



# 2019 Hawaii Farm Technology Use Report



Cooperating with the Hawaii Department of Agriculture

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Released: October 18, 2019

## Survey Results Show Demand for Technology on Hawaii Farms

Farm technology, from drones to accounting software, is used and in demand by Hawaii farmers, according to a recent survey conducted by the USDA National Agricultural Statistics Service (NASS), in cooperation with the Hawaii Department of Agriculture (HDOA). The Hawaii Farm Technology Use survey was conducted during the fall of 2019 to determine the types of technology farmers currently use and the number of specific items farmers wanted in the future. NASS mailed the survey questionnaire and then did phone follow-up to a sample size of 1,750 farms, which included farmers in all of Hawaii’s counties. This was the first year this survey was conducted. Results from the survey include:

- 1,516 pieces of video surveillance technology are used on farms in Hawaii and farmers want more. Farmers reported 3,383 pieces of video surveillance technology are wanted.
- Drones are in demand on Hawaii farms, with 872 wanted for future use to add to the 182 currently used.
- Hawaii farms are short the 2,778 of GPS/RFID livestock tracker tech in demand. Farmers reported they are using 69 livestock tracker tech across all farms in the state.
- Smart phone apps are used by farms across all categories, with 1,263 in use today and 1,208 wanted.

### Hawaii: Types of Farm Technology, Number Used, Number Wanted, 2019

Type of Technology	Number Used	Number Wanted (in addition to Number Used)
<b>Physical Technology</b> (hardware)		
Tablet for farm use (i.e., Apple iPad, Samsung Galaxy Tab)	1,210	1,512
Satellite Phones	634	737
Unmanned Aerial Vehicle for farm use (i.e., drone)	182	872
Video Surveillance	1,516	3,383
Hand Held Sensors (moisture, plant health, etc.)	364	1,085
Field Sensors (moisture, soil conditions, etc.)	251	1,153
GPS – Guided Equipment	148	414
GPS / RFID Livestock Tracking	69	2,778
<b>Non-Physical Technology</b> (software)		
Smart Phone Apps (field conditions, yield information, etc.)	1,263	1,208
Computer Applications (budget, farm operations, etc.)	1,945	1,357
Third Party Service Application (i.e., fee for service plan)	322	266