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MHFD Message Summary – Saturday, May 24, 2025

MHFD Products Issued

Counties	M 1	Valid	M 2	Valid	M 3	Valid	LIF	Issued
Adams	X	2:00PM – 9:00PM					X	3:03PM – 5:00PM
Arapahoe	X	2:00PM – 9:00PM					X	2:57PM – 5:00PM
Aurora	X	2:00PM – 9:00PM						
Boulder	X	2:00PM – 9:00PM						
Broomfield	X	2:00PM – 9:00PM						
Denver	X	2:00PM – 9:00PM						
DIA	X	2:00PM – 9:00PM						
Douglas	X	2:00PM – 9:00PM						
Jefferson	X	2:00PM – 9:00PM						
Arvada	X	2:00PM – 9:00PM						
Lakewood	X	2:00PM – 9:00PM						
Wheat Ridge	X	2:00PM – 9:00PM						

MHFD Product Summary

HPO issued at 939 with MODERATE Message potential for the entire District
M1 was issued at 1357 for the entire District
IMS issued at 1411
M1 LIF issued at 1457 for Arapahoe County
M1 LIF issued at 1503 for Adams County
IMS issued at 2026 letting Messages expire at 2100

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Meteorological Summary

A cool and foggy start the morning Saturday as a few overnight showers impacted the District. High temperatures would only reach the low to mid 60s for areas west of I-25 with mid 60s to around 70°F for areas east of I-25. These cooler temperatures would help limit storm production in most areas in the District with stronger storm development for areas out east and just south and into central Douglas County.

Good upper-level dynamics would play a significant role in the amount and intensity of storms as a low-pressure trough slowly moved over the Colorado region. This would lead to strong west to southwesterly flow aloft, creating the potential for strong to severe storms. These strong to severe storms would contain large hail, up to 1.5”, gusty winds and frequent cloud to ground lightning.

Most if not all strong to severe storms would be delegated to areas along the Palmer Divide, where more persistent upslope surface flow would continue to trigger multiple rounds of storms. Initially, storms would develop around midday, increasing in strength rapidly into the afternoon, with persistent strong to severe storms into the evening hours.

By 2pm, a couple of these stronger storms would move into eastern portions of the District, formed along an outflow boundary from the south. These storms would produce moderate to brief heavy rain with 0.65” recorded around the Watkins area in 10-30 minutes. This cell would only impact far eastern portions of the District from Watkins to Bennet and slightly north into Adams County.

As these storms slowly meandered north/northeastward and out of the District only a few additional showers and thunderstorms would impact portions of the District. These additional showers would remain light to moderate into the evening with no additional heavy rain within the District boundary. This was not generally the case for areas south of the District where waves of showers/thunderstorms would persist well after sundown.

Showers would continue late into the evening and off and on overnight. Areas of fog would also move into the District resulting in a wet, cool and cloudy start to Sunday.

Moisture Variables

Sounding	PW (Precipitable H20)	Dew Points (Degree F)	Comments
12z	0.75”-0.80” (Est)	Upper 40s to Low 50s	0.80” NAM model derived PW
18z	0.80”-0.85” (Est)	Low to Mid 50s	0.83” NAM model derived PW
0z	0.80”-0.90” (Est)	Low to Mid 50s	0.85” NAM model derived PW

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Max Precipitation Reported 5/25/2025

If less than 0.4", NOT reported/Note: ALERT totals are 24-hr totals for 5/24, CoCoRAHS is from~7am (5/24)-~7am (5/25)

Location	ALERT	CoCoRaHS	NWS	Comments
Adams				
Arapahoe	0.65" 10225000 North Watkins LWX			
Aurora				
Boulder				
FMBA				
Broomfield				
Denver				
DIA				
Douglas	0.79" 2950 Public Works			
Jefferson				
Arvada				
Lakewood				
Wheat Ridge				

NWS Products

The National Weather Service issued a Severe Thunderstorm Watch for Arapahoe and Douglas Counties from 4:30 PM MST, effective until 8:00 PM MST.

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Images

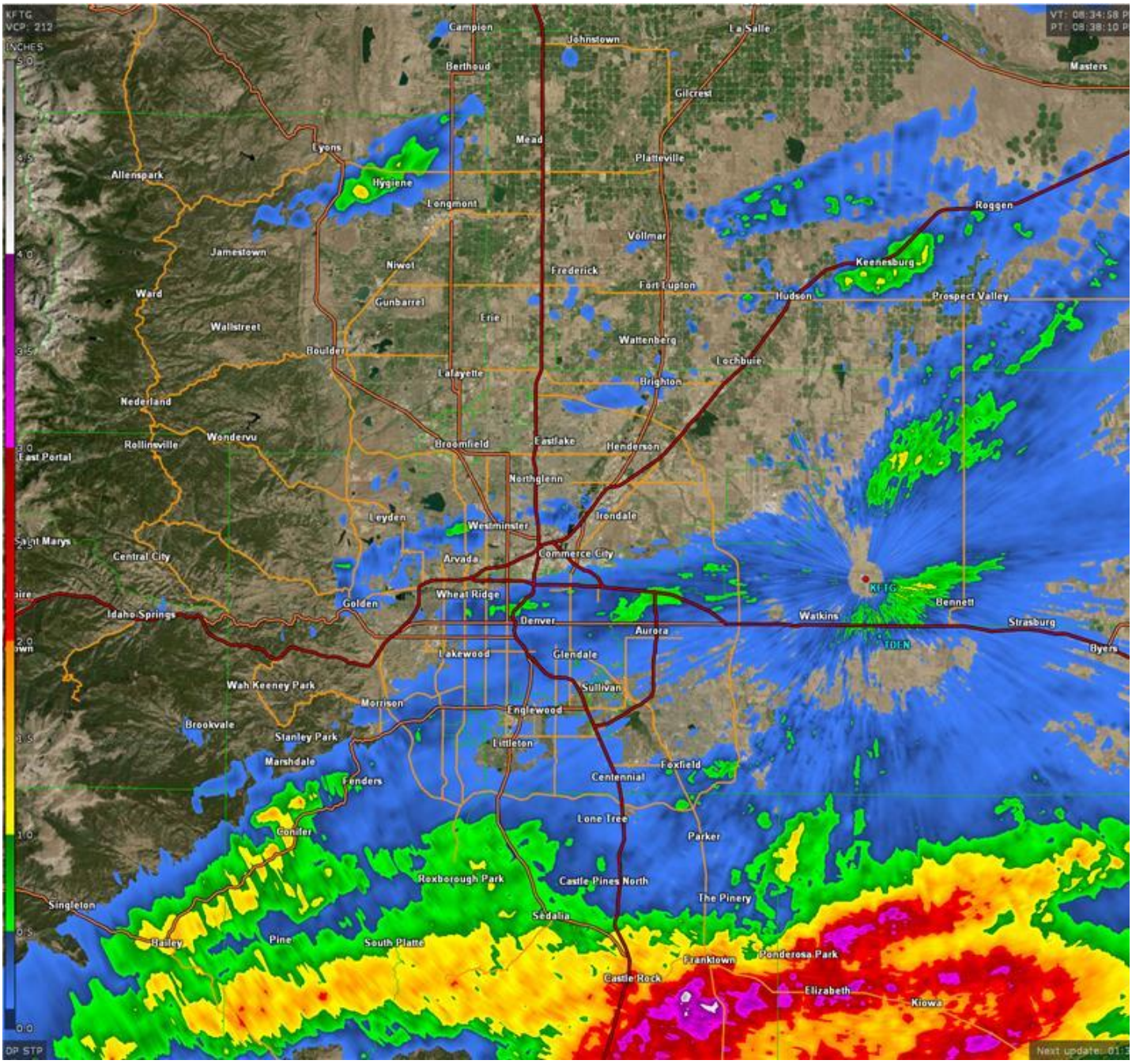


Fig 1: Storm Total Precipitation GR Level KDEN at 8:34 PM MST, 05/25/2025

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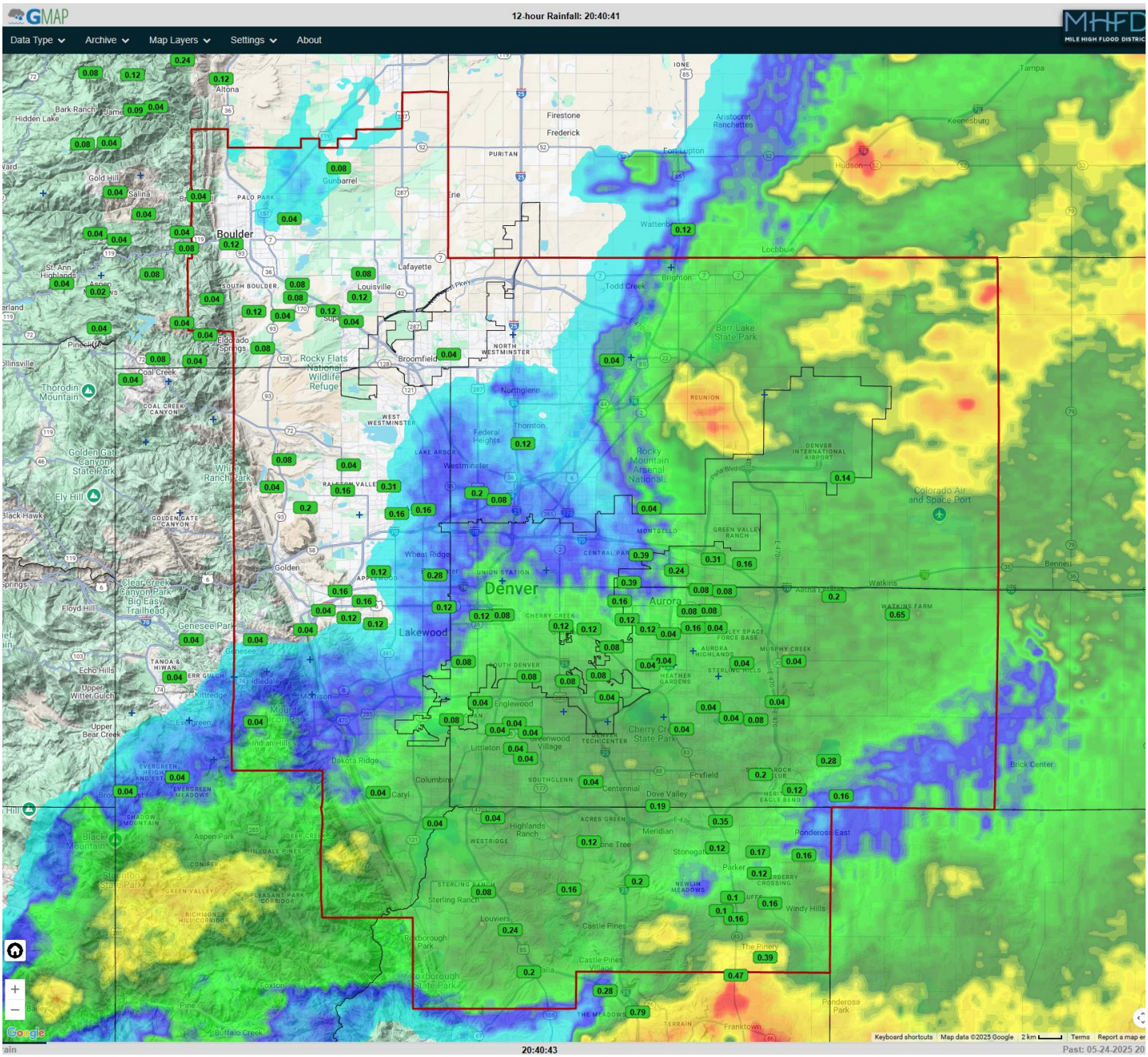


Fig 2: MHFD 12-Hour Rainfall Totals at 8:40 PM MST, 05/25/2025

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