

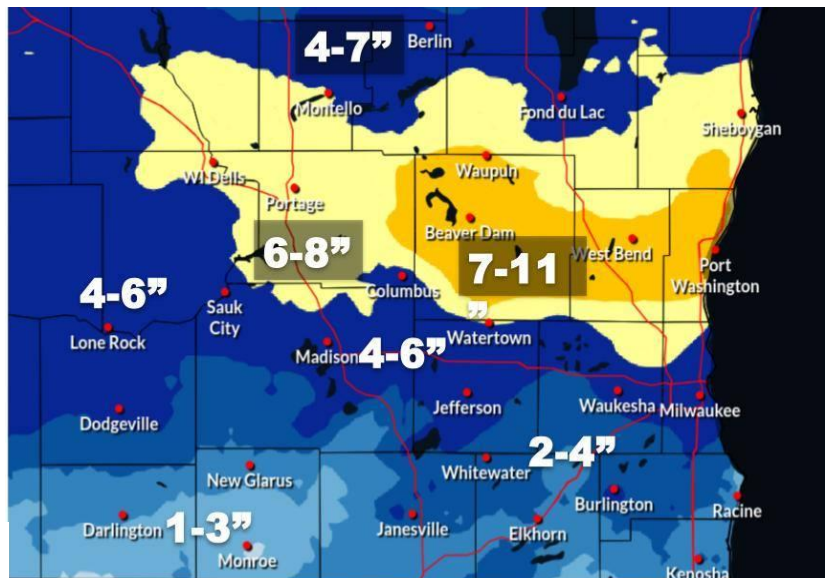


Alberta Clipper & Accumulating Snow

Morning Through Evening Of December 19, 2024

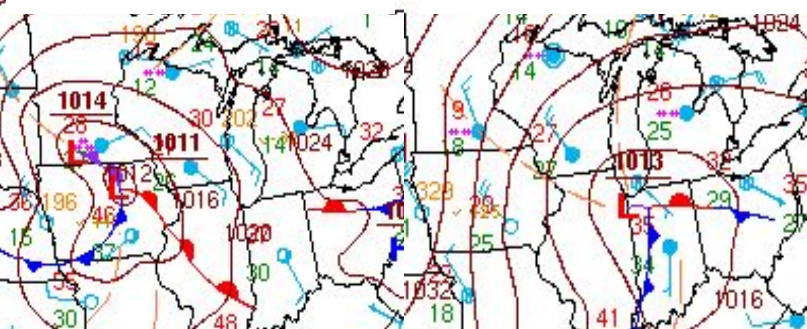
Event Overview: An Alberta Clipper tracked across the region throughout the day on December 19, 2024, bringing a fresh coating of pre-Christmas snow to southern Wisconsin. Falling over a relatively long duration of 12-24 hours, said snow brought generally 2-6 inches of accumulation. The exception was over east-central Wisconsin, where a narrow but heavy band of snow set up during the late afternoon & early evening hours. Locally higher totals in the 7-11 inch range occurred over portions of Columbia, Dodge, Washington, and Ozaukee Counties as a result.

Total Snow Accumulations



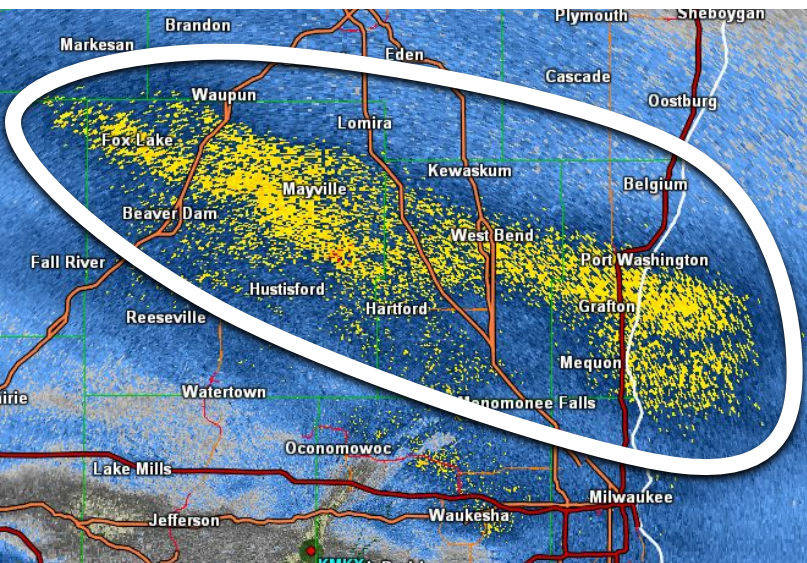
3:00 PM 12/19

3:00 AM 12/20

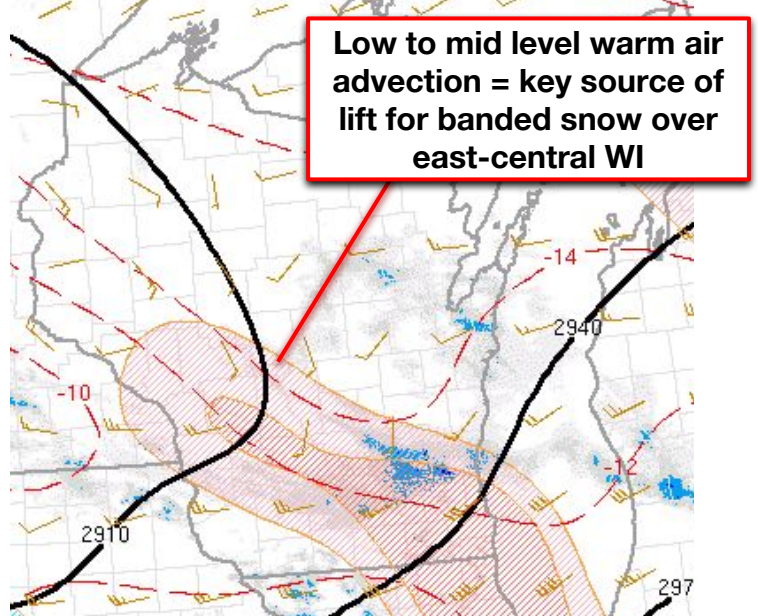


WPC surface analyses at 3:00 PM 12/19 & 3:00 AM 12/20

4:30 PM 12/19 Radar



4:30 PM radar showing a narrow band of moderate to heavy snow over Dodge, Washington, and Ozaukee Counties



Event Setup: Periods of snow fell throughout the day thanks to increasing middle & upper level lift ahead of an approaching Alberta Clipper. The Clipper system was accompanied by an area of surface low pressure, which progressed from Iowa to the Chicago metro during the evening. Low to mid level warm air advection occurring to the northeast of the low allowed a narrow but heavy band of snow to form over east-central WI, resulting in 1"/hour snowfall rates & higher accumulations.

