

Almond Board of California - Disease Forecasts in cooperation with the University of California

Table 1. Daily risk assessment disease forecasts for Thursday, Feb. 24 through Wednesday, Mar. 2, 2022*

No.	County	Region	Anthrac-nose	Brown rot blossom blight	Bacterial blast risk (date, value, level)^	Bacterial spot (date, value, level)	Alternaria leaf spot	Scab
1	Butte	West	0	3-2, (1.84 mm, avg T 6.3C), Low risk	2-23, 2-24 (3.1, 0.5) High risk	3-2 (0.1) Low risk	Starts 4/1	Starts 4/1
2	Colusa	East	0	3-2, (0.36 mm, avg T 14.1C), Low risk	2-23 (4.5) High risk	0	Starts 4/1	Starts 4/1
3	Fresno	East	0	2-24 (0.06 mm, avg T 6.4C), Low risk	0	0	Starts 4/1	Starts 4/1
4	Fresno	Central	0	0	2-23, 2-24, 2-25 (3.4, 2.9, 0.9) High risk	0	Starts 4/1	Starts 4/1
5	Fresno	West	0	0	2-23 (0.2) Low risk	0	Starts 4/1	Starts 4/1
6	Kern	Central	0	0	0	0	Starts 4/1	Starts 4/1
7	Kern	West	0	0	2-23, 2-24 (2.4, 0.2) High to low risk	0	Starts 4/1	Starts 4/1
8	Kern	East	0	0	0	0	Starts 4/1	Starts 4/1
9	Stanislaus	East	0	0	2-23, 2-24 (3.5, 3.6) High risk	0	Starts 4/1	Starts 4/1
10	Stanislaus	Central	0	0	2-23, 2-24 (2.6, 4.5) High risk	0	Starts 4/1	Starts 4/1
11	Stanislaus	West	0	0	0	0	Starts 4/1	Starts 4/1

* - 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). The daily blast index is based on hourly temperatures from noon of the current day to noon of the next day. A moderate risk for frost damage occurs when the risk index is 0 to <1 [minimum temperatures are >28F (-2.2C) and <30F (-1C)]; whereas a high risk occurs when the risk index is ≥1 [minimum temperatures are ≤28F (-2.2C)]. Temperatures ≥30F (-1C) are not a risk to almond for frost damage to occur.

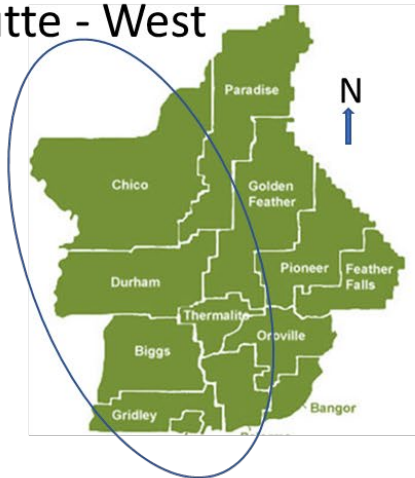
Industry Advisory - Summary for Selected Almond Growing Regions

In the next few days, there is high risk for **bacterial blast** (*Pseudomonas syringae*) forecasted in Butte-West; Colusa East, Fresno-Central, Kern-West; and Stanislaus-East and -Central (Table 1). Forecasts are based on regional maps shown in Fig. 1 that correspond to the counties and regions described in Table 1. The website www.ag-radar.com displays actual and forecasted disease risk assessments and regional maps. A password is available on the Almond Board 2022 website. Forecasted minimum temperatures are 27.1F to 27.8F (-2.3C) in Butte-West and Colusa-West; 28.5F to 29.3F (-1.5C to -1.9C) in Fresno-Central; -2.1 (28.2C) in Kern-West; and 27.3F to 30.2F (-1C to -2C) in Stanislaus-East and -Central. Because these are regional forecasts, microclimate temperatures may occur that are lower or higher than forecasted. Please check www.ag-radar.com for up to date forecasts. Historical records and experience for specific locations should be considered. Frost protection practices including irrigations, use of wind machines, and the use of kasugamycin (Kasumin - Section 18 registration for 2022: Feb. 1 through April 15) are strategies to prevent damage. Treatments with kasugamycin should be applied ideally within 7 days before the frost event. For more information, please consult the label.

For **brown rot blossom blight** (*Monilinia* spp.), minor precipitation is forecasted in Butte-West, Colusa-East, and Fresno-East. Average daily temperatures are low at 6.3C, 14.1C, and 6.4C (43.3F, 57.4F, 43.5F) for the three regions, respectively, for brown rot infections to occur. A minor risk for **bacterial spot** (*Xanthomonas arboricola* pv. *pruni*) is present for Butte-West. No conventional or biological fungicide or bactericide applications for brown rot and bacterial spot are advised. This advisory will be updated weekly.

Fig. 1. Maps of counties and regions with forecasted bacterial blast alerts.

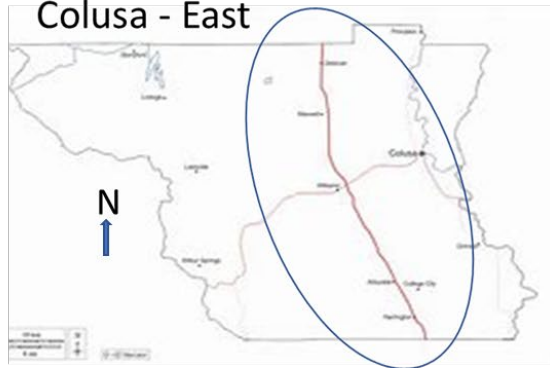
Butte - West



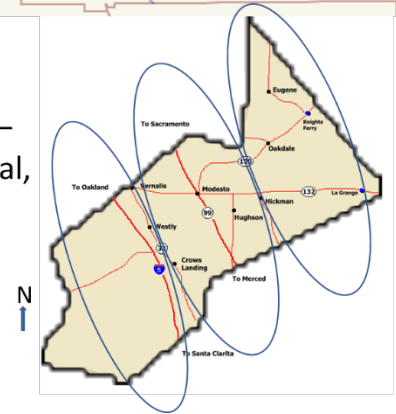
Kern – East, Central, and West



Colusa - East



Stanislaus – East, Central, and West



Fresno – East, Central, West

