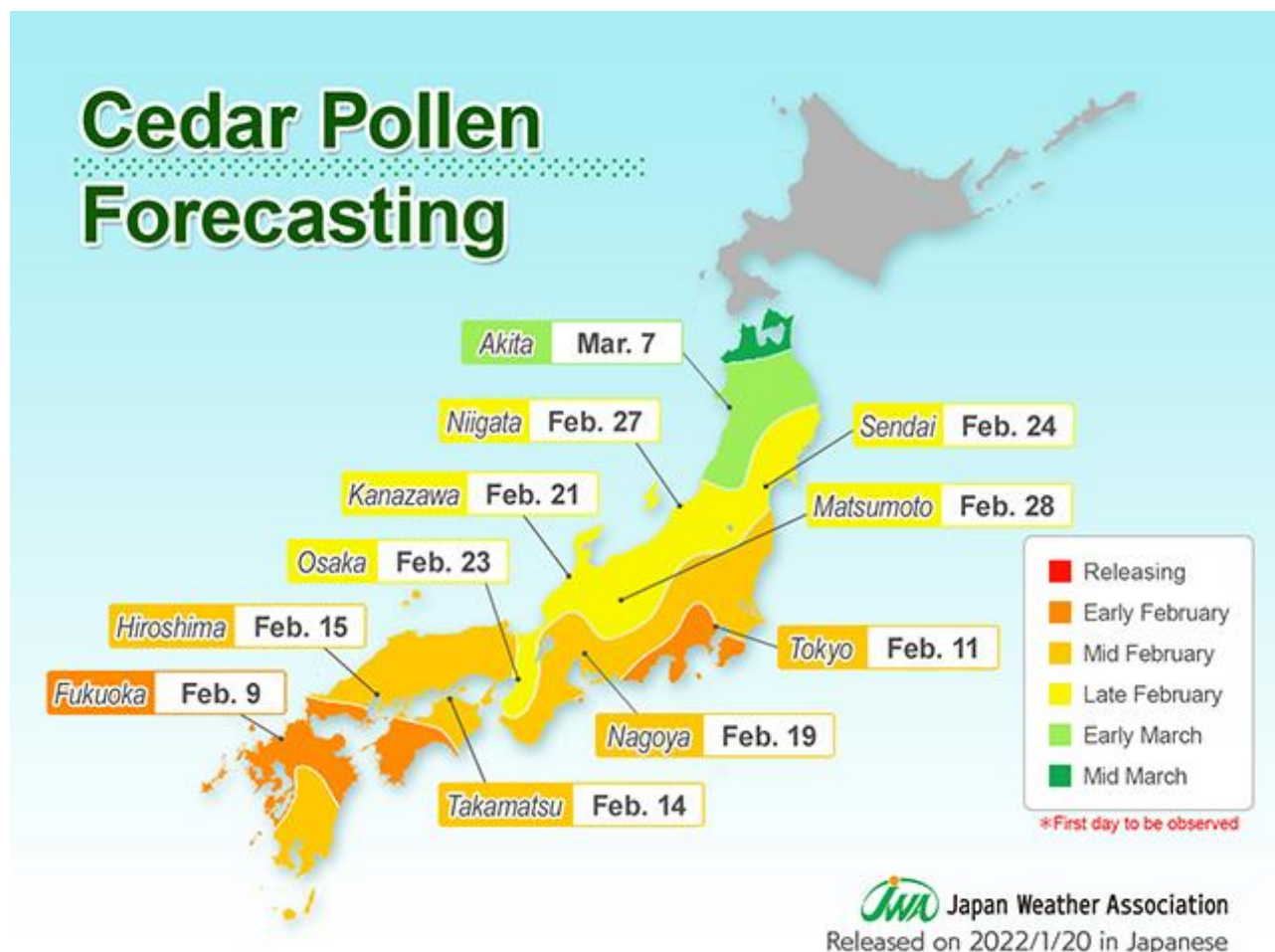


Cedar Pollen Forecast 2022, Pollen dispersal to begin in early February

Japan Weather Association (JWA) released the Spring Pollen Forecasting in Japan on January 20, 2022.

1. Start of Cedar Pollen Dispersal

This year, cedar pollen season is expected to start in early February in Kyusyu, Shikoku, Chugoku, Tokai and parts of Kanto. Throughout February, the temperature is expected to be normal or lower than average year in many areas of the country, so the beginning of cedar pollen spread is expected to be usual in each region. A small amount of cedar pollen begins to be released even before it is recognized as the start of its dispersal. In areas where the pollen season will begin in early February, it is advisable to start taking measures against pollen as early as January.



* The first day when one or more than one cedar pollen per square centimeter is observed for two consecutive days.

2. Peak Forecast for Each Area

The peak of cedar pollen release is forecasted from late February to early March in Fukuoka and Takamatsu, and early to mid-March in Hiroshima, Osaka, and Nagoya. It will be from early to late March in Kanazawa, Tokyo, and Sendai. JWA estimates the cedar peak season will be about the same as usual in most places.



After the peak of cedar pollen ends, cypress pollen dispersal will start and then the peak will begin. The peak period is expected to be from late March to early April in Fukuoka and Takamatsu, and early April in Hiroshima. In Osaka, Nagoya, and Tokyo, cypress pollen will peak in early to mid-April. JWA estimates the cypress peak season will be about the same as usual. In Kanazawa and Sendai, cypress pollen will be released mainly in April, but compared to other areas the amount is smaller, so it is not expected to have a clear peak.

3. 2022 Season Tendency

In this season, the forecast for pollen dispersion is expected to be the same as usual in Kyushu, Hokuriku, Kanto Koshin, and Tohoku, and less than usual in Shikoku, Chugoku, Kinki, and Tokai. On the other hand, Hokkaido will have much more pollen than usual**.

Compared to the previous season, there are large regional differences in Kyushu and Tohoku, and the amount of releasing in Shikoku, Chugoku, and Kinki is expected to be small. However, Tokai, Hokuriku, Kanto Koshin, and Hokkaido will have more than the previous season. Some areas in Kyushu, Hokuriku, Tohoku and Hokkaido are expected to have very high amount.

** JWA forecasts for pollen dispersal in Hokkaido are based on Japanese white birches.

Region	Amount of Releasing			
	Comparison of Average Year	Regional Average (%)	Comparison of Previous Season	Regional Average (%)
Hokkaido	very high	220%	very high	310%
Tohoku	average	100%	slightly high	110%
Kanto Koshin	average	90%	slightly high	110%
Hokuriku	average	90%	high	170%
Tokai	slightly less	80%	slightly high	130%
Kinki	slightly less	70%	slightly less	70%
Chugoku	slightly less	70%	slightly less	80%
Shikoku	less	60%	slightly less	70%
Kyushu	average	90%	same	100%

[Explanation of the terms about the amount of releasing]

- Very high : 200% or more of the previous season/average year
- High : 150% or more but less than 200% of the previous season/average year
- Slightly high : 110% or more but less than 150% of the previous season/average year
- Average : 90% or more but less than 110% of the previous season/average year
- Slightly less : 70% or more but less than 90% of the previous season/average year
- Less : 50% or more but less than 70% of the previous season/average year
- Very less : less than 50% of the previous season/average year



Previous season : Amount released in the 2021 season
Average year : Average of the past 10 years (2012-2021)

* PLEASE REFRAIN FROM USING THIS INFORMATION FOR CORPORATE PURPOSES WITHOUT PERMISSION (QUOTATION IN PRESS RELEASES OR USE FOR PROMOTIONAL PURPOSES).

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