



COLORADO
OIL & GAS
ASSOCIATION

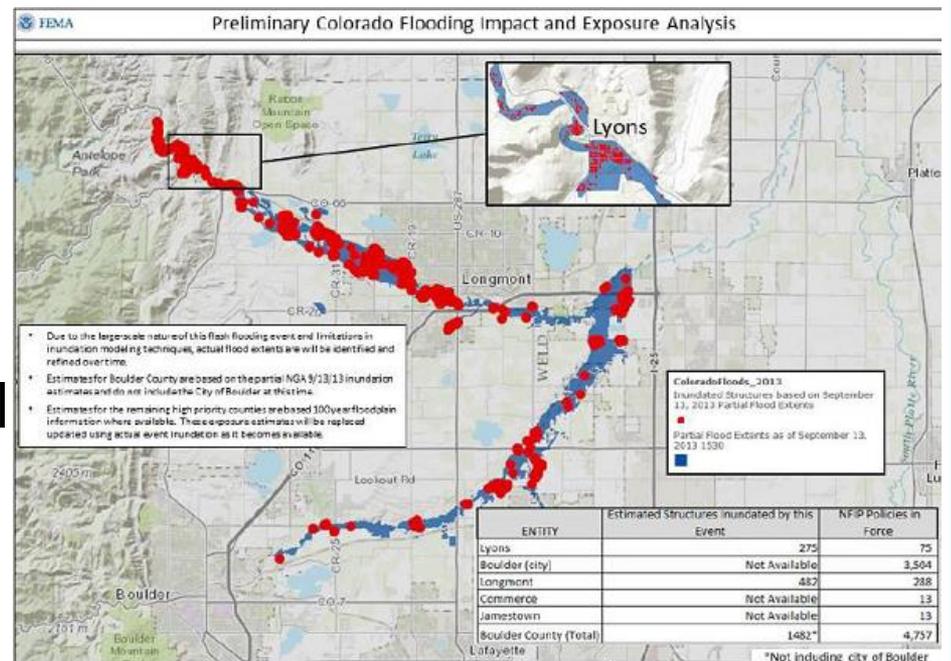
COGA Flood Relief Efforts



▶▶▶ CO Flood Response

- Historic proportions
- 17,500 homes damaged
- 1,500 homes unlivable or destroyed
- 200 miles of road and 50 bridges damaged or destroyed
- 17,900 registrations for FEMA assistance
- 765 damaged commercial properties

Source: Colorado.gov OEM



▶▶▶ Before Flooding

- Prepare for the Unexpected
- Emergency Response Plans
- Drills
- Other Events
- Situational Awareness



▶▶▶ Flood Warning

- Evacuate drill-sites
- Remove on-site equipment
- Monitor situation
- Begin shut-in
- Set up emergency command centers



▶▶▶ When Floods Hit

- Shut-in upstream & midstream facilities
- Operate emergency command centers
- Deploy personnel in the field
 - >1,000 individuals working in teams to inspect,
- Report updates to local governments, emergency responders, COGCC
- Use vehicles, helicopters, and boats



▶▶▶ Address Incidents

- Ongoing 24/7 monitoring operations
- Investigate all concerns
- Report all incidents to local government, national command, EPA, COGCC, CDPHE
- Immediately contain
- Complete onsite cleanup



▶▶▶ COGA Updates

- Issued multiple daily updates
- Coordinated with company flood command centers for updates



▶▶▶ Extent of Impact

- Area of approximately 20,000 wells
- >1,900 wells shut in
- 13 total oil release incidents – 43,134 gallons
- 17 total produced water incidents – 26,385 gallons



▶▶▶ Correcting Misinformation

Flooded Fracking Wells Wreak Havoc in Colorado

by Beth Bucznski | September 20, 2013 | 6:30 am

Like 64 people like this. Be the first of your friends.



SHARE 64

TWEET 86

PIN IT 5

SHARE 12

COMMENT 77

SEND AN EMAIL

get CAUSES in your inbox

enter your email address

sign up

Natural gas fracking has been linked to everything from sick cattle to earthquakes. Environmental activists often focus on fracking's very immediate impacts on [water and air quality](#), something the industry is quick to deny. However, the recent "biblical" floods in Colorado have exposed a less obvious risk of allowing fracking into our communities.

Although you're not likely to hear about it from the mainstream media, anti-fracking groups on the ground in Colorado have noted a disturbing development: oil and gas wells across Northern Colorado have been submerged by massively swollen rivers. Many drilling sites are still flooded, hampering progress in shutting them down.

From [Ecowatch.com](#):



DP HIGH SCHOOLS: Football season is in full swing in Colorado. Follow all the action. » [denverpost.com/post](#)

Front Range Flooding

Oil spilling into mix

10 Sites of gas and oil spilling from damaged tanks in flood-affected areas

18,725 Gallons of oil spilled in two sites reported by Anadarko Petroleum

20,500 Wells in Weld County, plus 321 in Boulder County and 253 in Larimer County



A damaged tank Thursday leaks crude close to the north Platte River near Wiggins, Archaic Press. The Denver Post

Deniro: Complete coverage. » [DENIRO: Oil and gas spills in flood-affected areas.](#) » [cphd.com/deniro.com](#)

"We have to find a new balance; otherwise, even the moral edifice of the church is likely to fall like a house of cards"



By Mike Winkfield and Rachel Ball
The Associated Press

NEWARK, N.J. (AP) — Signaling a dramatic shift in Vatican news, Pope Francis said the Catholic Church had become divided by "small, isolated riles" about how to be faithful and that parties should "avoid" theological arguments over the issue.

COMING SUNDAY
The Denver Post begins a four-part investigation into Colorado's public schools and students that led to deadly consequences.

SPORTS
Each comes out.

Gen. John Hickenlooper on Thursday set a five-point deadline for resolving an energy investment and made and bridge as possible. A key element of Colorado's recovery from flooding that devastated the state's economy is to ensure that the state's energy and infrastructure are resilient to future flooding.

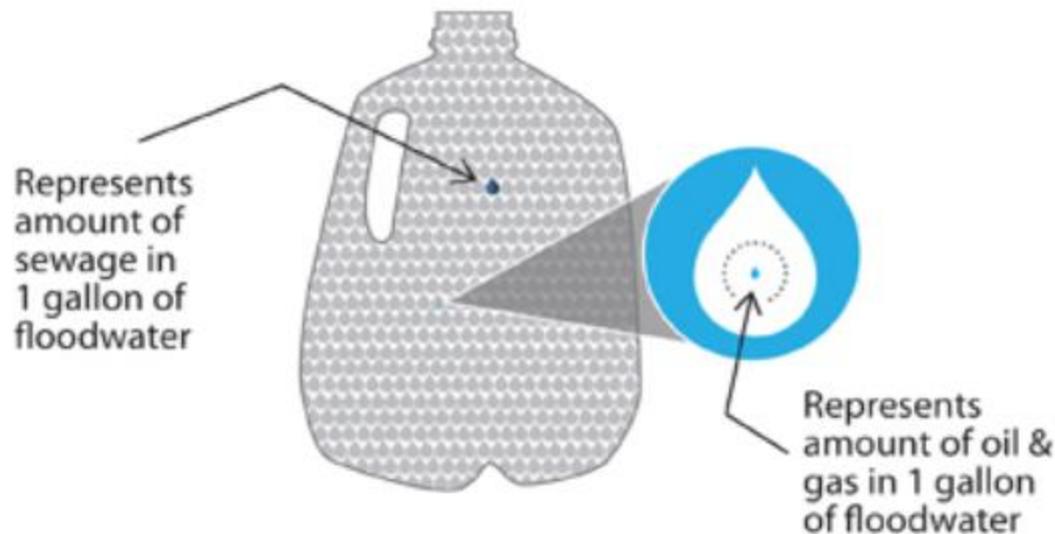
▶▶▶ In Perspective

>100 billion gallons rain

~220 million gallons raw/partially treated sewage

43,000 gallons of oil

FLOODWATER IN A GALLON



▶▶▶ CDPHE Testing

- CDPHE testing of 29 sites
- No oil and gas contaminants
- E-coli identified in 14 samples above state standards



▶▶▶ Mobilizing Our Members



▶▶▶ Organized Volunteer Efforts

- 4 weeks debris removal and repair operations
- 200 portable toilets
- Over 60,000 lbs food
- Over 99 pallets of water
- \$70,000 in gift cards
- Over 1000 warm meals



▶▶▶ Red Cross

36 companies contributing over
\$2.3 million to Red Cross

THE 500 YEAR FLOOD
\$500K CHALLENGE
GRANT
COGA

COLORADO OIL & GAS INDUSTRY RESPONDS!

noble energy
American Red Cross

Let's not miss out on this important opportunity to give.

American Red Cross

COLORADO OIL & GAS ASSOCIATION

▶▶▶ Thank You

@ColoradoOilGas

@tishaschuller



COGA

Tisha Schuller COGA



www.coga.org