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MHFD Message Summary – Wednesday July 16, 2025

MHFD Products Issued

Counties	M 1	Valid	M 2	Valid	M 3	Valid	LIF	Issued
Adams	X	1:06pm – 1:15am 7/17			X	10:22pm – 1:15am 7/17	X	9:03pm – 11:00pm
Arapahoe	X	1:06pm – 1:15am 7/17					X	4:23pm – 6:30pm
Aurora	X	1:06pm – 1:15am 7/17					X	4:23pm – 6:30pm 9:28pm – 11:00pm
Boulder	X	1:06pm – 1:15am 7/17			X	10:07pm – 12:00am 7/17		
Broomfield	X	1:06pm – 1:15am 7/17			X	10:07pm – 12:00am 7/17	X	9:49pm – 11:30pm
Denver	X	1:06pm – 1:15am 7/17					X	11:14pm – 1:00am 7/17
DIA	X	1:06pm – 1:15am 7/17						
Douglas	X	1:06pm – 1:15am 7/17						
Jefferson	X	1:06pm – 1:15am 7/17			X	10:07pm – 12:00am 7/17	X	3:20pm – 5:00pm 11:29pm – 1:00am 7/17
Arvada	X	1:06pm – 1:15am 7/17					X	3:20pm – 5:00pm
Lakewood	X	1:06pm – 1:15am 7/17					X	3:20pm – 5:00pm
Wheat Ridge	X	1:06pm – 1:15am 7/17					X	3:20pm – 5:00pm

MHFD Product Summary

HPO issued at 0900 with HIGH Message potential for the plains with MODERATE for the foothills
M1 was issued at 1306 effective until 2100
IMS issued at 1332
M1 LIF issued at 1520 for Jefferson County, including the City of Arvada, Lakewood and Wheat Ridge, effective until 1700
StormTrack #1 issued 1527
M1 LIF issued at 1623 for Arapahoe County, including the City of Aurora, effective until 1830
IMS issued at 2031 to extend Message 1's effective until 0000 7/17
M1 LIF issued at 2103 for Adams County east of HWY 85, effective until 2300
M1 LIF issued at 2128 for Boulder County, including the City of Boulder, effective until 2300
M1 LIF issued at 2149 for Broomfield County, effective until 2330
StormTrack #2 issued at 2204
M3 issued at 2207 for Boulder, Jefferson, and Broomfield Counties, effective until 0000 7/17
M3 issued at 2222 for Adams County, effective until 0115 Thursday
M1 LIF issued at 2234 for Arvada, Lakewood, and Wheat Ridge, effective until 2359
M1 LIF issued at 2314 for Denver County, effective until 0100 7/17
IMS issued at 2315 to extend Message 1's, effective until 0115 7/17
M1 LIF issued at 2329 for Jefferson County, effective until 0100 7/17
IMS issued at 0014 7/17 letting Messages expire at 0115 7/17

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Meteorological Summary

After a few hot days over the Denver Metro as high-pressure dominated the region, an active pattern would emerge as this ridge broke down. On Wednesday, July 16, 2025, temperatures would struggle to increase during the morning hours as an overnight cold front would result in early morning fog/mist over portions of the District. This layer of thick cloud cover would stick around through most of the morning hours and keep dew points elevated for the District, in the upper 50s to low 60s. The lack of sun would keep temperatures in the low 70s through midday with the first round of storms initiating along the higher terrain around this time.

As storms increased over the higher terrain foothills, they would produce efficient rainfall just outside of the District, with storms inside the District struggling to take hold with strong convective inhibition in place from the cooler morning temperatures. A few isolated showers and thunderstorms would pop up around the District, mainly along the Palmer Divide and northward along the Cheyenne Ridge where more persistent sunshine helped produce stronger storms. Eventually, these storms would produce outflow boundaries, and the boundaries would meet over the District.

After the first round of storms, skies would clear a bit over the Denver Metro, bringing high temperatures into the upper 70s. This would be just enough heating, combined with colliding gust fronts from the north and south, would result in rapid storm development over western portions of the District. By 3pm, A strong storm would form in Jefferson County bringing moderate to heavy rainfall for the Morrison area. This storm would essentially rain itself out, creating another gust front that would travel eastward and into Arapahoe and Adams Counties.

Just after 4pm, additional strong storms would impact portions of Adams and Arapahoe Counties bringing moderate to heavy rain. At this time, dew points were still elevated, in the mid to upper 50s, so any showers would bring moderate to heavy rainfall across the District. As these storms dissipated, a rather long lull in storm development would occur for the District.

Skies would generally clear out through the evening and past sundown over the District. However, strong to severe storms would once again form to the north, south and out on the eastern plains. These storms would create another round of gust fronts that would end up moving back into the District and colliding over northern areas, mainly around the Boulder area. This Boulder storm would rapidly develop and would quickly produce moderate to heavy rainfall for south/southeastern portions of the County.

This storm would continue to form additional showers/thunderstorms south and into Broomfield and Jefferson Counties. As this storm increased, it would not only alarm at 0.5” in 10 minutes, but it would also trigger a 1.0” in under one hour alarm for Boulder County. This would result in a Flash Flood Warning to be issued by the National Weather Service. Typically for this type of rainfall, a Flood Advisory would have been issued rather than a Flash Flood Warning.

As this storm slowly progressed southward along additional outflow boundaries, it would meander into Jefferson and Denver Counties after 11pm. This would be the area this storm would make its last stand, slowly raining itself out south of downtown Denver with only a few scattered showers for the southern portion of the District as these showers tapered off.

Another storm would develop east of DIA between 10pm and last until midnight, resulting in another Flash Flood Warning for the farthest northeast portion of the District. After midnight, most if not all rainfall would have moved eastward and out of the District with no additional rainfall. Areas of patchy fog/mist would move in overnight and into daybreak Thursday, July 17, 2025.

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Moisture Variables

Sounding	PW (Precipitable H20)	Dew Points (Degree F)	Comments
12z	0.95”-1.05” (Est)	Mid 50s	1.15” NAM model derived PW
18z	0.90”-1.00” (Est)	Upper 50s	0.97” NAM model derived PW
0z	0.85”-0.95” (Est)	Mid to Upper 50s	0.92” NAM model derived PW

Max Precipitation Reported 7/17/2025

If less than 0.4”, NOT reported/Note: ALERT totals are 24-hr totals for 7/16, CoCoRAHS is from~7am (7/16)-~7am (7/17)

Location	ALERT	CoCoRaHS	NWS	Comments
Adams	0.87” 1300 – Hidden Lake	0.53” CO-AD-153		Westminster 1.6 NE
Arapahoe	0.51” 950 – Piney at Liverpool	0.57” CO-AR-225		Aurora 12.4 SSE
Aurora	0.51” 950 – Piney at Liverpool			
Boulder	1.26” 1100 – Louisville Dwy D	1.24” CO-BO-538		Boulder 3.1 NE
Broomfield	0.55” 1200 – Broomfield Basin	0.94” CO-BR-55		Superior 2.8 S
Denver	0.43” 1340 – Sanderson at Xavier	0.67” CO-DN-259		Denver 4.3 WNW
DIA				
Douglas				
Jefferson	1.34” 2330 – Bear Creek	1.80” CO-JF-598		Arvada 2.2 SSW
Arvada	1.34” 100 – Carr Street	1.80” CO-JF-598		Arvada 2.2 SSW
Lakewood	0.98” 1550 – Lakewood CC	1.15” CO-JF-340		Lakewood 1.5 WSW
Wheat Ridge	0.67” 1400 – Upper Sloan Det.	1.45” CO-JF-585	1.25” Wheat Ridge	Wheat Ridge 2.5 ESE

NWS Products

A Flash Flood Warning was issued by the National Weather Service for northeastern Jefferson County, Southeast Boulder County and Southwestern Broomfield County at 10:02pm effective until 12:00am, July 17. A Flash Flood Warning was issued for north central Adams County at 10:19pm effective until 1:15am, July 17.

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Images

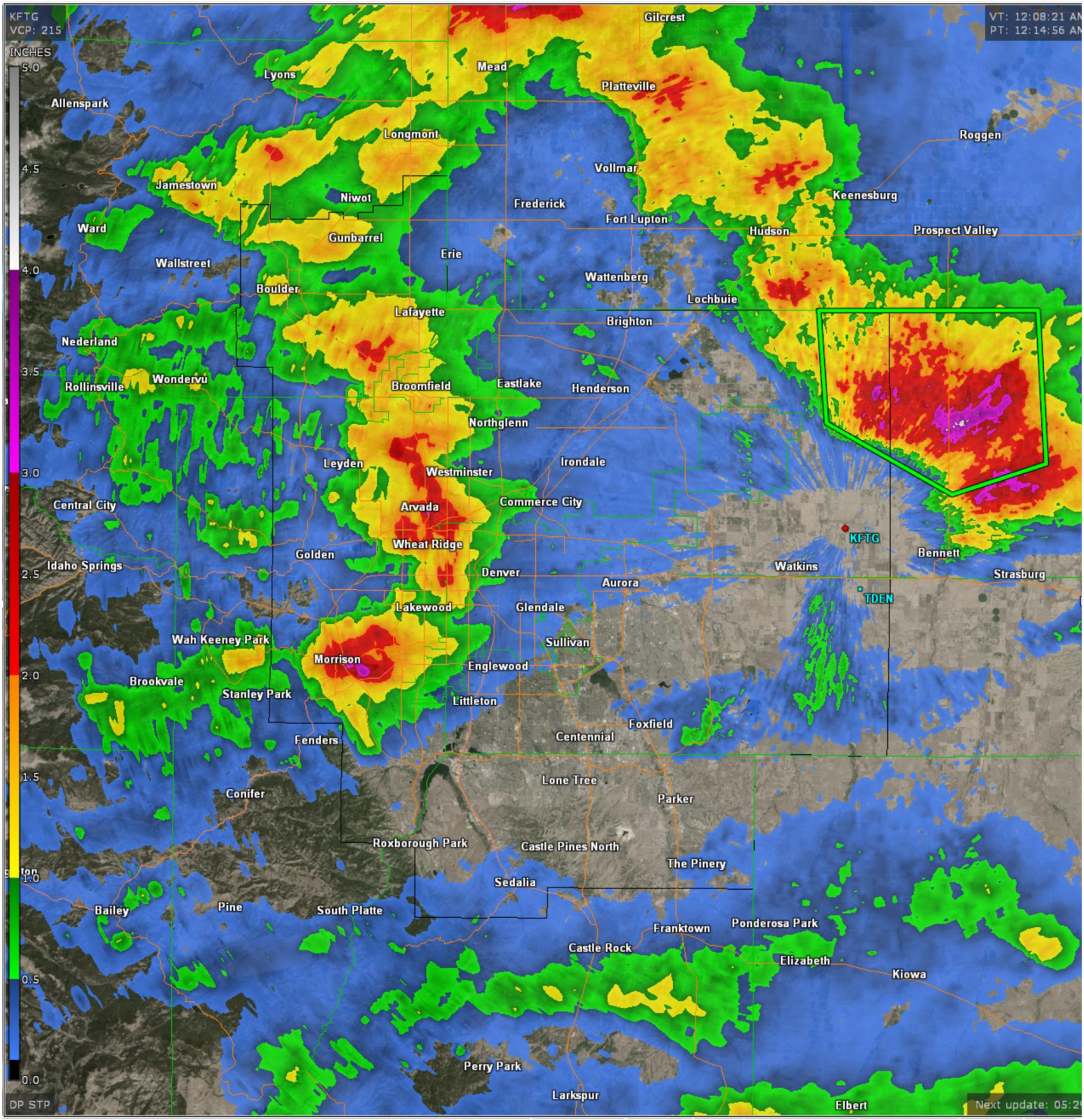


Fig 1: Storm Total Precipitation GR Level KFTG at 12:08 AM MST, 07/17/2025

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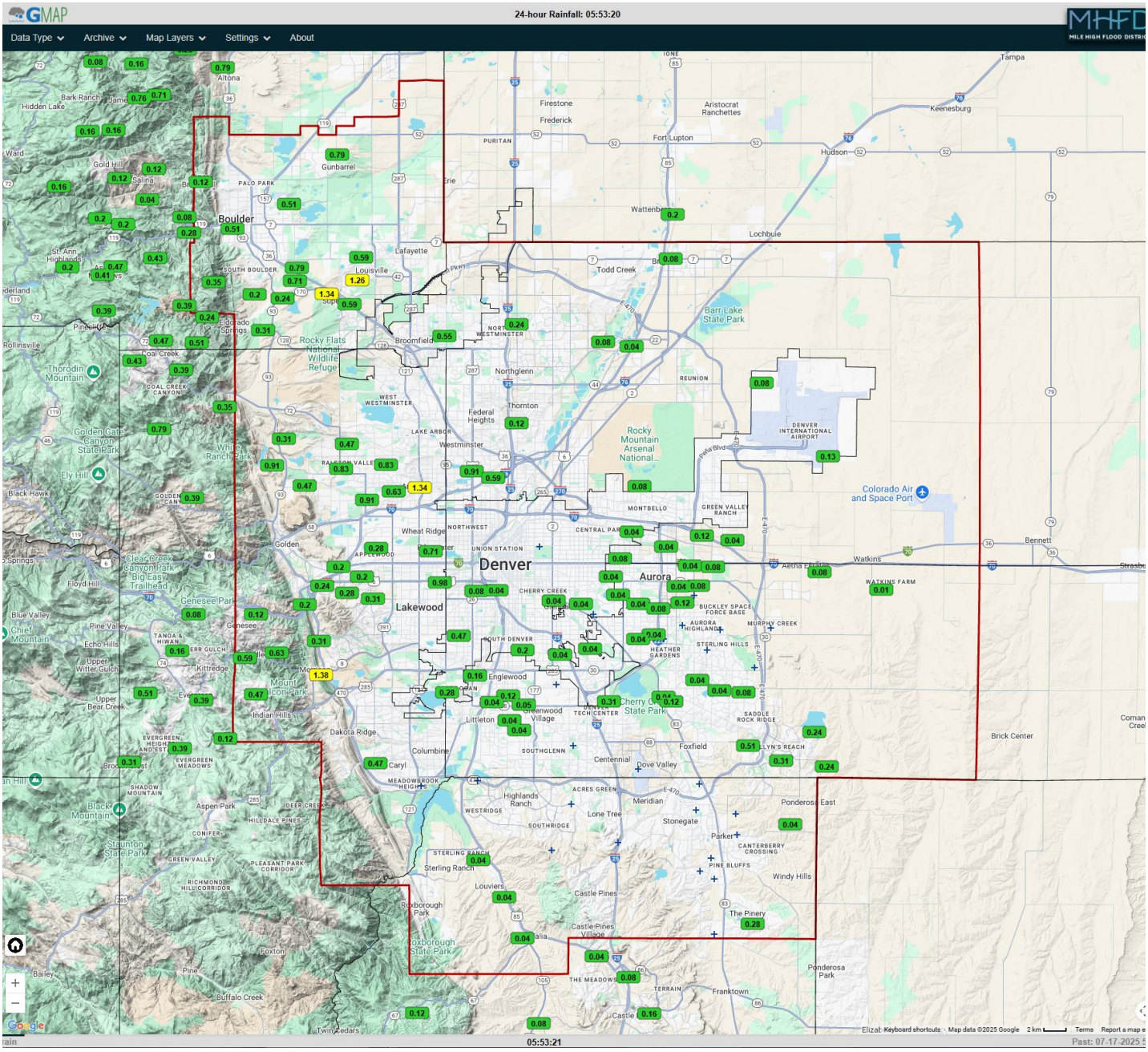


Fig 2: MHFD 24-Hour Rainfall Totals at 5:53 AM MST, 07/17/2025

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RAINFALL RATE ALARMS

Rainfall rate alarm	1.00 inch in 1 hour	2330	Bear Creek at Morrison	07/16/2025 23:48:45
Rainfall rate alarm	0.30 inches in 12 hours	1340	Sanderson at Xavier	07/16/2025 23:31:50
Rainfall rate alarm	0.50 inches in 10 minutes	1550	Lakewood CC	07/16/2025 23:11:25
Rainfall rate alarm	1.03 inches in 1 hour	100	Carr Street	07/16/2025 23:00:05
Rainfall rate alarm	1.00 inch in 1 hour	100	Carr Street	07/16/2025 22:54:06
Rainfall rate alarm	0.77 inches in 1 hour	100	Carr Street	07/16/2025 22:40:05
Rainfall rate alarm	0.50 inches in 10 minutes	100	Carr Street	07/16/2025 22:32:06
Rainfall rate alarm	1.00 inch in 1 hour	1100	Louisville Dwy D	07/16/2025 22:01:26
Rainfall rate alarm	0.50 inches in 10 minutes	1100	Louisville Dwy D	07/16/2025 21:45:26
Rainfall rate alarm	0.50 inches in 10 minutes	2900	Russellville Gulch	07/16/2025 15:31:20
Rainfall rate alarm	0.50 inches in 10 minutes	120	West Woods	07/16/2025 15:18:05
Rainfall rate alarm	0.50 inches in 10 minutes	150	Nott Creek	07/16/2025 14:49:05
Rainfall rate alarm	0.25 inches in 10 minutes	100260	Trumbull Fire Station Wx	07/16/2025 14:48:00

Fig 3: MHFD Alarms for 7/16/2025

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