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MHFD Message Summary – Friday July 18, 2025

MHFD Products Issued

Counties	M 1	Valid	M 2	Valid	M 3	Valid	LIF	Issued
Adams	X	4:05pm – 9:00pm						
Arapahoe	X	4:05pm – 9:00pm						
Aurora	X	4:05pm – 9:00pm						
Boulder	X	4:05pm – 9:00pm						
Broomfield	X	4:05pm – 9:00pm						
Denver	X	4:05pm – 9:00pm						
DIA	X	4:05pm – 9:00pm						
Douglas	X	4:05pm – 9:00pm						
Jefferson	X	4:05pm – 9:00pm						
Arvada	X	4:05pm – 9:00pm						
Lakewood	X	4:05pm – 9:00pm						
Wheat Ridge	X	4:05pm – 9:00pm						

MHFD Product Summary

HPO issued at 0925 with LOW Message potential for the entire District
M1 was issued at 1605 effective until 2100
IMS issued at 1614
IMS issued at 2001 letting Messages expire at 2100

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Meteorological Summary

Another active day across the District on Friday, July 17, 2025, as a few moderate to strong storms moved through northern portions of the District. Mostly sunny skies in the morning hours would result in low 90s high temperatures in the afternoon. Relatively calm conditions throughout the day inside the District with strong storms just outside of the District to the north and southeast. These stronger storms would produce gust fronts which would end up initially colliding in the northwestern quadrant of the District.

As these gusts collided, A storm would rapidly develop in the Boulder area and would quickly start to produce moderate to isolated heavy rainfall. As this cell matured, it would slowly start to move east/northeast around 5 mph. With dew points in the low to mid 40s, this storm would only be capable of producing 0.30”-0.40” in 10-20 minutes with total in some areas up to 0.60”-0.70” over 30-40 minutes.

As this cell tapered off over Boulder, additional storms would form along the outflow boundary to the east and would essentially bow around the District to the north, just missing most areas inside the District with the heavier rainfall. The gust front would stall north of the Denver International Airport (DIA) as storms would clip the northeastern portions of District in Adams County.

Although storms were moderate to borderline strong, rainfall would not exceed the 0.5” in 10-15 minutes threshold during this event. As these storms tapered off, between 8-9pm, no additional rainfall would be observed withing the District boundaries through the rest of the evening.

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Moisture Variables

Sounding	PW (Precipitable H20)	Dew Points (Degree F)	Comments
12z	0.80”-0.90” (Est)	Upper 40s	0.83” NAM model derived PW
18z	0.70”-0.80” (Est)	Low to Mid 40s	0.74” NAM model derived PW
0z	1.10”-1.20” (Est)	Mid 50s	1.15” NAM model derived PW

Max Precipitation Reported 7/19/2025

If less than 0.4”, NOT reported/Note: ALERT totals are 24-hr totals for 7/18, CoCoRAHS is from~7am (7/18)-~7am (7/19)

Location	ALERT	CoCoRaHS	NWS	Comments
Adams				
Arapahoe				
Aurora				
Boulder	0.67” 4810 – Shanahan Ridge	0.67” CO-BO-282		Boulder 4.4 S
Broomfield				
Denver				
DIA				
Douglas				
Jefferson				
Arvada				
Lakewood				
Wheat Ridge				

NWS Products

No National Weather Service products were issued for this event.

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Images

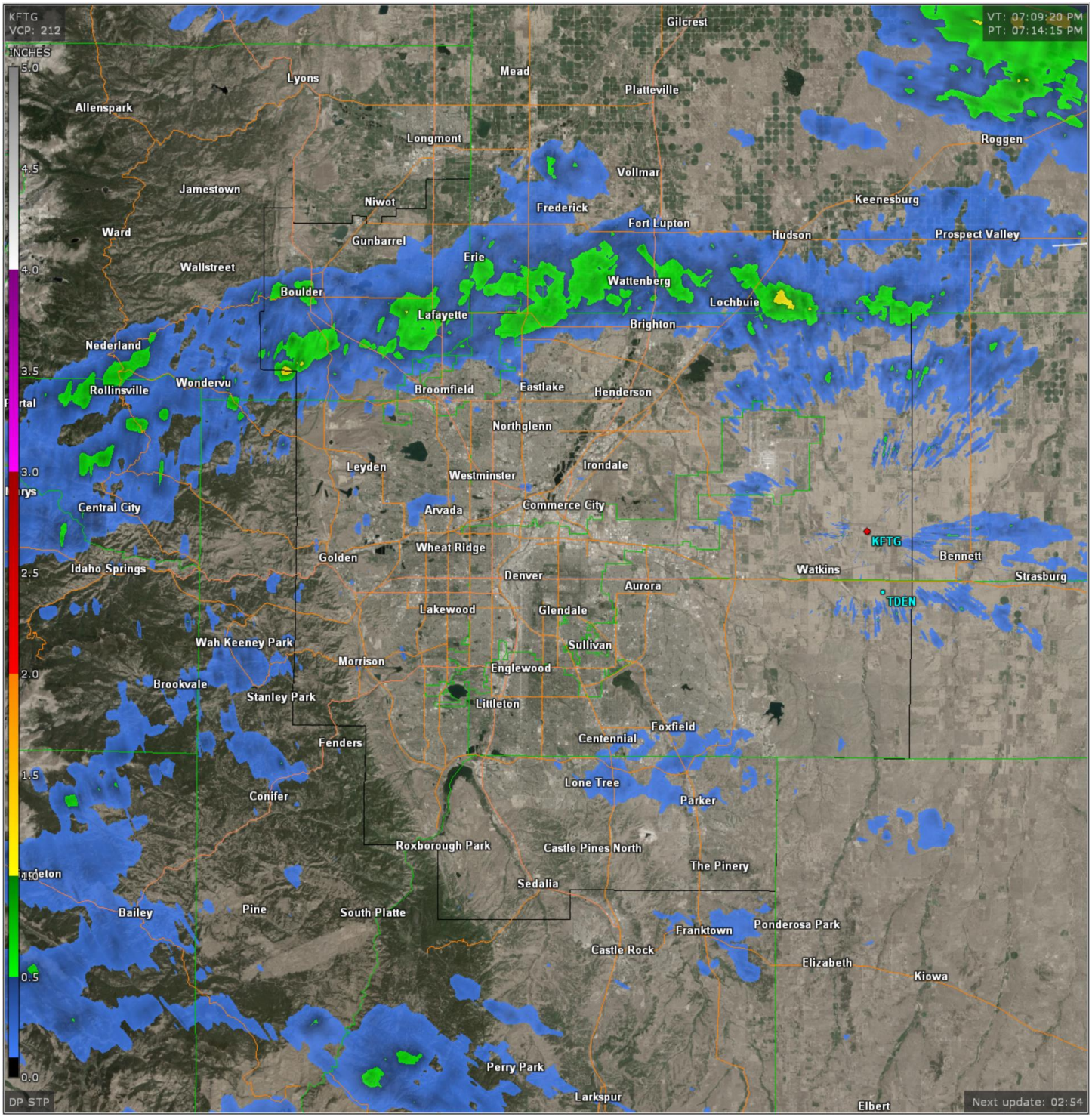


Fig 1: Storm Total Precipitation GR Level KFTG at 7:09pm MST, 07/18/2025

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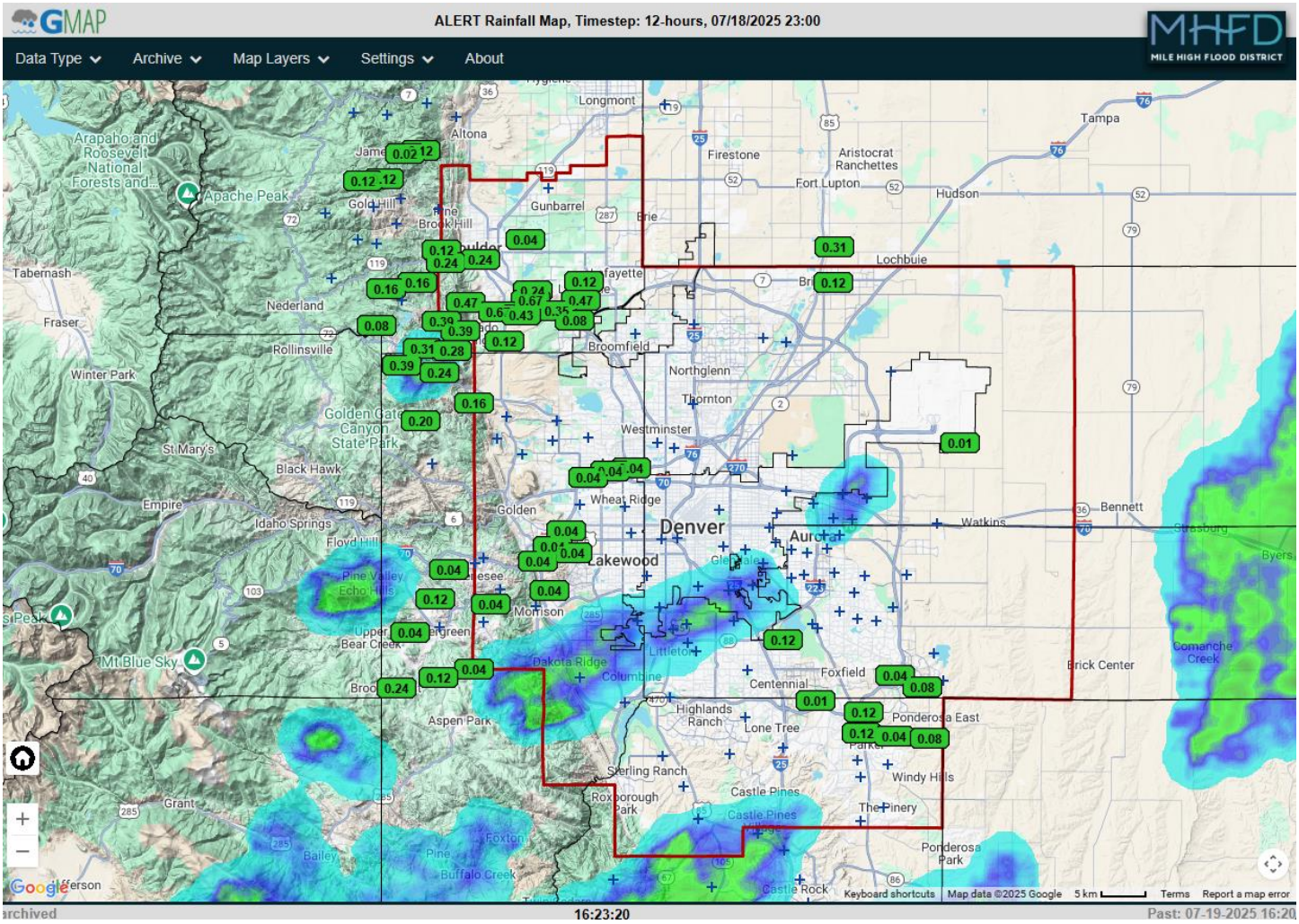


Fig 2: MHFD 12-Hour Rainfall Totals 07/18/2025 (Archived Data)

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