Modern technology increases efficiency in agricultural production through precision application of seed, fertilizer, and pest management. There is also a knowledge and learning gap that can come with precision ag equipment and University of Maryland Extension is in a key position to educate producers.

Precision Ag Equipment Day is an annual event that brings in speakers and vendors to one location. This allows producers and agribusinesses to gather to listen and discuss the most recent precision Ag techniques and technology. Each year approximately 300 participants are in attendance from Maryland, Delaware and Virginia.

Attendees reported the following; 60% of attendees plan to implement the information they learned at the field day into their operation, and 37% increase in knowledge.

In paired sample correlations there were statistically significant increases in all following five knowledge areas:

- Applications of UAV/UAS to crops or livestock management: 63%
- Precision ag data accuracy and usage: 23%
- Precision ag equipment: 18%
- Precision agriculture technologies: 17%
- Drone, Unmanned Aerial Vehicle (UAV), Unmanned Aerial Systems: 63%