

Maine Cranberry Keeping Quality Forecast (2019)

With 16 possible points to be awarded for the forecast model, using weather conditions from the NWS for Bangor and Caribou, **Bangor and Caribou each finished with 5 points.**

Maine Cranberry Keeping Quality Forecast Table

Points Awarded MAXIMUM POSSIBLE POINTS = 16	Keeping Quality (The 'expected' keeping quality of the fruit in the absence of any steps to manage fruit rot)	Interpretation (What to do)
0 to 2	VERY POOR	Be very careful with your fungicide use, particularly in a fresh-fruit situation, as fruit quality will be sacrificed if you reduce your fungicide sprays. Be especially conservative in any beds that were not sprayed with fungicide the previous year, or that had significant rot or scald (especially Stevens if they were scalded).
3 or 4	POOR	You should use full recommended rates and numbers of applications for fruit rot fungicides. However, if you held Late Water, fungicide inputs 'may' be reduced.
5 or 6	FAIR TO GOOD	You should <i>probably not</i> reduce your fungicide rates and/or the number of fungicide applications. (If Late Water was held, you <u>can</u> reduce your fungicide inputs in that situation.)
7 or 8	GOOD	Can 'probably' spray a fungicide just once and no more than twice (<i>definitely</i> spray no more than twice if you used a Late Water flood)
9 to 11	VERY GOOD TO EXCELLENT	Can 'probably' eliminate your fungicide applications or spray no more than once (<i>definitely</i> eliminate if you used a Late Water flood)
12 to 16	EXCEPTIONAL	Can 'probably' eliminate your fungicide applications (<i>definitely</i> eliminate if you used a Late Water flood)

2019

Notes:

- ★ Anytime you have a bed that had excessive rot or a very large crop the previous year, suffered severe drought stress during either of the previous *two* years, or had leaf drop in the spring of the current year, then you should *not* reduce your fungicide sprays, regardless of a 'FAIR' or 'GOOD' forecast model.
- ★ *In general, 'cool and dry' work to the crop's advantage with regards to fruit rot levels (fruit rot fungi like it 'hot and humid'), but if there's a drought, the plants will be stressed such that they are more vulnerable to rot.*

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Maine 2019 Final Cranberry Keeping Quality Forecast

Factors affecting how points are awarded for the keeping quality forecast. (Franklin and Cross. 1948) and revised for Maine conditions. (C. Armstrong)

- 1) If the total of sunshine hours from previous year is less than the 50-year average of 2,274 hours **[4 points]**
- 2) If the total sunshine hours for March (Massachusetts uses Feb.) for the present year is *less than* the 50-year average for that month (143 hr) **[1 point]**
- 3) If the total of sunshine hours for April (Massachusetts uses March) for the present year is *more than* the 50-year average for that month (179 hr) **[2 points]**
- 4) If the total precipitation for April (Massachusetts uses March) for the present year is *less than* the average of East Wareham and Middleboro mean of 4.39 inches **[1 point]**
- 5) If the average temperature for April (Massachusetts uses March) of the present year is *below* the threshold of 34°F **[2 points]**
- 6) If the average temperature for May (Massachusetts uses April) for the present year is *below* the threshold of 44°F **[2 points]**
- 7) If the total precipitation for May (Massachusetts uses April) for the present year is *less than* the average of East Wareham and Middleboro (6.70 inches) **[1 point]**
- 8) If the average temperature for **June** for the present year is below the threshold of 58°F **[2 points]**
- 9) If the total precipitation for **June** (Massachusetts uses May) for the present year is less than the average of East Wareham and Middleboro (3.20 inches) **[1 point]**

MAXIMUM POSSIBLE POINTS: 16

For conditions at Bangor and Caribou:

- 1) Bangor: 1,901 hours → **4 points**
Caribou: 2,254 hours → **2 points**
(compromised for Caribou because so close)
- 2) Bangor: 156 hours → **0 points**
Caribou: 156 hours → **0 points**
- 3) Bangor: 145 hours → **0 points**
Caribou: 160 hours → **0 points**
- 4) Bangor: 5.53" → **0 points**
Caribou: 4.84" → **0 points**
- 5) Bangor: 42.5°F → **0 points**
Caribou: 37.6°F → **1 point**
(compromised with Caribou because so close)
- 6) Bangor: 51.5°F → **0 points**
Caribou: 48.8°F → **0 points**
- 7) Bangor: 4.43" → **1 point**
Caribou: 3.19" → **1 point**
- 8) Bangor: 62.4°F → **0 points**
Caribou: 60.4°F → **0 points**
- 9) Bangor: 5.33" → **0 points**
Caribou: 2.91" → **1 point**

**Total points out of 16 possible:
Bangor and Caribou each finished with 5
points (Forecast = FAIR to GOOD).**