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MHFD Message Summary – Monday September 29, 2025

MHFD Products Issued

Counties	M 1	Valid	M 2	Valid	M 3	Valid	LIF	Issued
Adams	X	2:43pm – 10:00pm					X	4:28pm – 6:30pm
Arapahoe	X	2:43pm – 10:00pm						
Aurora	X	2:43pm – 10:00pm						
Boulder	X	2:43pm – 10:00pm						
Broomfield	X	2:43pm – 10:00pm						
Denver	X	2:43pm – 10:00pm						
DIA	X	2:43pm – 10:00pm						
Douglas	X	2:43pm – 10:00pm					X	4:02pm – 6:00pm
Jefferson	X	2:43pm – 10:00pm						
Arvada	X	2:43pm – 10:00pm						
Lakewood	X	2:43pm – 10:00pm						
Wheat Ridge	X	2:43pm – 10:00pm						

MHFD Product Summary

HPO issued at 900 with a NONE for Message potential for the entire District
HPO issued at 1332 with a LOW Message potential for the entire District
M1 issued at 1443, effective until 2200
IMS issued at 1458
M1 LIF issued at 1602 for Douglas County, effective until 1800
StormTrack #1 issued at 1610
M1 LIF issued at 1628 for Adams County, east of HWY 85, effective until 1830
IMS issued at 2047 letting Messages expire at 2200

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Meteorological Summary

After nearly a month without issuing Messages, a perfect storm of ingredients would come together on Monday, September 29th, with widespread showers and thunderstorms providing isolated areas with moderate to heavy rainfall in the afternoon to early evening.

Temperatures on this day would be in the upper 70s under mostly sunny skies, providing ample daytime heating for much of the District. Initial model runs would show scattered thunderstorms forming on the higher elevation foothills in the early afternoon, moving into the District by the early evening. Dew points were expected to mix out into the upper 30s by the afternoon; however, dew points remained in the mid to upper 40s by the time storms reached the District. Elevated dew points combined with a gust front would prompt stronger storms to develop in the District by mid-afternoon.

Thunderstorms initiated on the higher elevations as expected by around 1-2pm. Storms initially hugged the foothills, exhibiting thunderstorm training and slow storm motions at around 5-10mph. Training combined with slow storm motions would provide increased point rainfall amounts, with some areas seeing over 1.0” in an hour west of the District. As these storms progressed, they would slowly push east toward the District, prompting the issuing of Messages. As this line of storms pushed further off the foothills, a gust front would move east into the District, igniting multiple strong, pulse-like thunderstorms.

This gust front would continue east, providing brief moderate to heavy rainfall in both Douglas and Adams Counties, providing a quick 0.50” in 10-20 minutes in multiple areas. As the front continued east, storms would continue to weaken into the evening, with most storms moving out of the District around 7pm. Isolated showers would dissipate shortly after sunset, with clearing skies overnight and into Tuesday.

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Moisture Variables

Sounding	PW (Precipitable H20)	Dew Points (Degree F)	Comments
12z	0.65”-0.75” (Est)	Low to Mid 40s	0.72” NAM model derived PW
18z	0.70”-0.80” (Est)	Mid to Upper 40s	0.77” NAM model derived PW
0z	0.80”-0.90” (Est)	Upper 40s to Low 50s	0.87” NAM model derived PW

Max Precipitation Reported 9/29/2025

If less than 0.4”, NOT reported/Note: ALERT totals are 24-hr totals for 9/29, CoCoRaHS is from~7am (9/29)-~7am (9/30)

Location	ALERT	CoCoRaHS	NWS	Comments
Adams		0.50” CO-AD-267		Watkins 1.4 NNE
Arapahoe	0.55” 720 – WTG / Confluence Pond	0.62” CO-AR-412		Aurora 3.3 SE
Aurora	0.55” 720 – WTG / Confluence Pond	0.62” CO-AR-412		Aurora 3.3 SE
Boulder	1.92” – 6601 Magnolia Wx – Don Van Wie – ALERT 2	1.46” CO-BO-233		Nederland 4.2 E
Broomfield				
Denver				
DIA				
Douglas	0.67” 3090 – Big Dry Creek at Heritage Regional Park	0.59” CO-DG-331		Highlands Ranch 2.7 SE
Jefferson	0.59” 2360 – Indian Hills	0.89” CO-JF-331		Golden 12.5 NW
Arvada		0.51” CO-JF-598		Arvada 2.2 SSW
Lakewood				
Wheat Ridge		0.60” CO-JF-499		Wheat Ridge 1.2 ENE

NWS Products

The National Weather Service did not issue any products during this event.

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Images

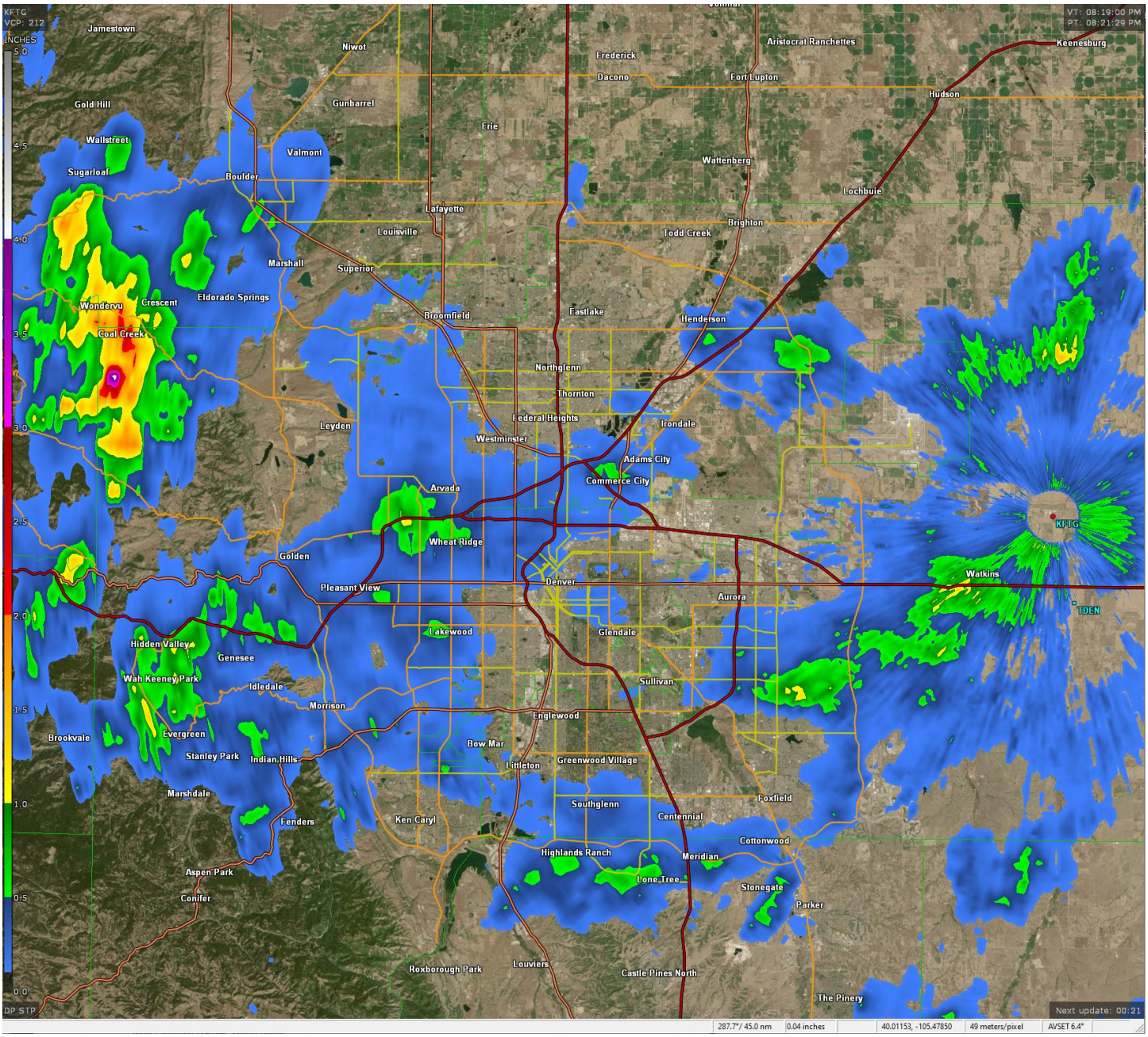


Fig 1: Storm Total Precipitation GR Level KDEN at 8:19 PM MST, 09/29/2025

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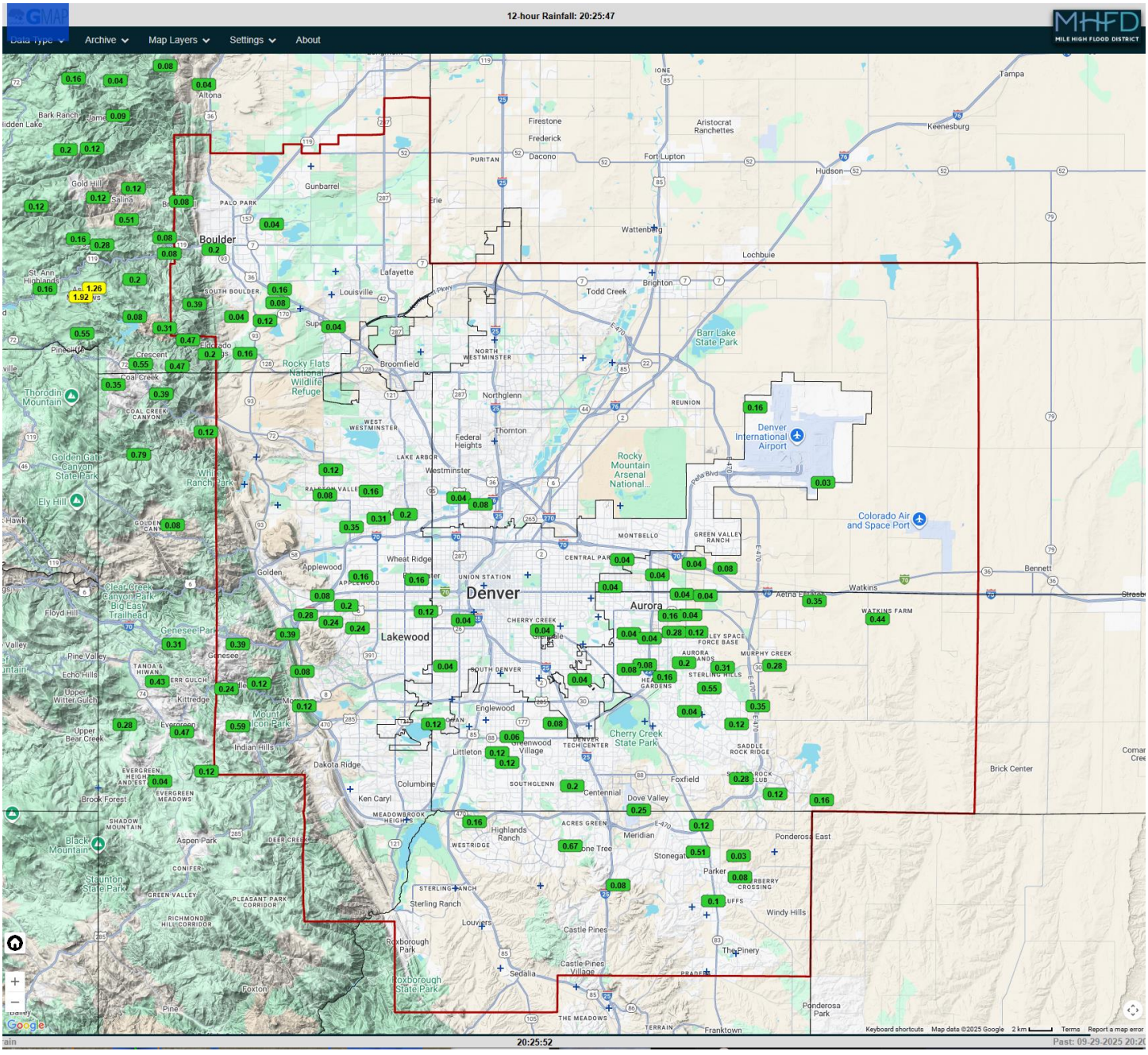


Fig 2: MHFD 12-Hour Rainfall Totals at 8:25 PM MST, 09/29/2025

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Urban Drainage and Flood Control District
ALERT Web Server

RAINFALL RATE ALARMS

Rainfall rate alarm	0.50 inches in 10 minutes	3090	Big Dry Creek at Heritage Regional Park	09/29/2025 16:06:25
Rainfall rate alarm	1.00 inch in 1 hour	4080	Twin Sisters	09/29/2025 13:30:59
Rainfall rate alarm	0.75 inches in 1 hour	4080	Twin Sisters	09/29/2025 13:24:59
Rainfall rate alarm	0.50 inches in 30 minutes	4080	Twin Sisters	09/29/2025 13:04:59

Fig 3: MHFD Alarms for 09/29/2025

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