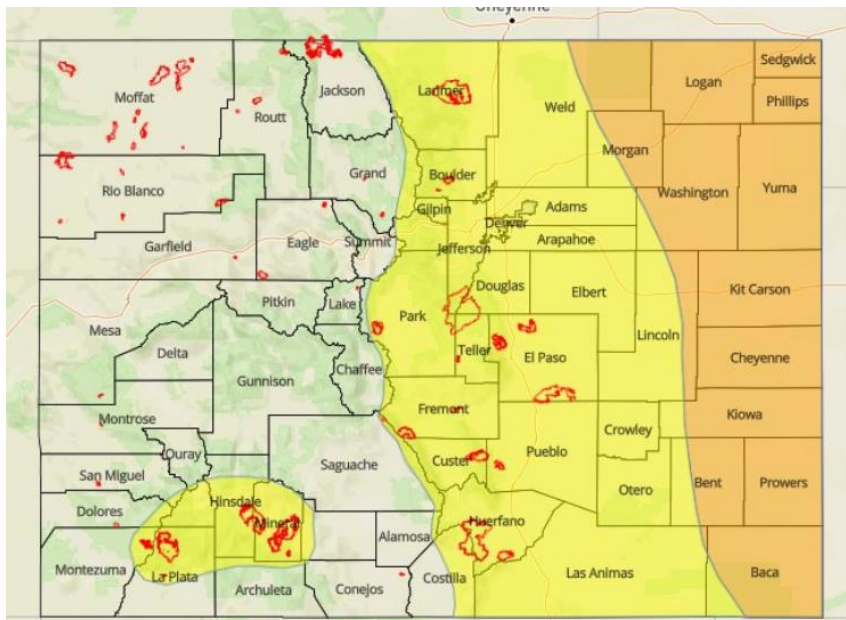
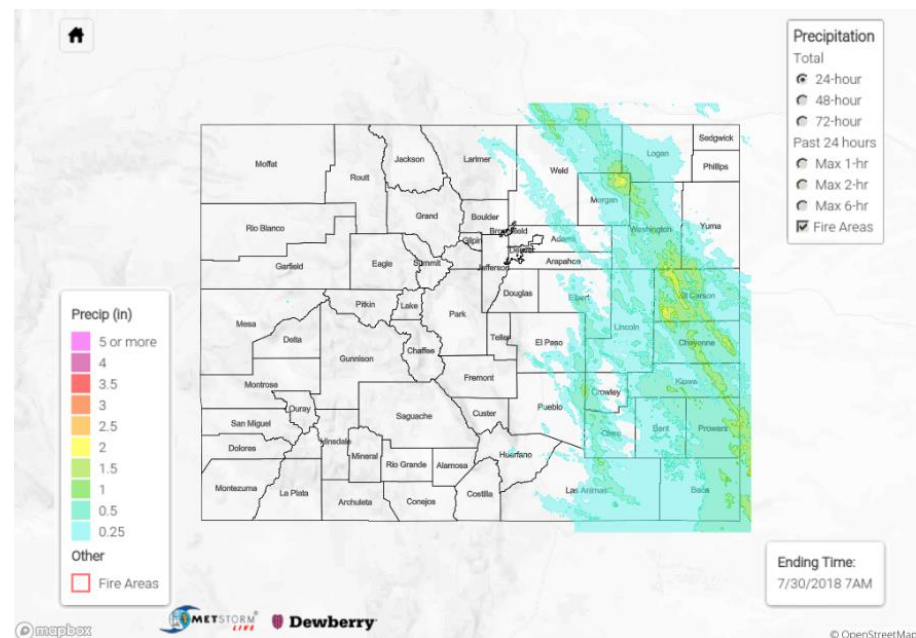


## Flood Threat Map – July 29, 2018



## State Precipitation Map





# Colorado Flood Threat Bulletin

## Colorado Water Conservation Board

Forecasts Provided by  **Dewberry**

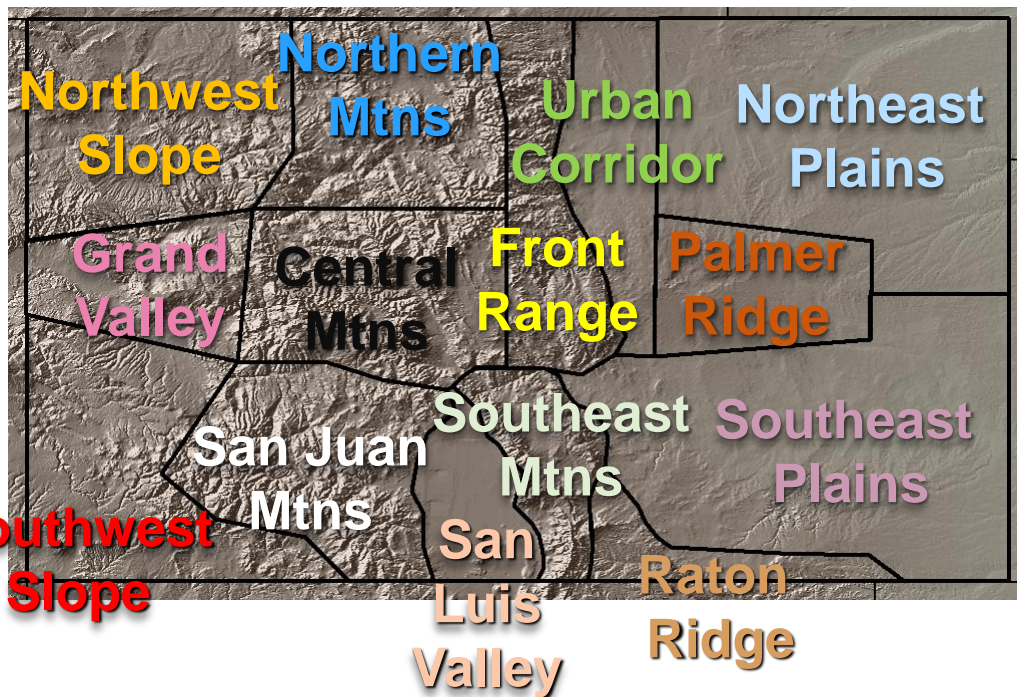
Lead Forecasters: Dana McGlone and Brad Workman

# Colorado Flood Threat Bulletin

<http://www.coloradofloodthreat.com>

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

## Colorado



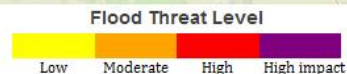
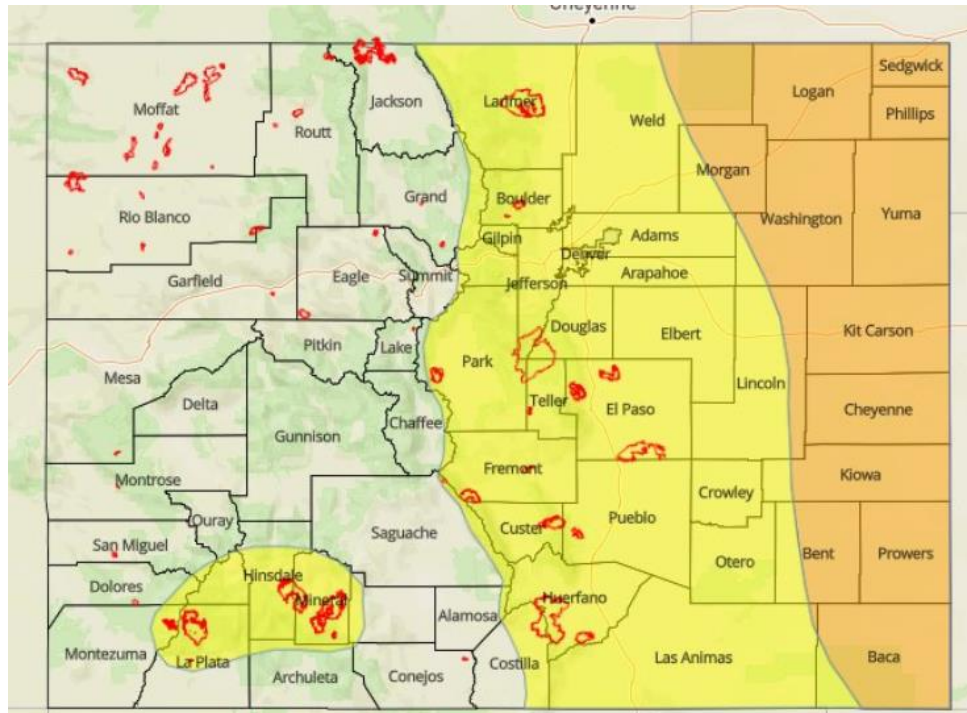
- 14 Forecast Zones with a large range in topography
- Product informs users on heavy rainfall:
  - timing
  - location
  - intensity
  - confidence
  - nature of the threat

# 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

# Flood Threat Bulletin (FTB)

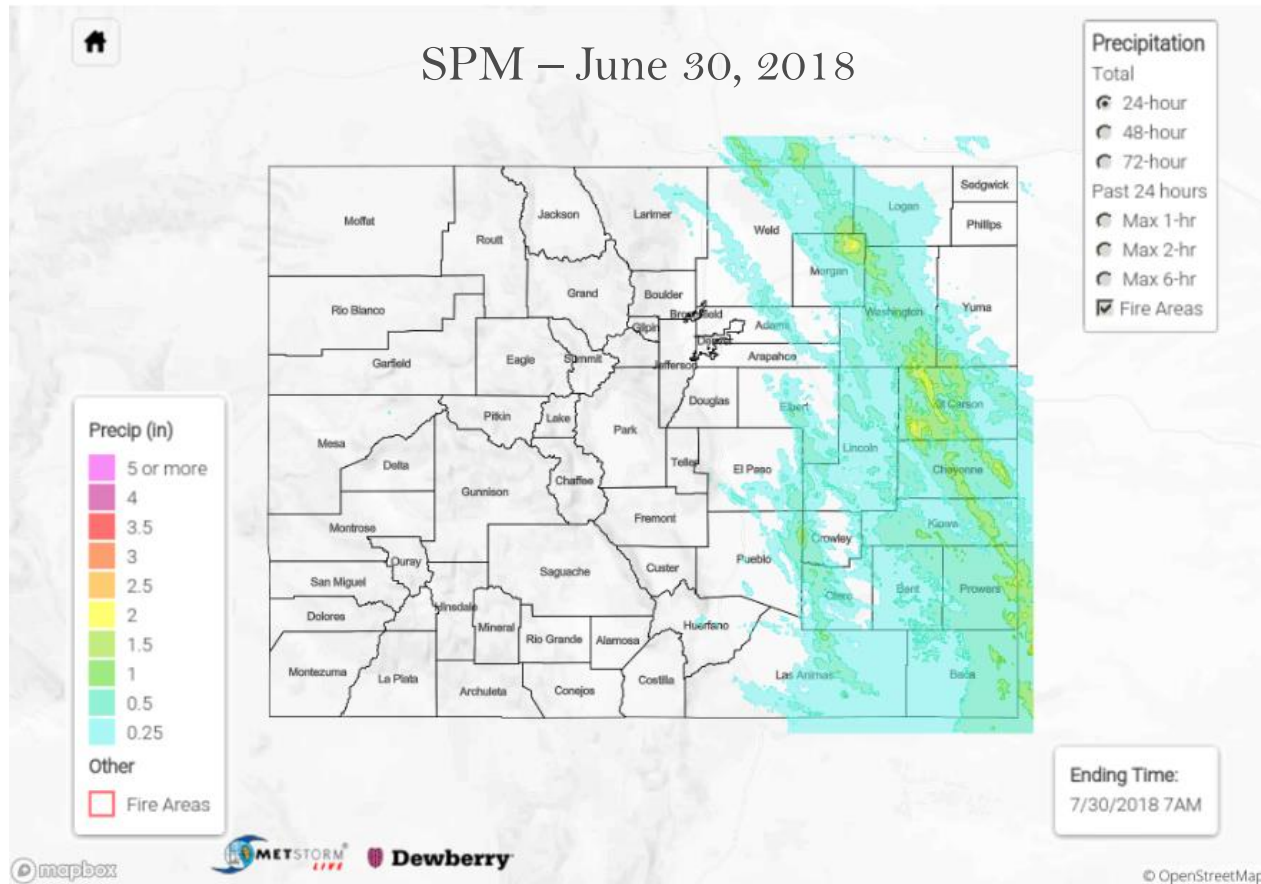
THREAT	DESCRIPTION
NONE	No flood threat is expected.
LOW	Low probability (<50%) that isolated/widely scattered flooding will occur. If flooding occurs, low impact/severity flooding is anticipated.
MODERATE	Moderate probability (50-80%) of flooding occurring.
HIGH	High probability (>80%) of flooding occurring.
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.



Flood Threat Map  
June 29, 2018



# State Precipitation Map (SPM)

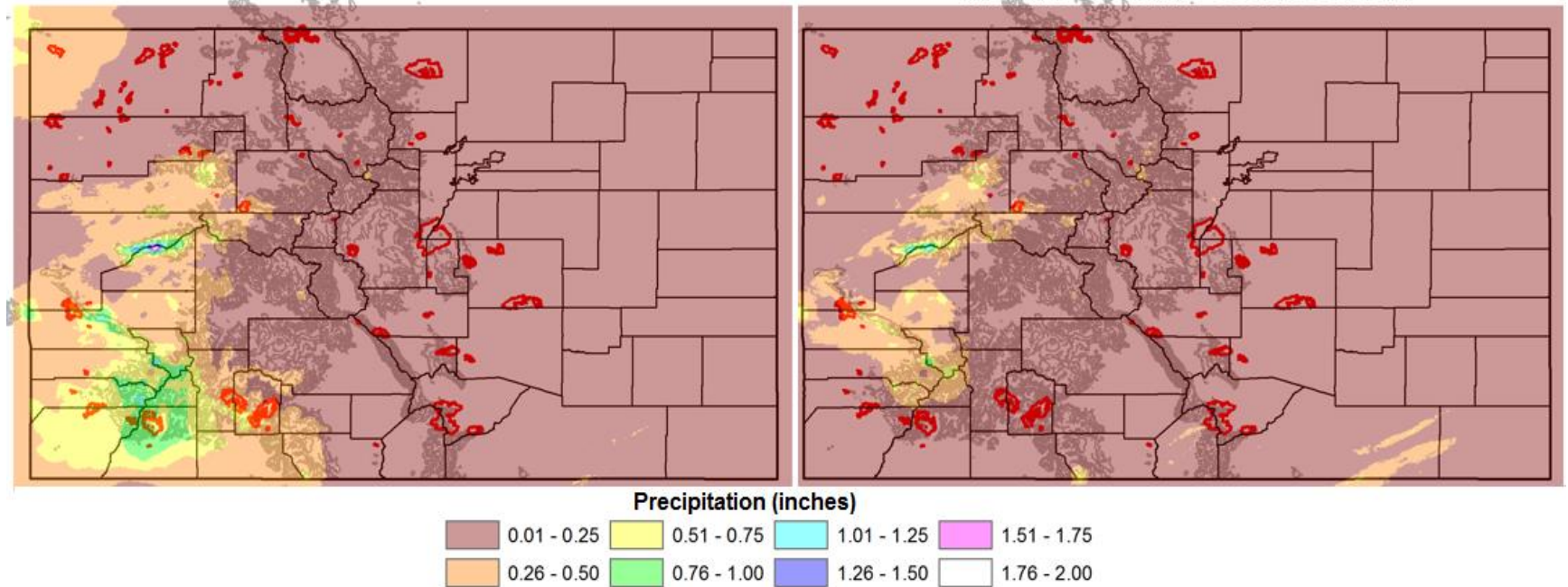


NE Plains reported 2.75 inch diameter hail (baseball size) with two tornadoes touching down near Granada. The storms produced 1-hr rain rates just over 2 inches

# State Precipitation Map (SPM)

With bias correction

Without bias correction



# Flood Threat Outlook (FTO)

Issue Date: Monday, July 9th, 2018

Issue Time: 1:55PM MDT

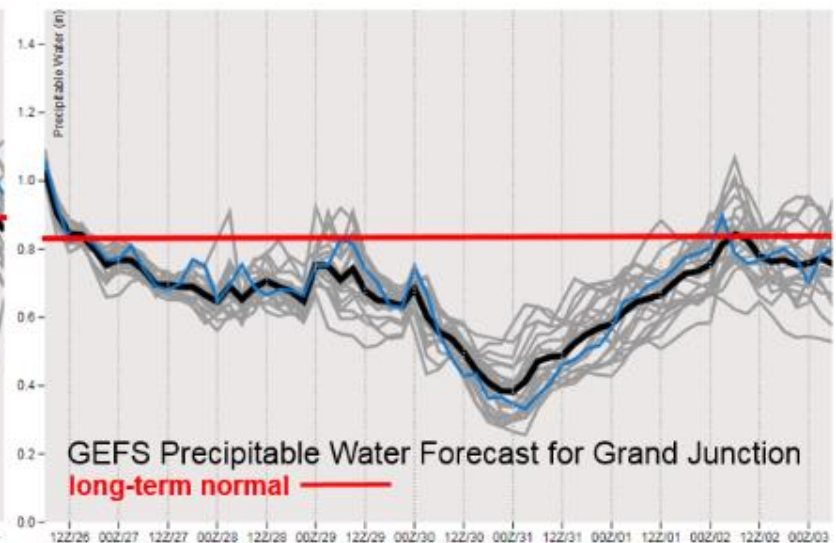
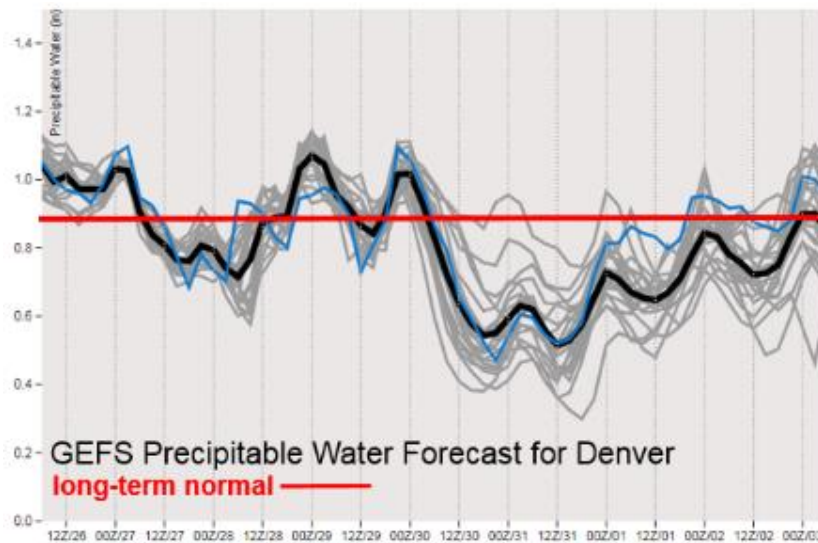
Valid Dates: 7/10– 7/24

## Colorado Flood Threat Outlook

Next 15 Days	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue
	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul
		Event #1				Event #2									



Twitter: @COFloodUpdates



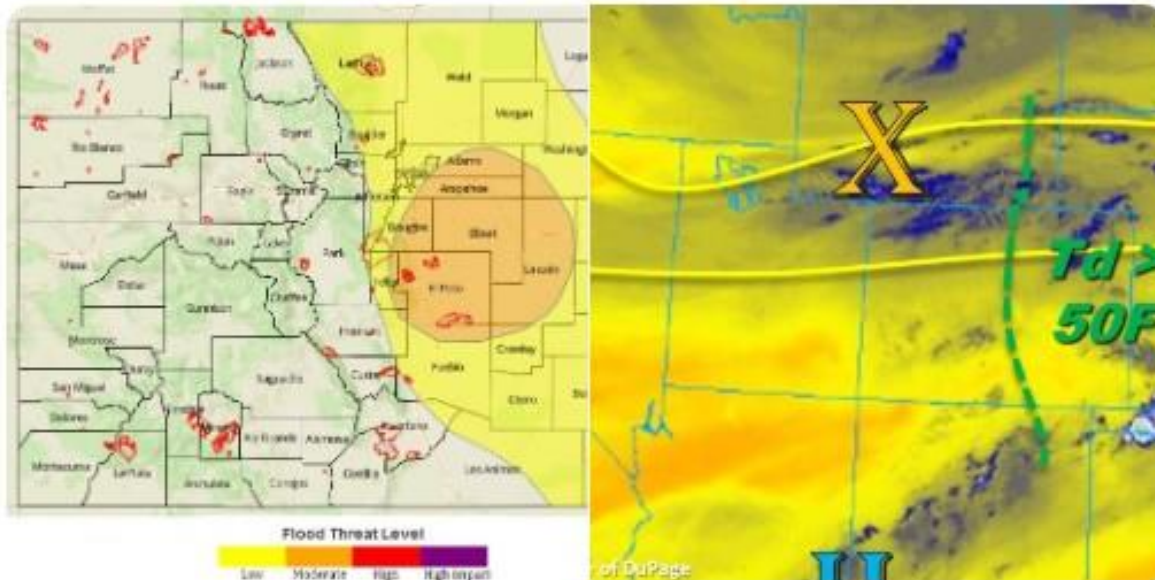
[http://www.emc.ncep.noaa.gov/gc\\_wmb/dorian/gefs/EMCGEFSplumes.html](http://www.emc.ncep.noaa.gov/gc_wmb/dorian/gefs/EMCGEFSplumes.html)

# Facebook & Twitter: @COFloodUpdates



**CO Flood Updates** @COFloodUpdates · 6 Aug 2018

#FTB: Post-frontal, low-level moisture returns the #COFlood threat to eastern CO. A Moderate/Low flood threat has been issued to start the work week. High instability and decent shear will promote some severe t-storms over the eastern plains as well. #cowx [coloradofloodthreat.com](http://coloradofloodthreat.com)

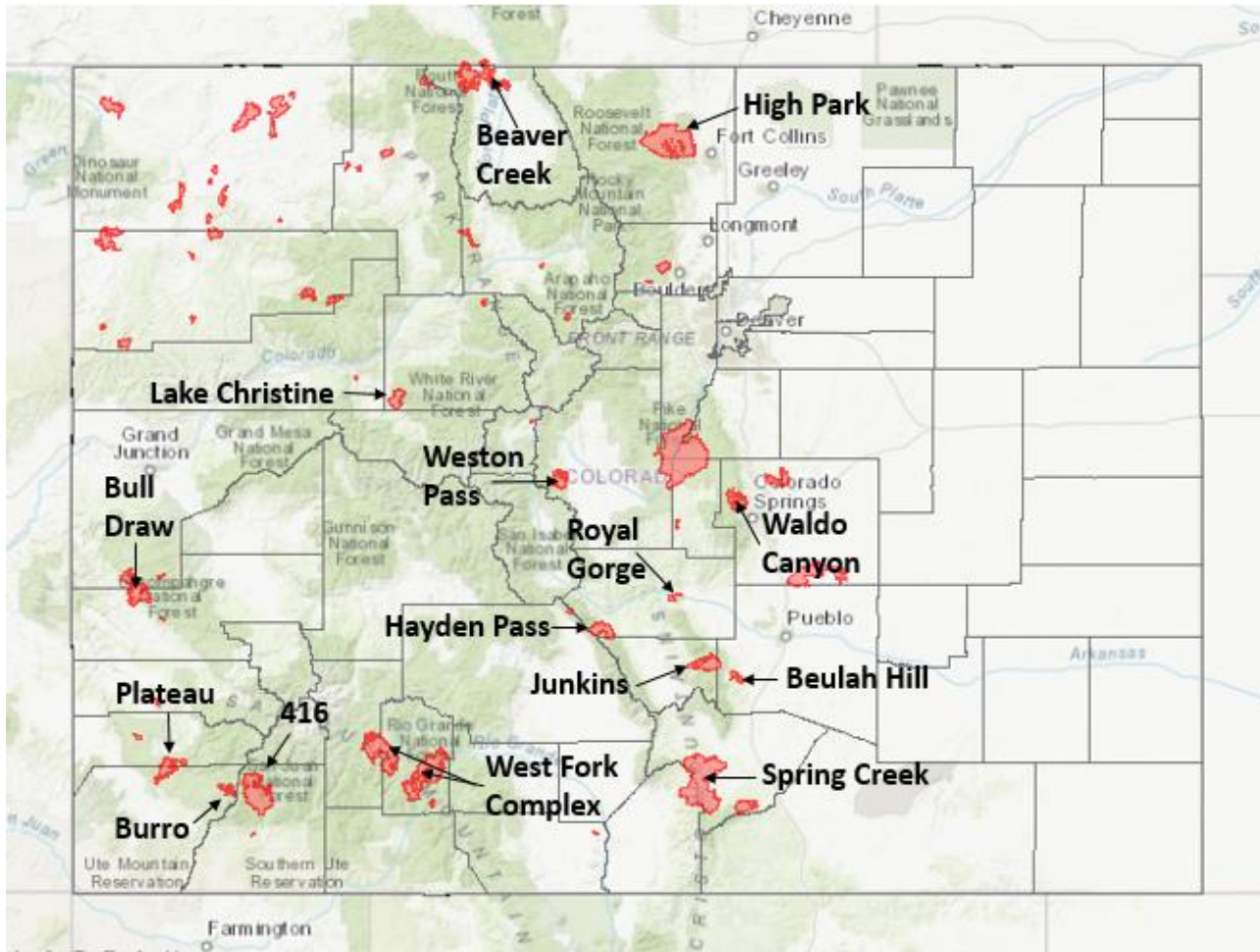


#COFlood  
#COwx  
#COfire



# Burn Areas

- 20 new fires added to the threat map in 2018
  - ✓ Steep terrain and at least 700 acres burned



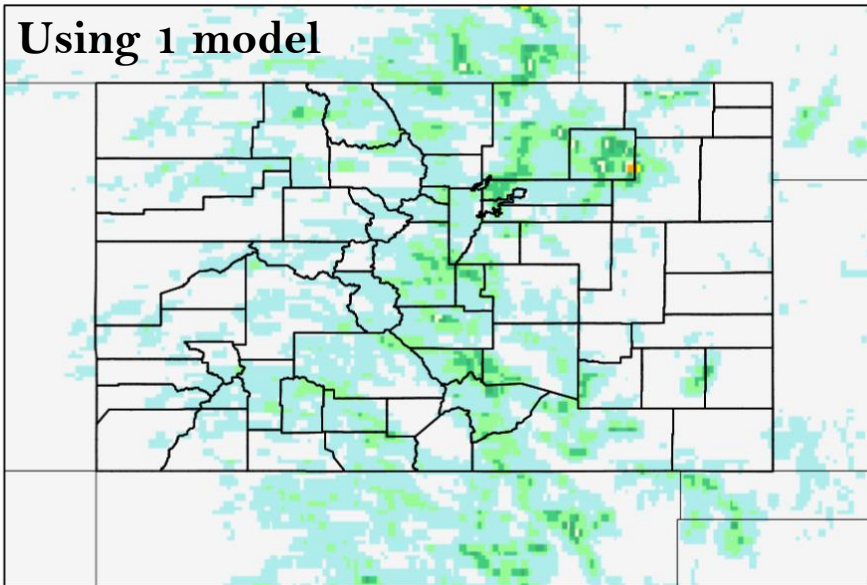
# Contact Information

- ❖ Website: [www.coloradofloodthreat.com](http://www.coloradofloodthreat.com)
  - Daily email service
- ❖ Twitter: @COFloodUpdates
- ❖ Facebook: @COFloodUpdates
  
- ❖ Email: [dmcglone@Dewberry.com](mailto:dmcglone@Dewberry.com)

# The benefit of an ensemble

Max 1-hour precipitation for 6/7/2017

Using 1 model



Using 23 models

