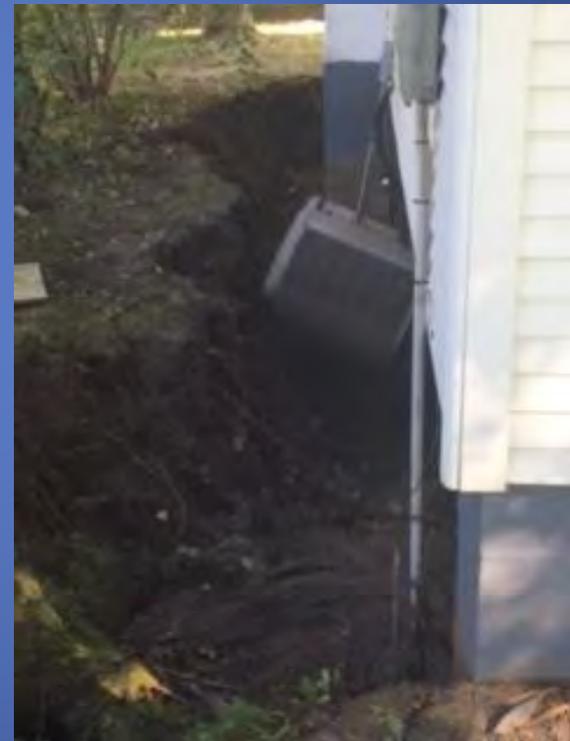


Big Water-Small Towns

Greene, Clarksville, & Shell Rock



Presenter: Mitch Nordmeyer-Butler County Emergency Management

Big Water-Small Town

Butler County Iowa:

Area: 582 sq miles

Population: 14,939

Communities: 10

Flowing Bodies of Water: Shell Rock River

West Fork-Cedar River

Beaver Creek

Hartgraves Creek

Maynes Creek

All of this water eventually flows in to the Cedar River in the Waterloo/Cedar Falls area.

Big Water-Small Towns

2016 Communities that received flooding:

- **Clarksville...Pop.-1,439**
- **Greene...Pop.-1,130**
- **Shell Rock...Pop.-1,296**

Big Water-Small Towns

Timeline of events-September 21, 2016 (NWS)

- 5:13 p.m. Severe Thunderstorm Warning
- 5:19 p.m. Tornado Warning-Greene Area
- 6:17 p.m. Tornado Warning-Greene Area
- 6:58 p.m. Flashflood Warning-Greene Area
- 6:59 p.m. Tornado Warning-Greene Area
- 7:43 p.m. Tornado Warning-Greene Area
- 11:00 a.m. Flood Warning 9/22/16-9/27/16

Big Water-Small Towns

Timeline of events-September 21, 2016

- 8:05 p.m. Called Greene Mayor & Fire Chief. IC Established at EMS Building
- 8:15 p.m. Severe Wind Damage-Greene Lots of trees down some on top of houses/cars
- 9:00 p.m. Sandbagging Ops Begin-Greene
- 9:15 p.m. House Fire-Greene
- 9:17 p.m. Rural Rescue Flooded House-Greene
- 9:30 p.m. Rural Rescue Flooded house-Greene
- 10:00 p.m.-2:00 a.m. 6 rural rescues from flooded homes made by Greene FD and Clarksville FD
- 11:00 p.m. Notified Clarksville Mayor/Fire Chief. IC established at Clarksville Fire Station.

Big Water-Small Towns

Timeline of events-September 22, 2016

- 7:00 a.m. Greene IC and Sandbagging Ops moved to North Butler High School due to rising floodwaters.
- Butler County EOC activated
- Noon Greene inundated by floodwaters
- 6:30 p.m. EMA moved from Greene to Clarksville
- 7:30-10:30 p.m. Built sandbag wall by levee in Clarksville
- 10:30 p.m. Contacted Shell Rock City Maint Supv & Mayor
- 11:00 p.m. Shell Rock IC established at City Hall
- 11:00 p.m. Lost sandbag wall in Clarksville-began house to house evacuation including Assisted Living/Care Facility
- 11:15 p.m. Clarksville inundated by floodwater
- Midnight Established ARC Emergency Shelter @ Clarksville High School

Big Water-Small Towns

Timeline of events-September 23, 2016

- 1:30 a.m. Finished evacuations in Clarksville
- 5:30 a.m. Began sandbagging ops in Shell Rock
- 10:30 a.m. Lost USGS gauge in Shell Rock due to flood damage
- Noon Discussed closing bridge over Shell Rock River
- Noon Shell Rock inundated by floodwater

Big Water-Small Towns

From roughly 7:00 p.m. on the night of Sept. 21st until 10:30 p.m. Greene and areas to our north (Floyd & Cerro Gordo Counties) received between 7.5" and 9.5" of rain. Between 10:30 p.m. and 1:00 a.m. on Sept. 22nd there was an additional 2.5" of rainfall. All of this fell on the Shell Rock River basin. This is what led to our flooding.

Big Water-Small Towns

River Crests

Greene: 6" Below 2008

Clarksville: 8-10" Higher than 2008

Shell Rock: ****Record Crest****

20.4' in 2008 21.5' in 2016

Big Water-Small Towns



Big Water-Small Towns



Big Water- Small Towns



Big Water-Small Town



Big Water-Small Towns



Big Water-Small Towns



Big Water-Small Towns



Big Water-Small Town

Federal Disaster Declarations in Butler County since 2009.....all from flooding.

DR-1763 (Tornado & Flood)

DR-1930

DR-4126

DR-4135

DR-4184

DR-4187

DR-4234