

Almond Board of California Disease Forecasts 2023
in cooperation with the University of California and Semios

Table 1. Daily risk assessment disease forecasts for Wed., April. 4 through Wed., April 13, 2023*

No.	County	Region	Alternaria leaf spot (date, value, level)^	Anthraco nose (date, value, level)^	Bacterial blast (date, value, level)^	Bacterial spot (date, value, level)^	Green fruit rot (date, precipitation, level)^
1	Butte	West	0	0	0	0	4/6-4/7: 12.58 mm total; high
2	Colusa	East	0	0	0	0	4/6-4/7: 5.79 mm total; low
3	Fresno	East	0	0	0	0	0
4	Fresno	Central	0	0	0	0	0
5	Fresno	West	0	0	0	0	4/13: 0.56 total; low
6	Kern	Central	0	0	0	0	0
7	Kern	West	0	0 (21-day risk, 0.09, low)	0	0	0
8	Kern	East	0	0 (21-day risk, 0.08, low)	0	0	4/13: 0.06 total; low
9	Madera	Central	0	0	0	0	4/6: 0.03 total; low
10	Merced	Central	0	0	0	0	0
11	Stanislaus	East	0	0	0	0	4/5: 0.08; total; low
12	Stanislaus	Central	0	0	0	0	0
13	Stanislaus	West	0	0	0	0	0

* - 7-day forecasts are based on temperature (inside- and outside-canopy measurements), precipitation, and leaf wetness which are powered by the Semios® precision farming platform.

^ - Numerical risk is scaled as follows: 0 = no risk, 1 = action threshold (Note: values may exceed 1 due to hourly accumulations).

Industry Advisory - Summary for Selected Almond Growing Regions

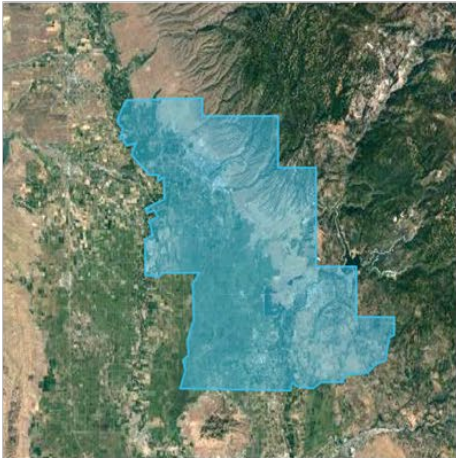
Precipitation occurred sporadically in all regions except Stanislaus-West last week, with a maximum amount of 2.64 mm (0.103 in) in Kern-Central on 3-30-23. Temperatures were cool last week with in-canopy temperatures above freezing to 13.5 C (56.3 F). With some additional precipitation forecasted, the risk for green fruit rot is high in Butte-West, however, the risk is forecasted zero to low in all other regions listed (see Table 1). Wetness allows *Botrytis cinerea* and other fungi to grow from senescing flower parts into healthy developing fruit. The pathogens of green fruit rot can still grow at cool temperatures. Therefore, areas that had high rainfall should be scouted for green fruit rot, especially in cultivars with high fruit set, and management practices should be applied to prevent this disease.

Predicted low rainfall and low temperatures in the coming week will result in a zero risk for Alternaria leaf spot and bacterial spot for all regions (see Table 1). Increasing temperatures and forecasted rain will result in anthracnose potentially showing up in the 21-day forecast for Kern-East and Kern-West regions. Forecasted temperatures were warmer than threshold levels for bacterial blast and canker that are below 0 C; 32 F that also make these diseases at low risk in the coming week and potentially the rest of the year. Bacterial blast samples (i.e., twig dieback), brown rot blossom blight (spur and shoot dieback), and green fruit rot that are currently being submitted to my lab are positively identified for these three diseases. These diseases that resulted during the cold wet weather events in Feb. - March during bloom are developing symptoms with the warmer conditions experienced in the last two weeks.

The website <https://www.ag-radar.com> (password: Almondboard2022) displays actual and forecasted disease risk assessments for each region. Because these are regional forecasts, actual and predicted precipitation may vary among locations within each region. Additionally, historical records and experience for specific locations should be considered. This advisory will be updated weekly. The website "2022 Fungicide Efficacy Tables" is available to optimize fungicide selection and applications (<http://ipm.ucanr.edu/PDF/PMG/fungicideefficacytiming.pdf>).

Fig. 1. Maps of counties and regions.

Butte West



Colusa East



Fresno Central



Fresno East



Fresno West



Fig. 2. Maps of counties and regions.

Kern West



Kern East



Kern Central



Stanislaus Central



Stanislaus East



Stanislaus West

