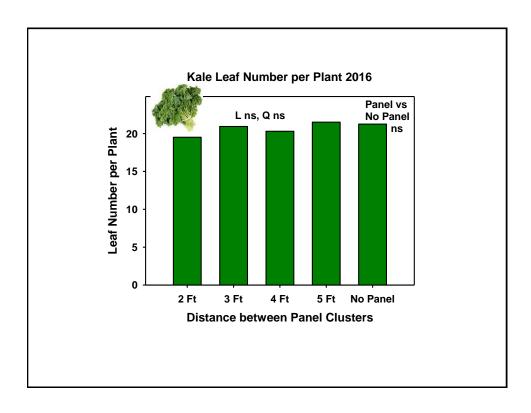


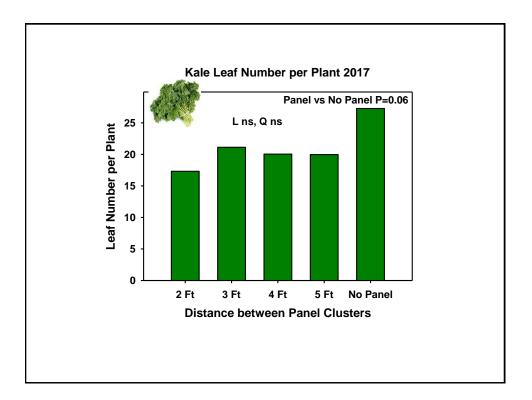


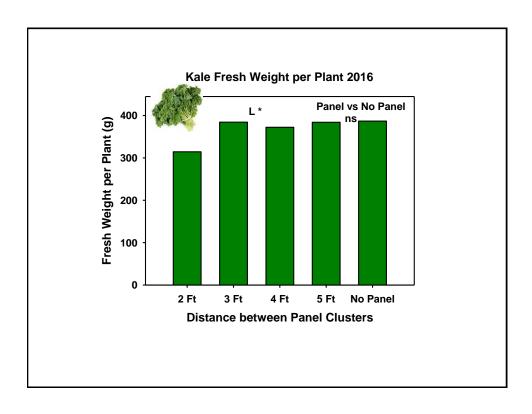


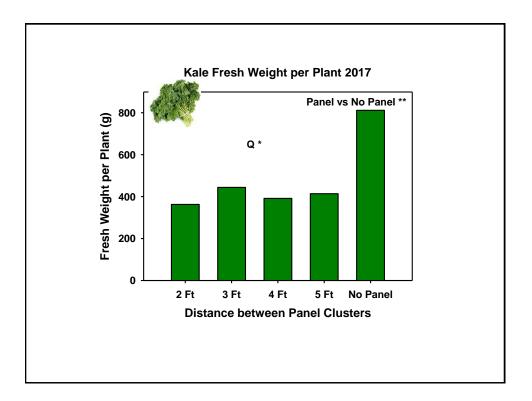


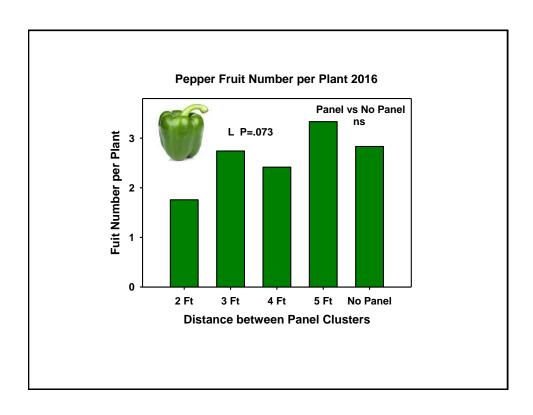


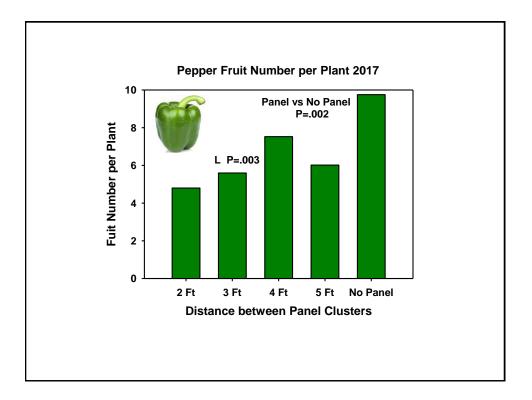


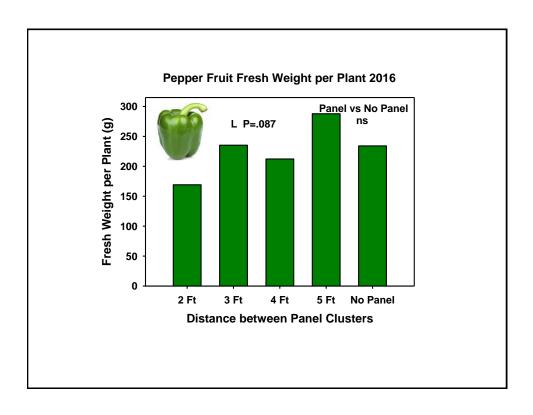


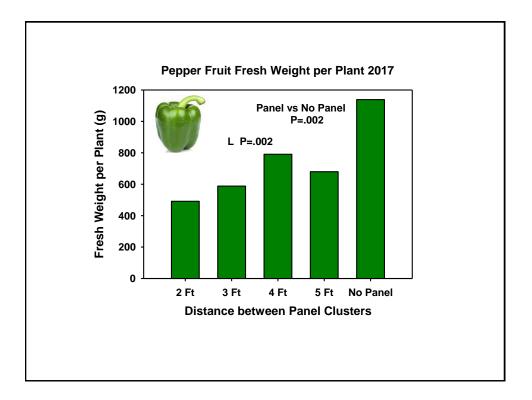


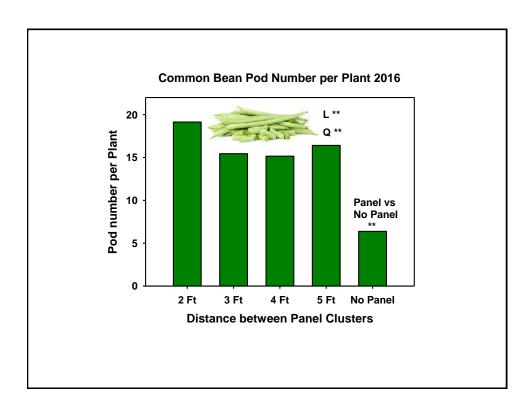


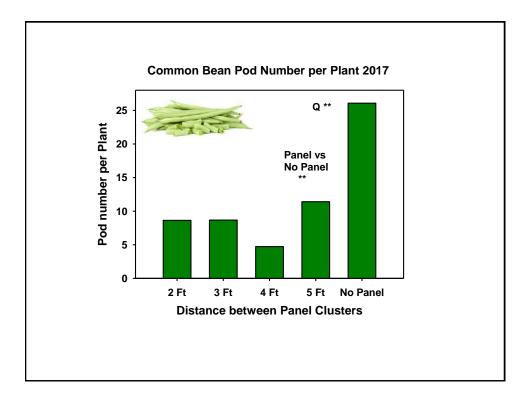


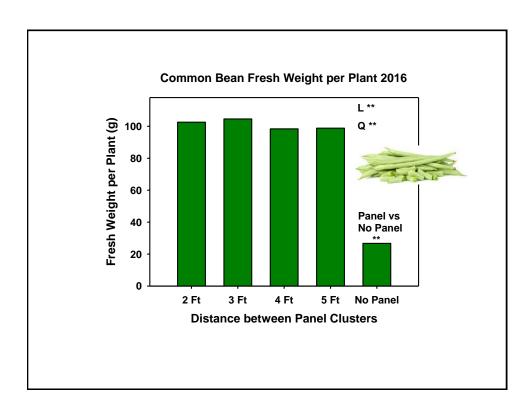


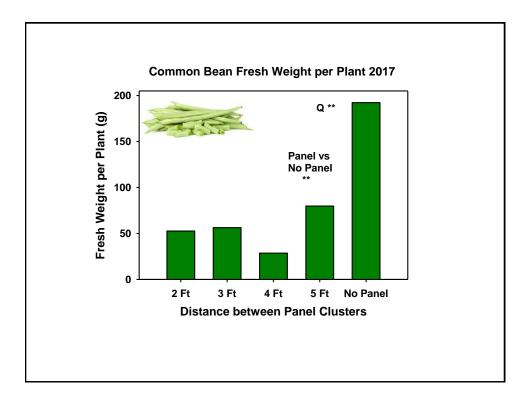


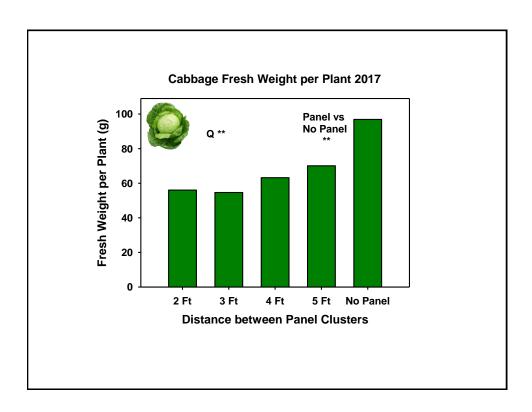


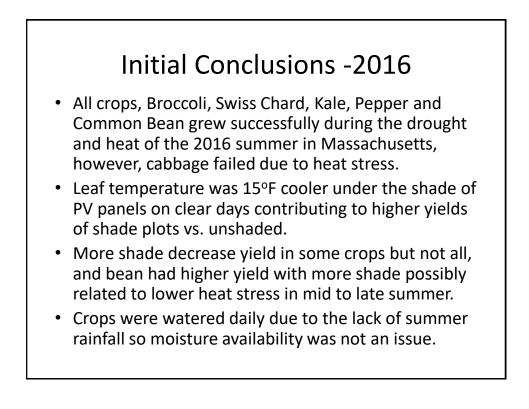














- All crops, Broccoli, Swiss Chard, Kale, Pepper (first crops), and Common Bean and Cabbage (second crops) grew successfully during the cooler summer in 2017 in Massachusetts.
- The lack of heat stress on most days in 2017 resulted in higher yields of unshaded plots vs. shaded plots.
- More shade decrease yield in some crops but not all, and the higher yield bean with shade was reversed for unshaded related to lower heat stress in 2017.
- Crops were watered as needed in 2017 which had good summer rainfall.

