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MHFD Message Summary – Sunday May 25, 2025

MHFD Products Issued

Counties	M 1		Valid	M 2	Valid	M 3	Valid	LIF	Issued
Adams	X	1:00 PM – 10:00 PM						X	3:03 PM – 5:30 PM
Arapahoe	X	1:00 PM – 10:00 PM						X	2:45 PM – 7:00 PM
Aurora	X	1:00 PM – 10:00 PM						X	2:45 PM – 7:00 PM
Boulder	X	1:00 PM – 10:00 PM							
Broomfield	X	1:00 PM – 10:00 PM							
Denver	X	1:00 PM – 10:00 PM						X	2:45 PM – 5:30 PM
DIA	X	1:00 PM – 10:00 PM							
Douglas	X	1:00 PM – 10:00 PM						X	4:43 PM – 6:00 PM
Jefferson	X	1:00 PM – 10:00 PM						X	2:15 PM – 4:00 PM
Arvada	X	1:00 PM – 10:00 PM						X	2:15 PM – 4:00 PM
Lakewood	X	1:00 PM – 10:00 PM						X	2:15 PM – 4:00 PM
Wheat Ridge	X	1:00 PM – 10:00 PM						X	2:15 PM – 4:00 PM

MHFD Product Summary

HPO issued at 924 with HIGH Message potential
M1 was issued at 1200 for the entire District
IMS issued at 1218
StormTrack #1 Issued at 1414
M1 LIF issued at 1415 for Jefferson County, including: Arvada, Wheat Ridge, Lakewood, effective until 1600
M1 LIF issued at 1445 for Denver County, Arapahoe County, including: City of Aurora, effective until 1730
M1 LIF issued at 1503 for Adams County, effective until 1730
StormTrack #2 issued at 1516
M1 LIF issued at 1643 for Douglas County, effective until 1800
M1 LIF extended at 1722 for Arapahoe County, including: City of Aurora, effective until 1900
IMS issued at 1808 keeping Messages valid, effective until 2200
M1 LIF issued at 1932 for Douglas County
IMS issued 2124 letting Messages expire at 2200

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Meteorological Summary

A rather peculiar day across the Denver Metro as high temperatures only reached the upper 50s to around 60°F and the District experienced the heaviest rainfall of the season thus far. This was in part due to excess surface moisture, with dew points well in the 50s for much of the day, combined with strong upper-level support. Minimal overall change from the previous day, where heavy rainfall consistently impacted areas east and south of the District. Showers and thunderstorms would favor areas north, essentially in the heart of the Denver Metro, especially areas around Aurora where the majority of rain fell during this event.

Storms would initiate along the higher terrain and move onto the foothills by midday. This initial round of showers would send a gust front into Jefferson County, creating a rapidly developing line of showers and thunderstorms. This line of storms would produce a quick 0.50”-1.00” of rainfall for areas along the I70 corridor leading into the mountains. As this storm dissipated, another gust would move eastward into Denver and Arapahoe Counties, exploding in strength with rainfall rates over 0.50” in 10 minutes. Minimal hail due to overall cool temperatures, combined with high dew points would result in very efficient rain producing storms, well into the afternoon.

As the first round of storms waned across the District, several additional storms would develop and move into the Denver Metro area in waves. Most showers would be able to produce moderate to heavy rain through the rest of the afternoon and well into the evening. Several areas across the District received well over 1.00” of total rainfall with a large area around Aurora where 2.00” - 3.00” of rain would fall. The rainfall in the Aurora and Arapahoe County area would be so persistent that the LOW IMPACT FOODING would need to be extended an additional 1.5 hours, ending at 7:00pm.

By sundown the strength of storms would diminish with only on and off shower activity into the evening and overnight. A plethora of moisture in place would result in foggy conditions leading into Memorial Day with another round of storms in store for the District.

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Moisture Variables

Sounding	PW (Precipitable H20)	Dew Points (Degree F)	Comments
12z	0.70”-0.75” (Est)	Mid to upper 50	0.73” NAM model derived PW
18z	0.75”-0.80” (Est)	Low to Mid 50s	0.77” NAM model derived PW
0z	0.75”-0.80” (Est)	Upper 40s to Low 50s	0.79” NAM model derived PW

Max Precipitation Reported 5/26/2025

If less than 0.4”, NOT reported/Note: ALERT totals are 24-hr totals for 5/25, CoCoRAHS is from~7am (5/25)-~7am (5/26)

Location	ALERT	CoCoRaHS	NWS	Comments
Adams	1.85” 850 – F J Truck Plaza	1.97” CO-AD-170		Aurora 4.5 NW
Arapahoe	1.93” - Englewood Dam	2.43” CO-AR-426		Centennial 4.5 W
Aurora	2.64” 760 – Mission Viejo	2.95” CO-AR-412		Aurora 3.3 SE
Boulder	0.71” 1110 - Gunbarrel	0.82” CO-BO-67	0.46” Boulder	Boulder 4.7 E
Broomfield	0.43” 3207 – Broom. Basin	0.58” CO-B0-2		Broomfield 1.2 NE
Denver	1.50” - Kelly Dam	1.67” CO-DN-77		Denver 3.2 SSE
DIA	1.29” 9992000 – ASOS - DIA		1.39” DIA	
Douglas	1.97” 2860 – Cherry Creek	2.01” CO-DG-207	1.00” Castle Rock	Highands Ranch 0.7 ESE
Jefferson	1.30” 1350 – Chatfield Dam	1.22” CO-JF-332		Littleton 5.7 SW
Arvada	0.67” 210 – Leyden Conf.	0.79” CO-JF-555		Arvada 0.7 NNE
Lakewood	0.51” 1550 – Lakewood CC	0.50” CO-JF-340		Lakewood 1.5 WSW
Wheat Ridge	0.59” 1440 – Upper Sloan Det	0.98” CO-JF-354		Wheat Ridge 0.6 S

NWS Products

The National Weather Service issued a Flood Advisory for Arapahoe County, including Aurora at 5:23 PM MST effective until 7:00 PM MST.

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Images

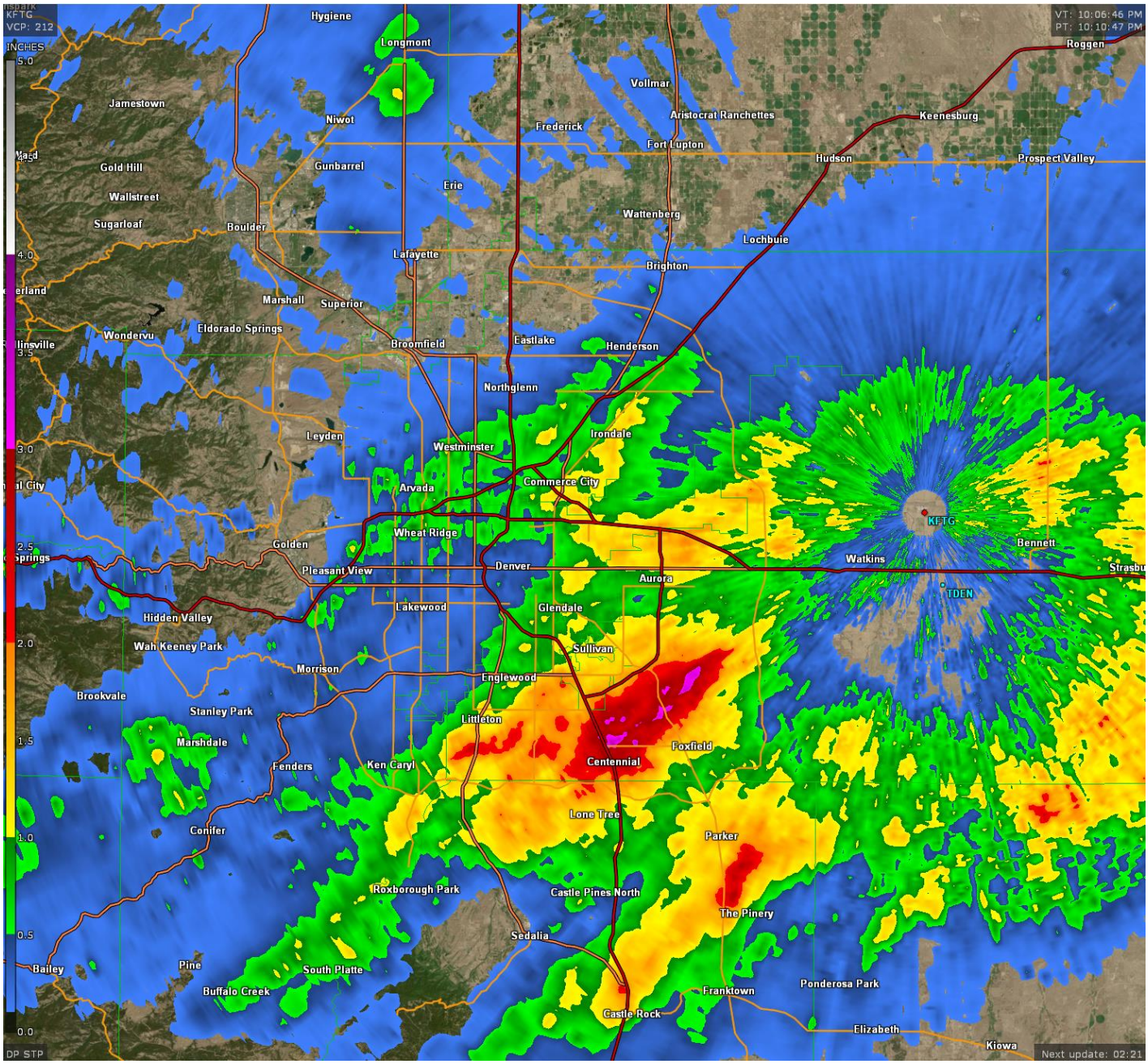


Fig 1: Storm Total Precipitation GR Level KFTG at 10:06 PM MST, 05/25/2025

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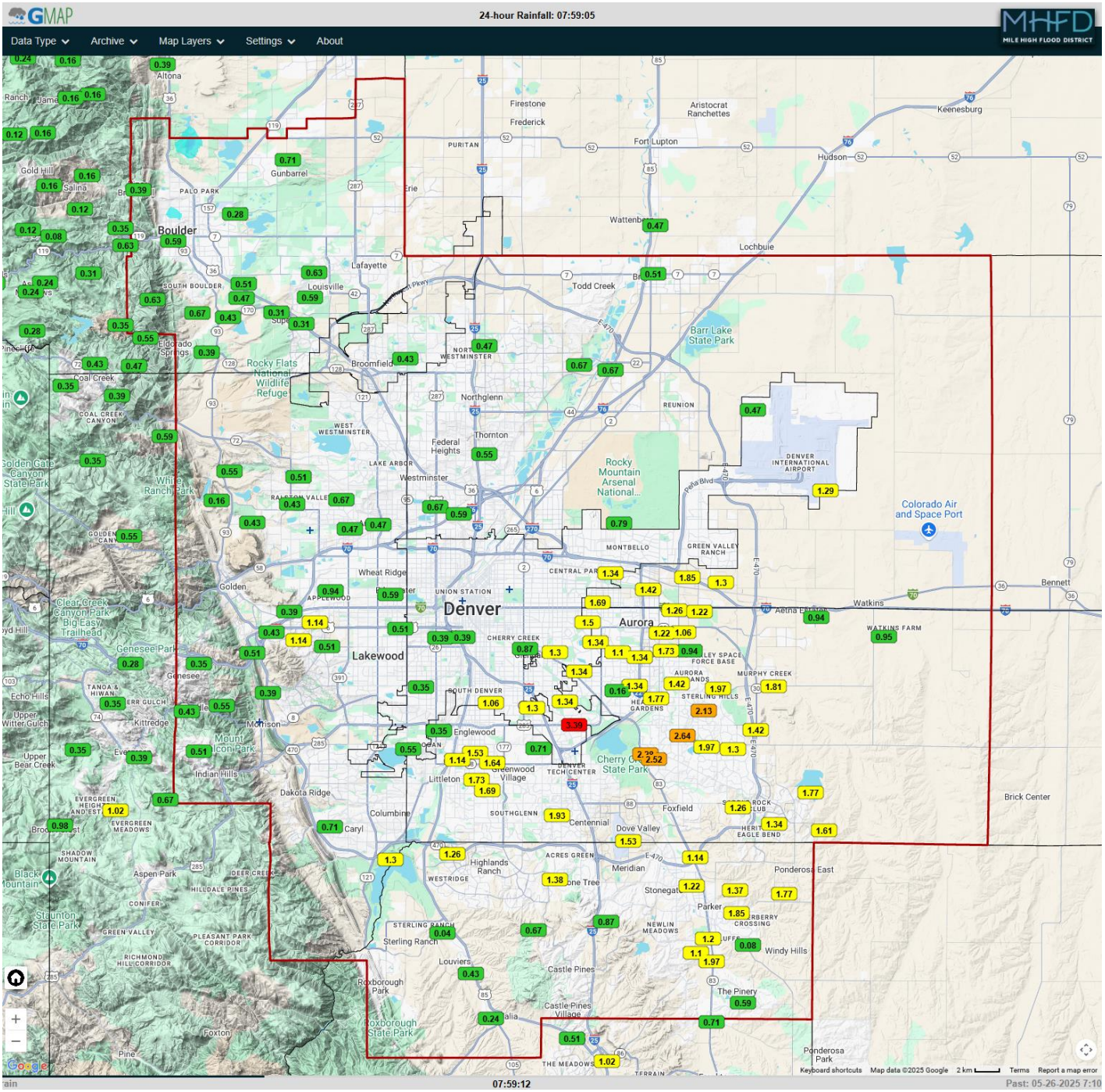


Fig 2: MHFD 24-Hour Rainfall Totals at 7:59 AM MST, 05/26/2025

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Urban Drainage and Flood Control District
ALERT Web Server

RAINFALL RATE ALARMS

Rainfall rate alarm	1.00 inch in 1 hour	2860	Cherry Creek at Stroh	05/25/2025 19:39:20
Rainfall rate alarm	0.50 inches in 30 minutes	2860	Cherry Creek at Stroh	05/25/2025 19:23:20
Rainfall rate alarm	1.00 inch in 1 hour	750	Quincy Reservoir	05/25/2025 17:04:25
Rainfall rate alarm	0.50 inches in 30 minutes	2870	Cherry Creek at Cottonwood Park	05/25/2025 17:00:40
Rainfall rate alarm	1.00 inch in 1 hour	1710	Shop Creek	05/25/2025 16:57:50
Rainfall rate alarm	1.00 inch in 1 hour	3090	Big Dry Creek at Heritage Regional Park	05/25/2025 16:48:25
Rainfall rate alarm	1.00 inch in 1 hour	760	Mission Viejo Park	05/25/2025 16:12:45
Rainfall rate alarm	0.80 inches in 1 hour	440	Aurora Fire Station No7	05/25/2025 16:08:26
Rainfall rate alarm	0.50 inches in 10 minutes	400	Montview Park	05/25/2025 15:09:47
Rainfall rate alarm	0.30 inches in 12 hours	640	Goldsmith at Eastman	05/25/2025 15:07:50
Rainfall rate alarm	0.30 inches in 12 hours	400	Montview Park	05/25/2025 15:05:46
Rainfall rate alarm	0.50 inches in 10 minutes	410	Kelly Dam	05/25/2025 15:00:46
Rainfall rate alarm	1.00 inch in 1 hour	100870	Rotolo Park	05/25/2025 14:57:05
Rainfall rate alarm	1.00 inch in 1 hour	100870	Rotolo Park	05/25/2025 14:57:05
Rainfall rate alarm	0.76 inches in 1 hour	1050	Jeffco Fairgrounds	05/25/2025 14:24:45
Rainfall rate alarm	0.50 inches in 10 minutes	1050	Jeffco Fairgrounds	05/25/2025 14:10:46

Fig 3: MHFD Alarms During Event, 5/25/2025

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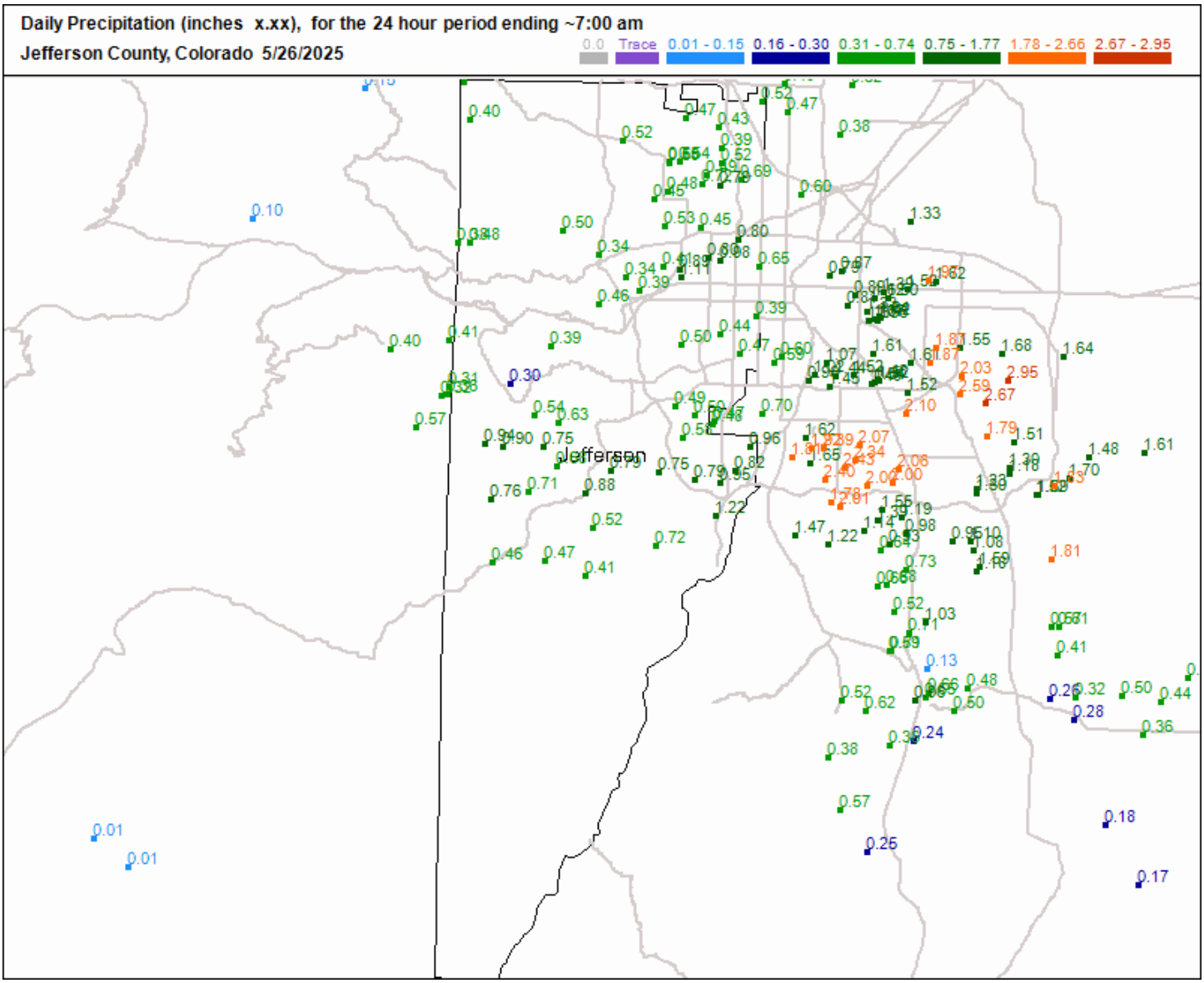


Fig 4: CoCoRaHS Daily Precipitation, 5/26/2025 for 7am 5/25/2025 through 7am 5/26/2025.

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