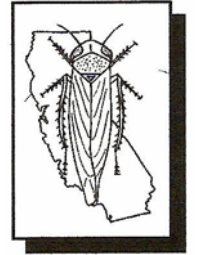


BEET CURLY TOP VIRUS MONTHLY REPORT



CURLY TOP VIRUS CONTROL PROGRAM

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Report for Oct.- Nov. 2018

Weather Outlook

- The 2018-19 winter weather outlook suggests there is a 70-75% chance of an El Nino developing December - February. Scientists have already stated the waters around the equator have started warming, thus indicating an El Nino. The National Oceanic and Atmospheric Administration's (NOAA) Climate Prediction Center stated that they expect a weak El Nino to be in place in late fall to early winter, which could potentially bring wetter conditions across the southern and eastern U.S., and warmer, drier conditions to parts of the northern and western U.S.

According to the NOAA predictions, California has equal chances of a drier than normal or wetter than normal winter. (Please refer to NOAA maps on the next page).

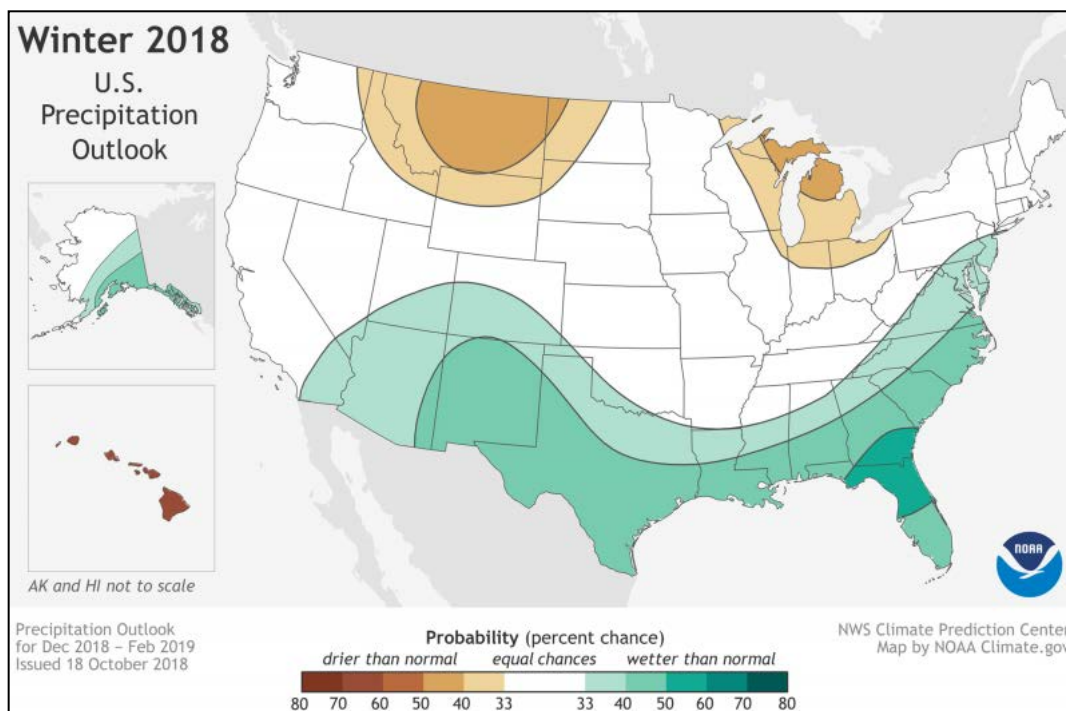
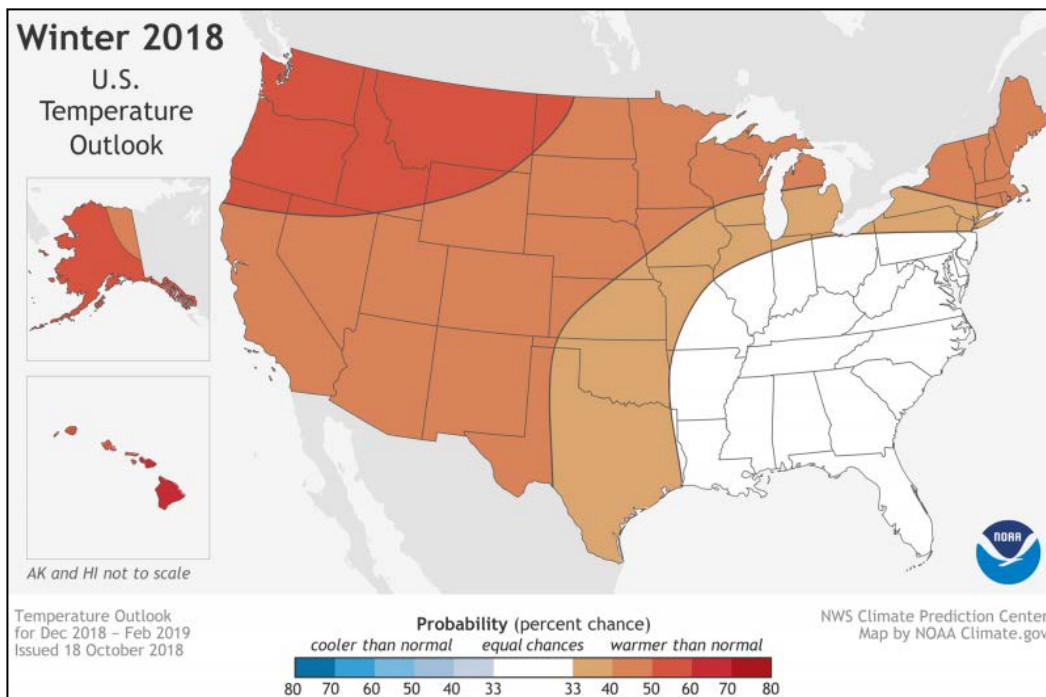
- Updated weather information will be posted with each report until spring. Timing and the amount of rain, temperatures, and available host plants will determine BLH populations.

Websites used for weather information:

- <https://weather.com/storms/winter/news/2018-10-18-winter-outlook-united-states-noaa-2018-2019/>
- <https://www.kron4.com/news/bay-area/in-depth-coming-el-nino-could-quench-california-s-thirst-for-water/1592943486>
- http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf
- <https://www.washingtonpost.com/weather/2018/10/18/noaa-winter-outlook-el-nio-may-mean-stormy-conditions-south-eastern-us/?noredirect=on>
- <https://earthsky.org/earth/winter-2018-2018-weather-outlook-for-us>

Program-Wide Notice

- This fall (September-November) Beet leafhopper (BLH) counts did not meet treatment threshold counts to justify a fall spray campaign. Average BLH counts were 0-2 per sweep. Program personnel will continue to monitor the BLH populations in the foothills and on the valley floor, throughout the winter months.
- As of mid-November, the germination of BLH host plants in the foothills and rangelands has not occurred. Many fallow fields that were being monitored by the Program have been disked or will be disked soon. Some remaining Russian thistle along roadsides and near fallow fields was showing signs of stress and drying out. BLH counts remain low; 0-2 per sweep.
- Rainfall at the end of November may have been sufficient to allow winter host plants to germinate in the BLH overwintering habitat on the hillsides and rangeland.
- Program personnel will survey Riverside and Imperial Counties the week of



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