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& HydroMet Consulting, LLC



Colorado Flood Threat Bulletin
Colorado Water Conservation Board

Forecasts Provided by  **Dewberry**

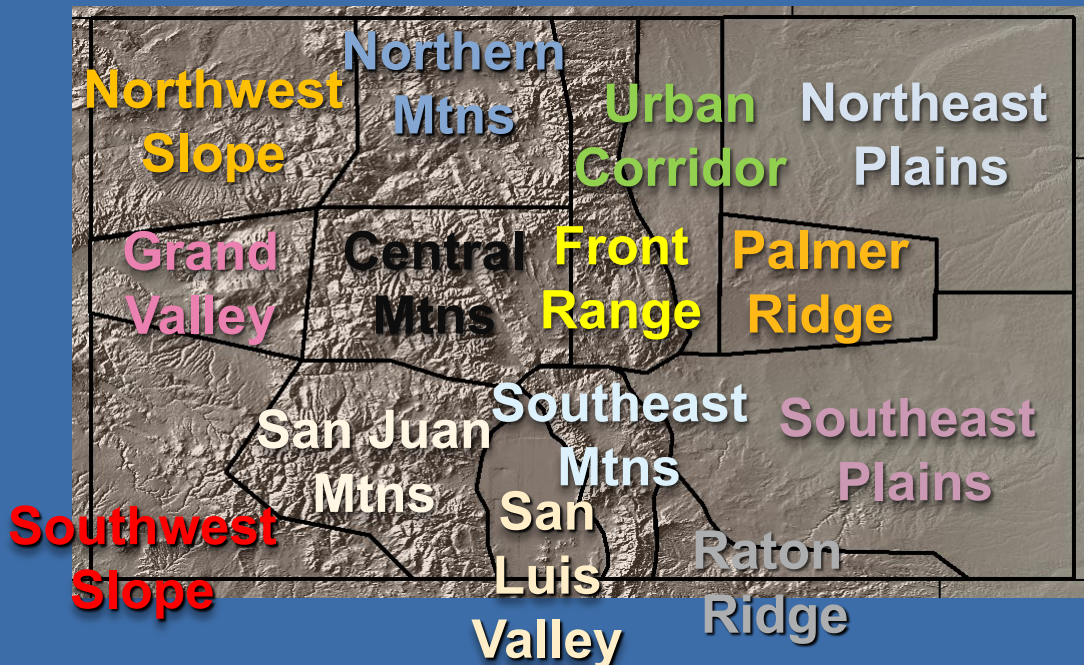
2021 FTB Forecast Season

March 18, 2021 / Flood Task Force Meeting

Colorado Flood Threat Bulletin

<http://www.coloradofloodthreat.com>

Objective: Increase lead time for anticipating heavy rainfall over Colorado during the warm season



- 14 Forecast Zones with a large range in topography
- Product informs users on heavy rainfall:
 - timing
 - location
 - intensity
 - confidence
 - nature of the threat

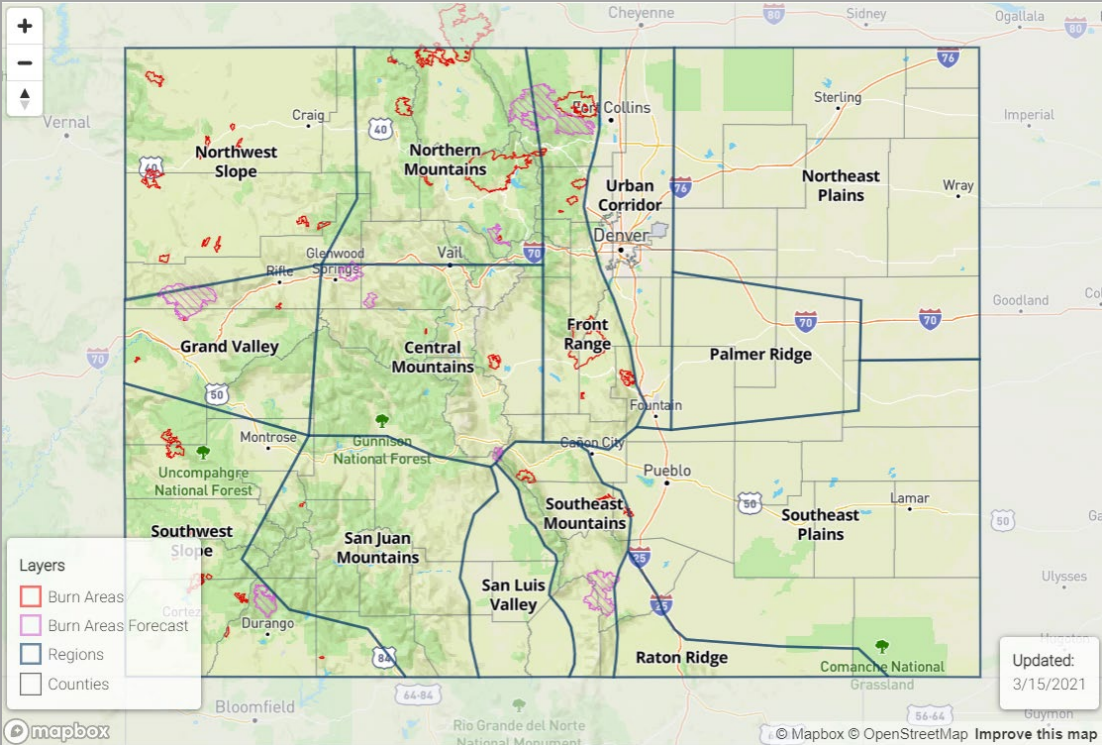
Colorado Flood Threat Bulletin – Products

- Flood Threat Bulletin (FTB)
 - Issued by 11am daily
 - Identifies areas of flood risk for a 24-hr period
 - Possible PM updates
- State Precipitation Map (SPM)
 - Issued by 11am daily
 - Recaps the past 72-hours of hydrometeorological conditions
 - Rainfall totals, flooding, antecedent soil conditions
- Flood Threat Outlook (FTO)
 - Issued Monday and Thursday by 3PM
 - Outlook of threat and precipitation totals over the next 15 days
 - Rapid snowmelt, local heavy rainfall, drought development

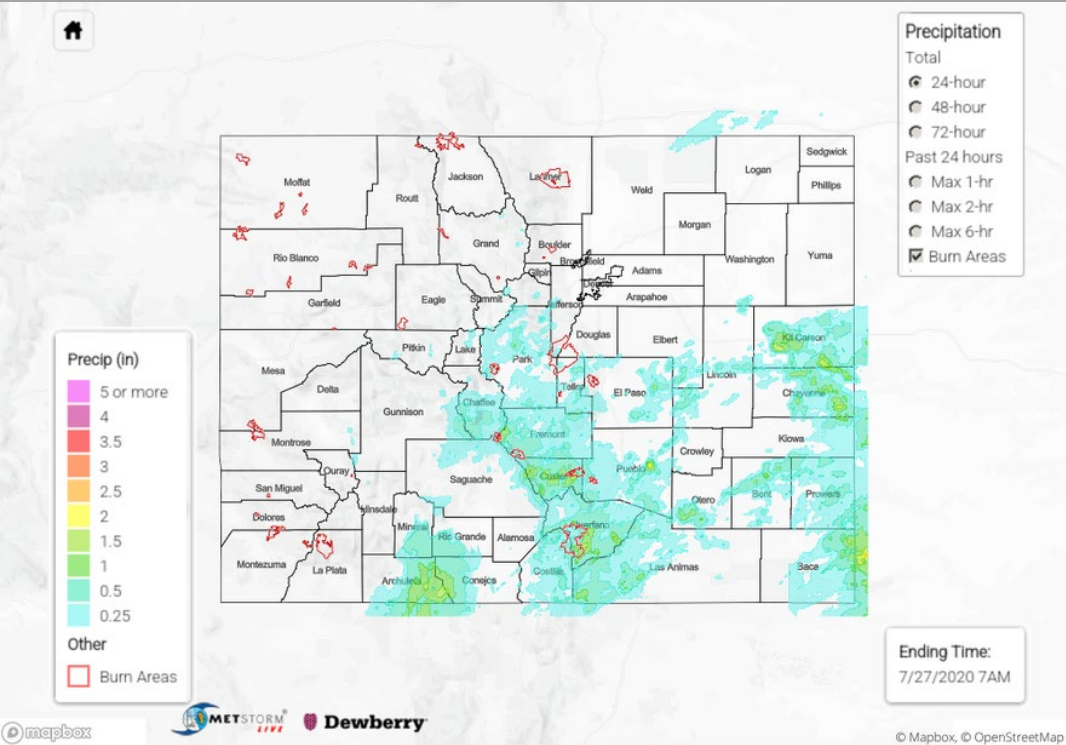
THREAT	DESCRIPTION
NONE	No flood threat is expected.
LOW	Low probability (<50%) that isolated/widely scattered flooding will occur. If flooding occurs, low impact/severity is anticipated.
MODERATE	Moderate probability (50-80%) of flooding occurring.
HIGH	High probability (>80%) of flooding occurring.
HIGH IMPACT	High probability (>80%) of <i>high-impact</i> flooding due to a combination of factors including, but not limited to: high population density, antecedent rainfall and/or long-term duration.
NWS WARNING	Active NWS Flood Warnings (riverine).

Colorado Flood Threat Bulletin – 2020 Upgrade Review

Burn Area Map

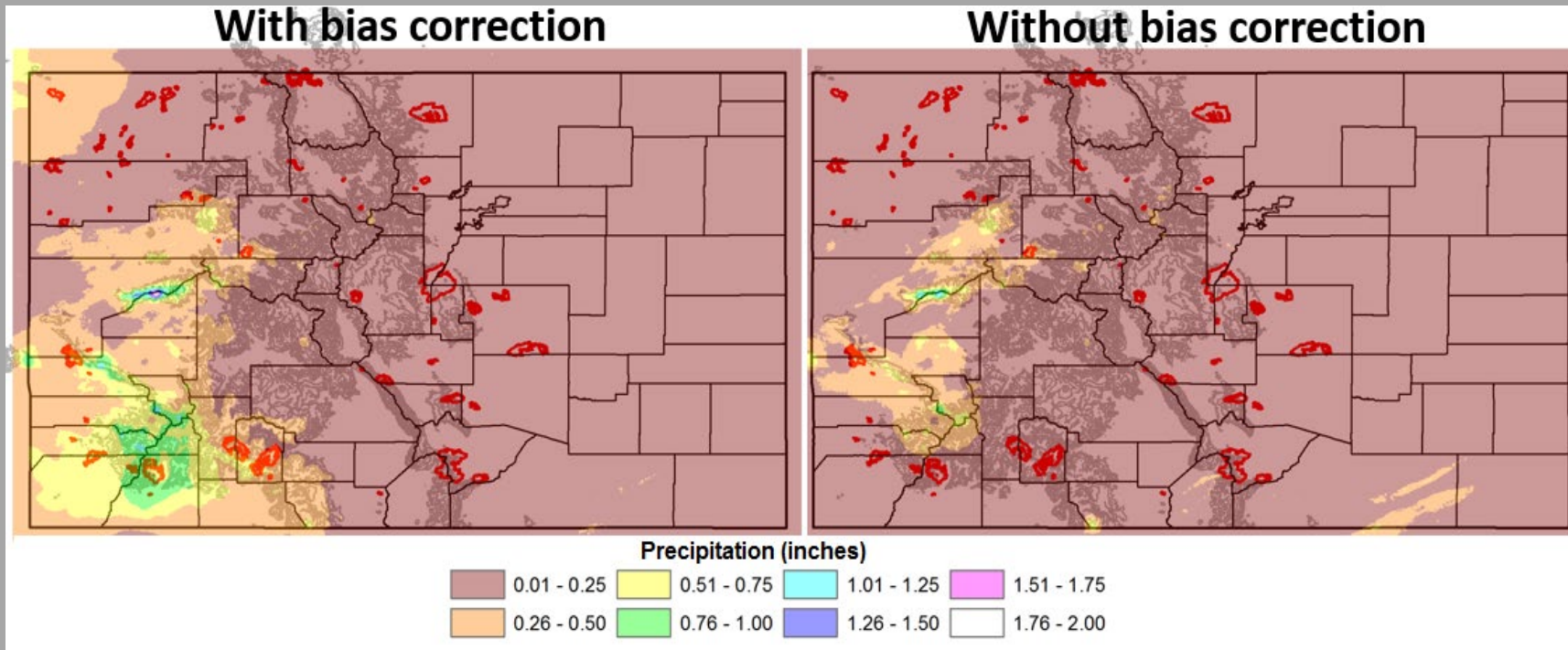


State Precipitation Map



Colorado Flood Threat Bulletin – 2020 Upgrade Review

- Bias Corrected State Precipitation Map (SPM)



Colorado Flood Threat Bulletin – 2020 Upgrade Review

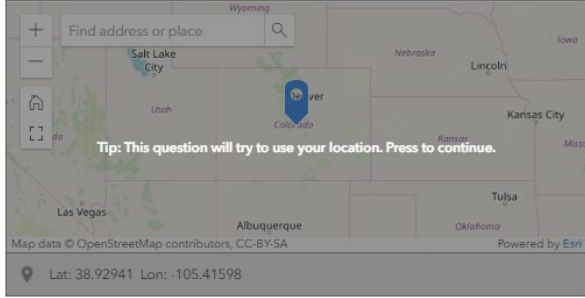
- *Report a Flood*
 - Date/Time*
 - Location*
 - Type*
 - Hazards*
 - Total Rainfall
 - Additional Details
 - Contact Information

Report a Flood

PLEASE NOTE: questions marked with a red asterisk (*) are required.

Event Date/Time*
Please enter the date and time of the flood event.

Event Location*



Event Type*
Please Enter the Flood Type

Event Hazards*

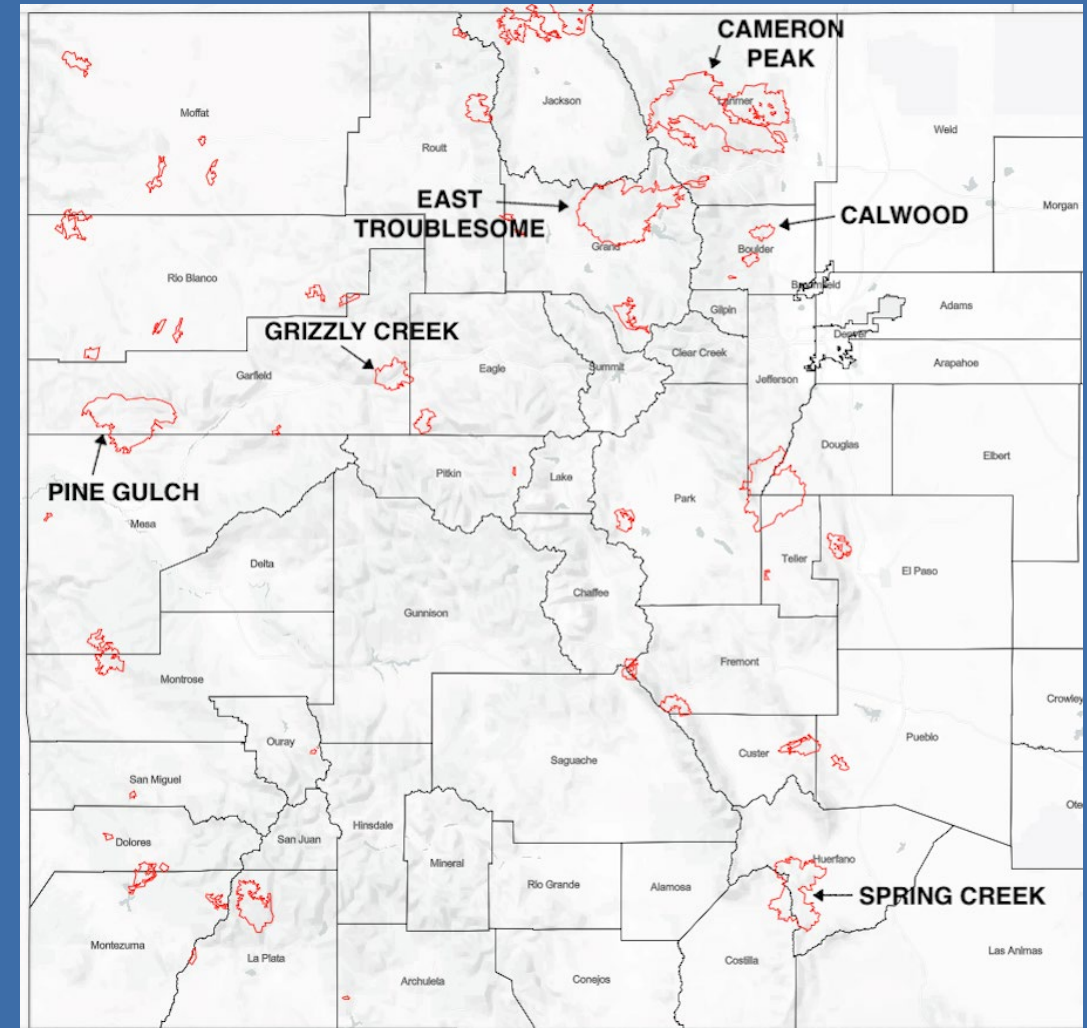
☐ Minor street flooding

☐ Major street flooding (non-drivable)


☐ Widespread flooding

Colorado Flood Threat Bulletin – New Upgrades for 2021

- Implementation of dedicated wildfire burn area forecast page
 - Daily monitoring and threat forecasting of 6 large burn areas (5 from 2020) in tabular format
 - Fields include:
 - Multi-variable estimate of antecedent conditions
 - Percentage of burn area that received rainfall
 - Assessment of whether flooding occurred in past 24 hours
 - Threat forecast for next 24 hours
 - Archived daily (blog style) for better awareness during multi-day events

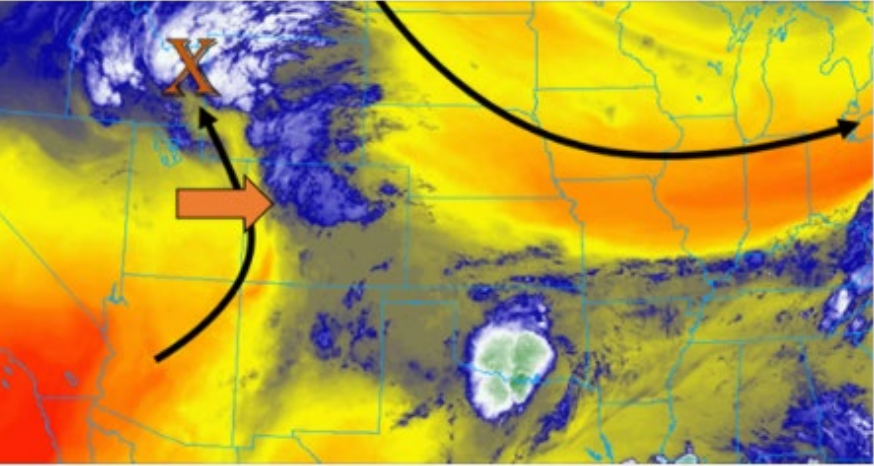


Facebook & Twitter: @COFloodUpdates

 **Colorado Flood Threat Bulletin**
July 28, 2020 · 🌐

#FTB: A passing shortwave will increase chances for more storms and rain over the mountains and plains today. #Monsoon2020 moisture remains, so a moderate/low #COFlood threat has been issued. This includes the SE mtn burn areas. #COWx

<https://www.coloradofloodthreat.com/?p=12539>




COLORADOFLOODTHREAT.COM

FTB 07-28-2020: Upper-Level Energy Uses Monsoon Moisture to Generate More Rainfall

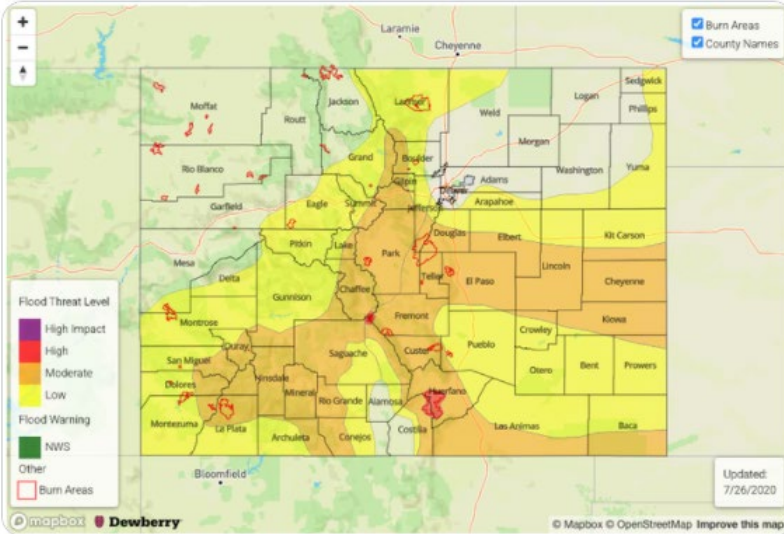
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Like Comment Share

 **CO Flood Updates**
@COFloodUpdates

Very heavy rain & isolated flooding likely across southeast Colorado. Dangerous mud flows possible over Spring Creek & Decker burn scars warrant High threat. Elsewhere, widespread Mod/Low threat (including San Juans). PM update possible. #COWx #COFlood

[coloradofloodthreat.com](https://www.coloradofloodthreat.com)



12:18 PM · Jul 26, 2020 · Twitter Web App

#COFlood
#COWx
#COfire

Contact Information

- Website: www.coloradofloodthreat.com
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