

The Disaster Center is dedicated to the idea that disaster mitigation is cost effective and individuals pursuing their own interest are the greatest potential force for disaster reduction.

Please consider making a small donation to the Disaster Center



When disaster mitigation is cost effective, we are on the road to bringing disasters to an end.



# **FEMA**

## **Daily Operations Briefing**

**Tuesday, January 10, 2017**

**8:30 a.m. EST**

# Significant Activity – Jan 9-10



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## **Significant Events:**

- Heavy Precipitation forecast to impact the western U.S.

## **Significant Weather:**

- Flash Flooding – Coastal and mountain areas of California
- Freezing Rain – Upper Mississippi Valley, Great Lakes, Ohio Valley
- Heavy Snow – Pacific Northwest, California, Central Great Basin, Rockies
- Snow – Pacific Northwest to Great Lakes
- Space Weather – Past 24 hours – None; Next 24 hours – None

**Tropical Activity Western Pacific:** No activity affecting U.S. interests

**Earthquake Activity:** No significant activity

**Declaration Activity:** None

# Winter Storm – West Coast



## Situation:

- Continuing storms on the West Coast will bring additional heavy rain and snow including lash flooding possible in CA
- Significant snow accumulation in the Sierra Nevadas

## Impacts:

- No injuries or fatalities reported
- 620 CA homes under mandatory evacuations; NV evacuation orders lifted
- Power outage for 9k CA homes (peak of 125k); minimal outages in NV\*
- Generally minor to moderate mainstem river flooding will remain possible through Wednesday across northwest and west central CA as well as west central NV
- Multiple state roads impacted by snow, debris, and mud; no major road closures

## Response:

- FEMA Region IX: RRCC Level II Activation (Day shift), Enhanced Watch (Night shift); IMAT-1 deployed to NV EOC
- FEMA LNOs deployed to CA and NV
- ISB Team on Alert
- CA and NV EOCs at Full Activation (Day Only), ID EOC at Partial Activation
- NV Governor has declared a State of Emergency
- CA: 3 (-11) shelters with 61 (-4) occupants; NV: 0 (-3) Shelters open (-136 occupants)



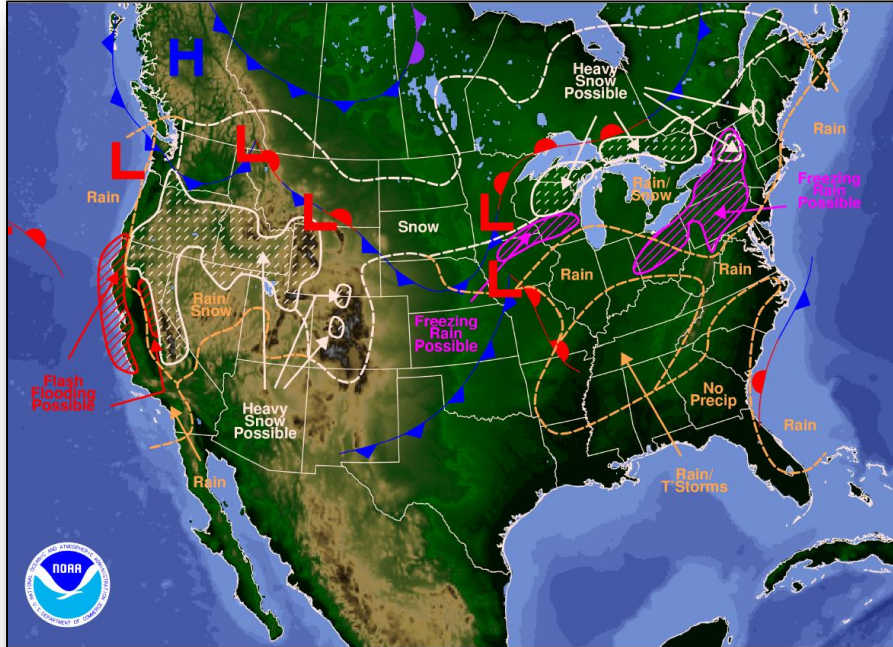
NASA GOES-R Satellite imagery of storms approaching U.S. West Coast  
Image from January 9, 2017

\*Note: Customer outage data is provided by the Department of Energy's EAGLE-I system. Comprehensive National coverage of all electrical service providers is not available

# National Weather Forecast

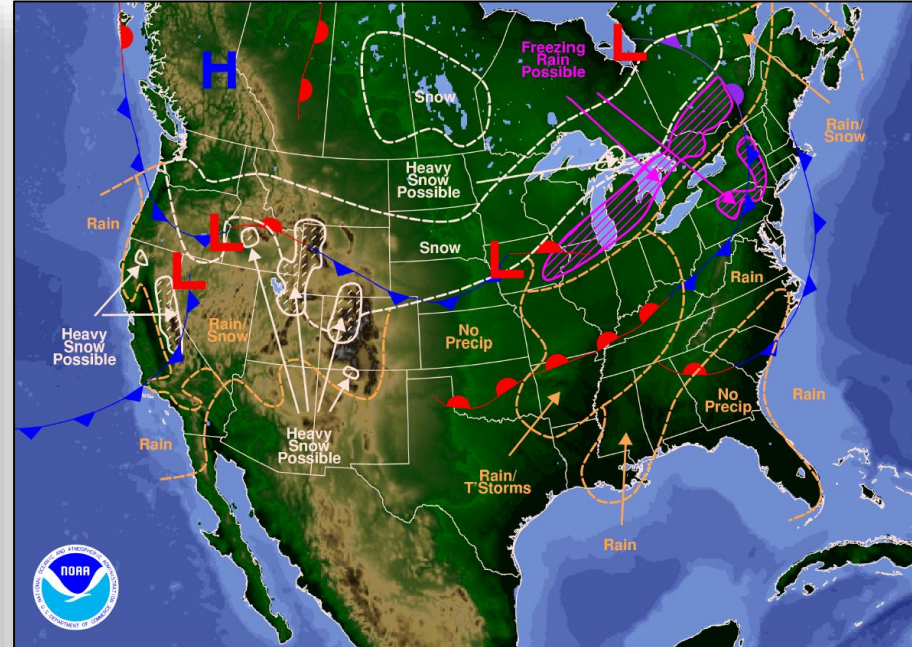


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Weather Forecast for Tue, Jan 10, 2017, issued 4:53 AM EST  
DOC/NOAA/NWS/NCEP/Weather Prediction Center  
Prepared by McCreynolds based on WPC, SPC and NHC forecasts

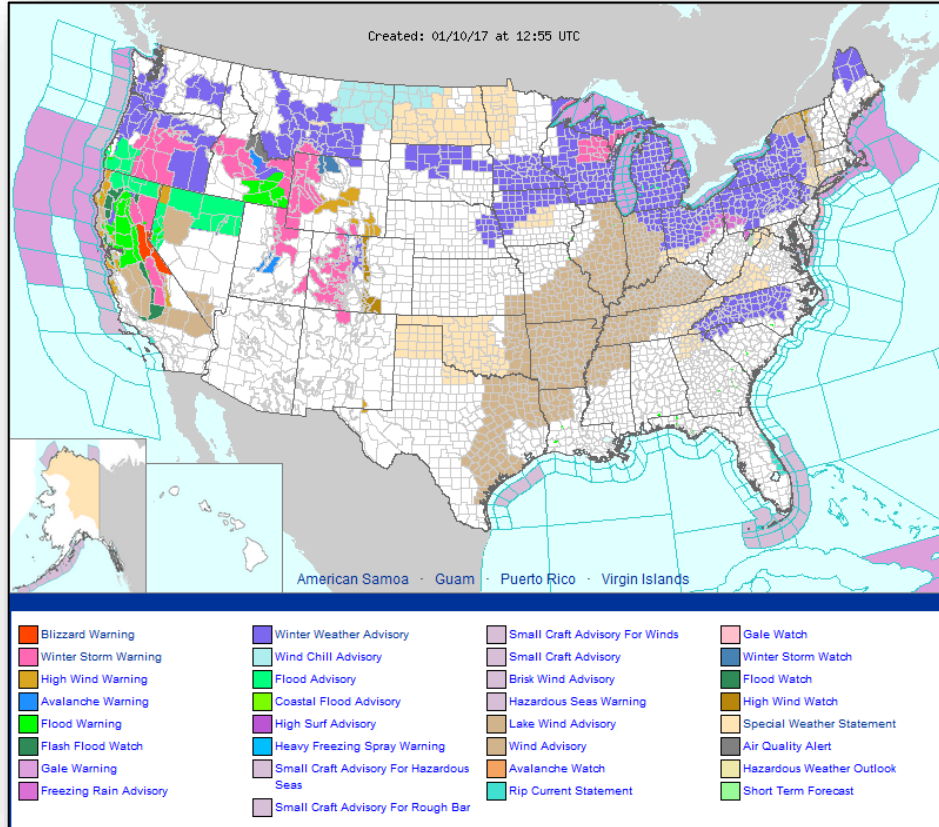
*Today*



Weather Forecast for Wed, Jan 11, 2017, issued 4:58 AM EST Tue, Jan 10, 2017  
DOC/NOAA/NWS/NCEP/Weather Prediction Center  
Prepared by McCreynolds based on WPC, SPC and NHC forecasts

*Tomorrow*

# Active Watches and Warnings

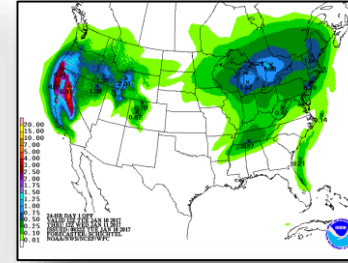
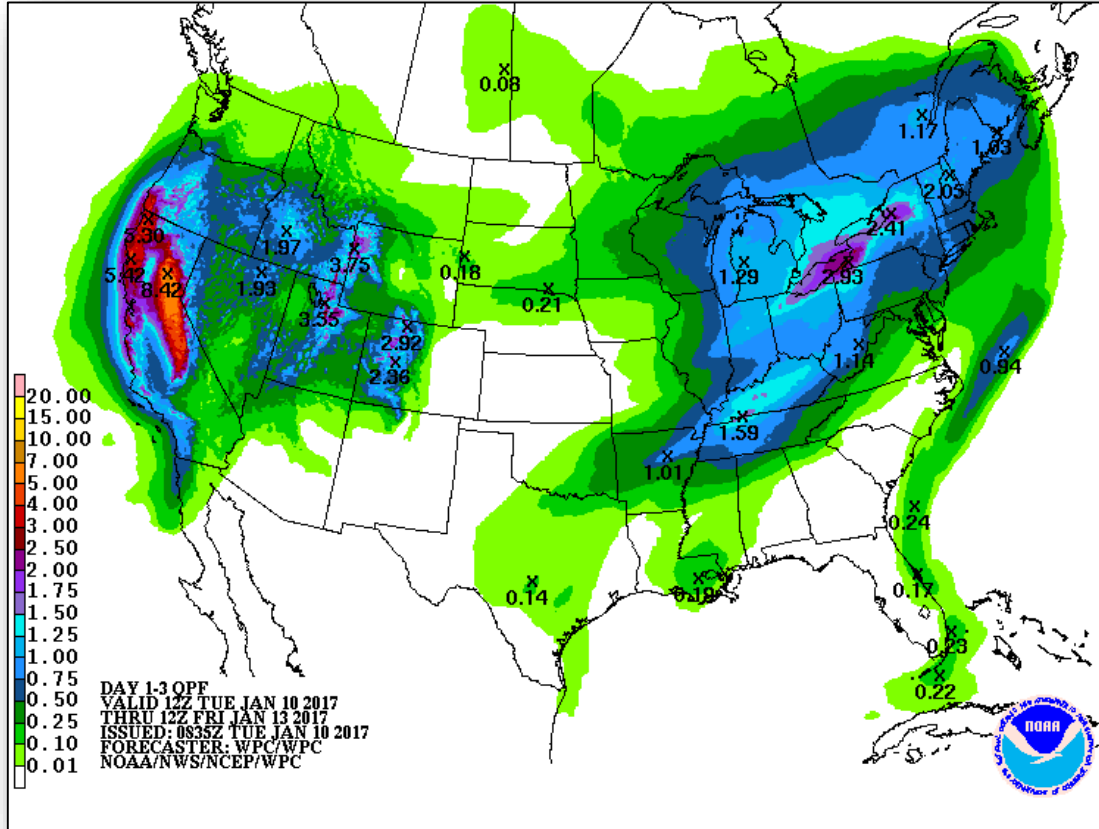




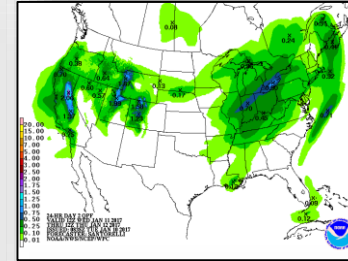
# Precipitation Forecast – Days 1-3



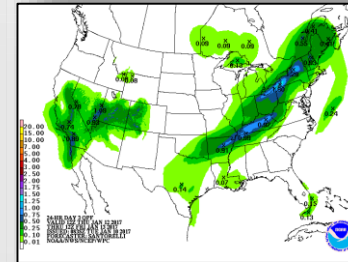
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Day 1



Day 2

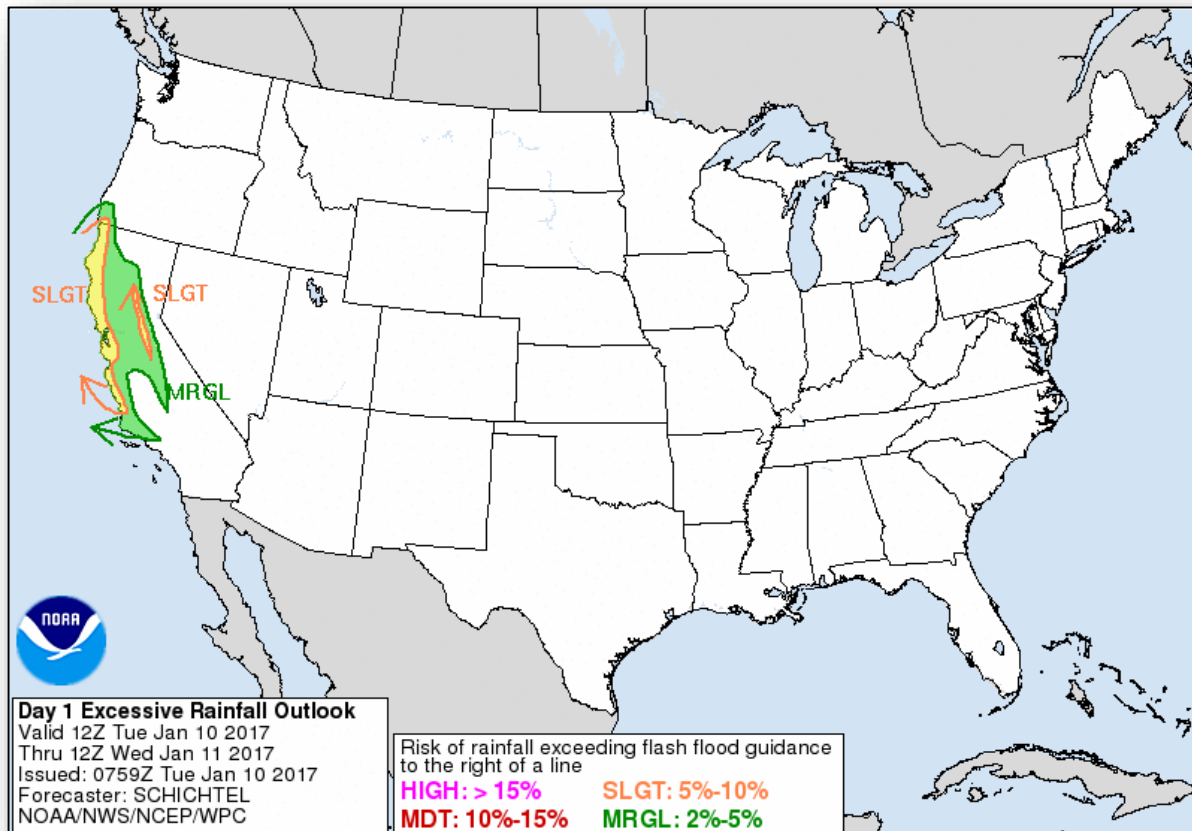


Day 3

# Flash Flood Potential



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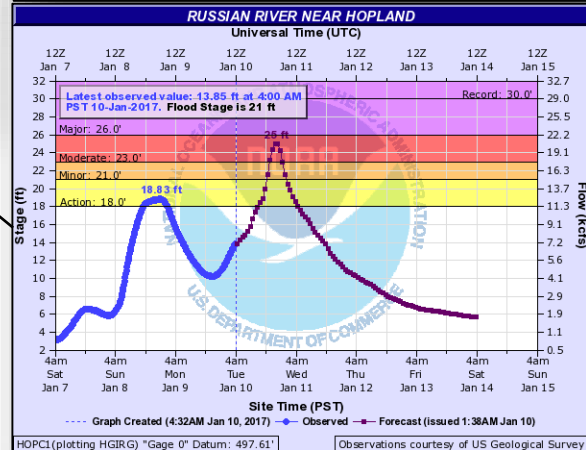
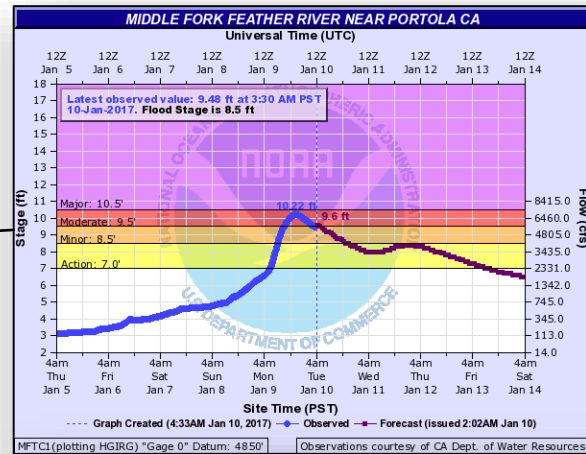
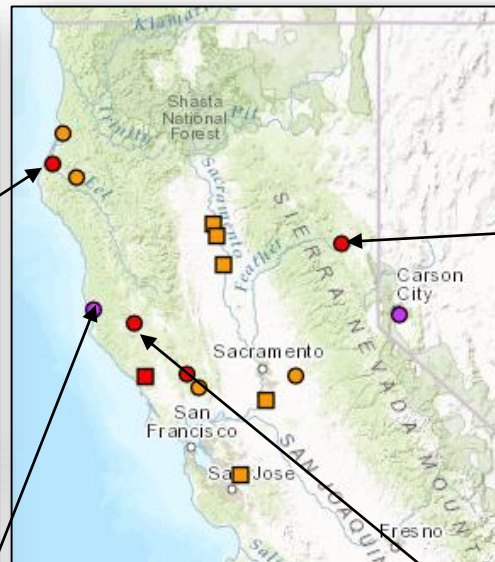
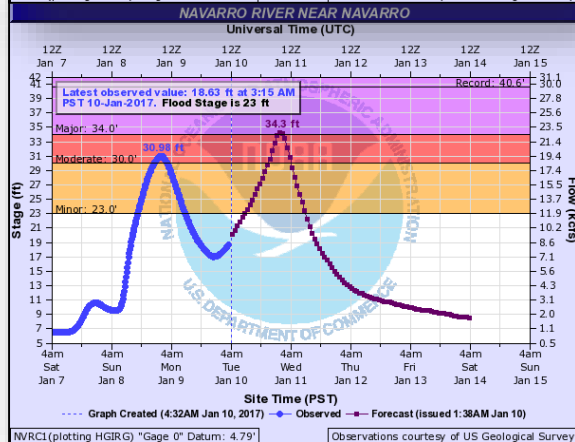
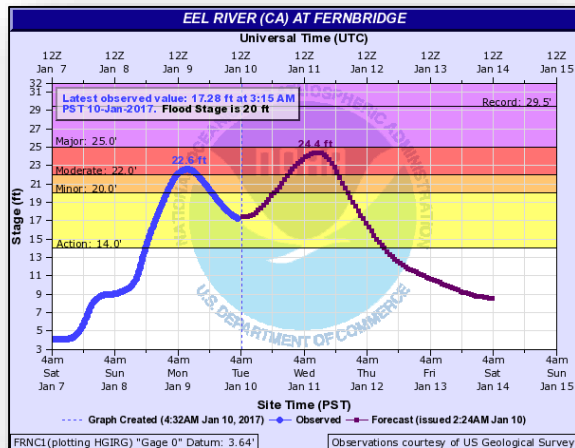




# River Flooding – CA



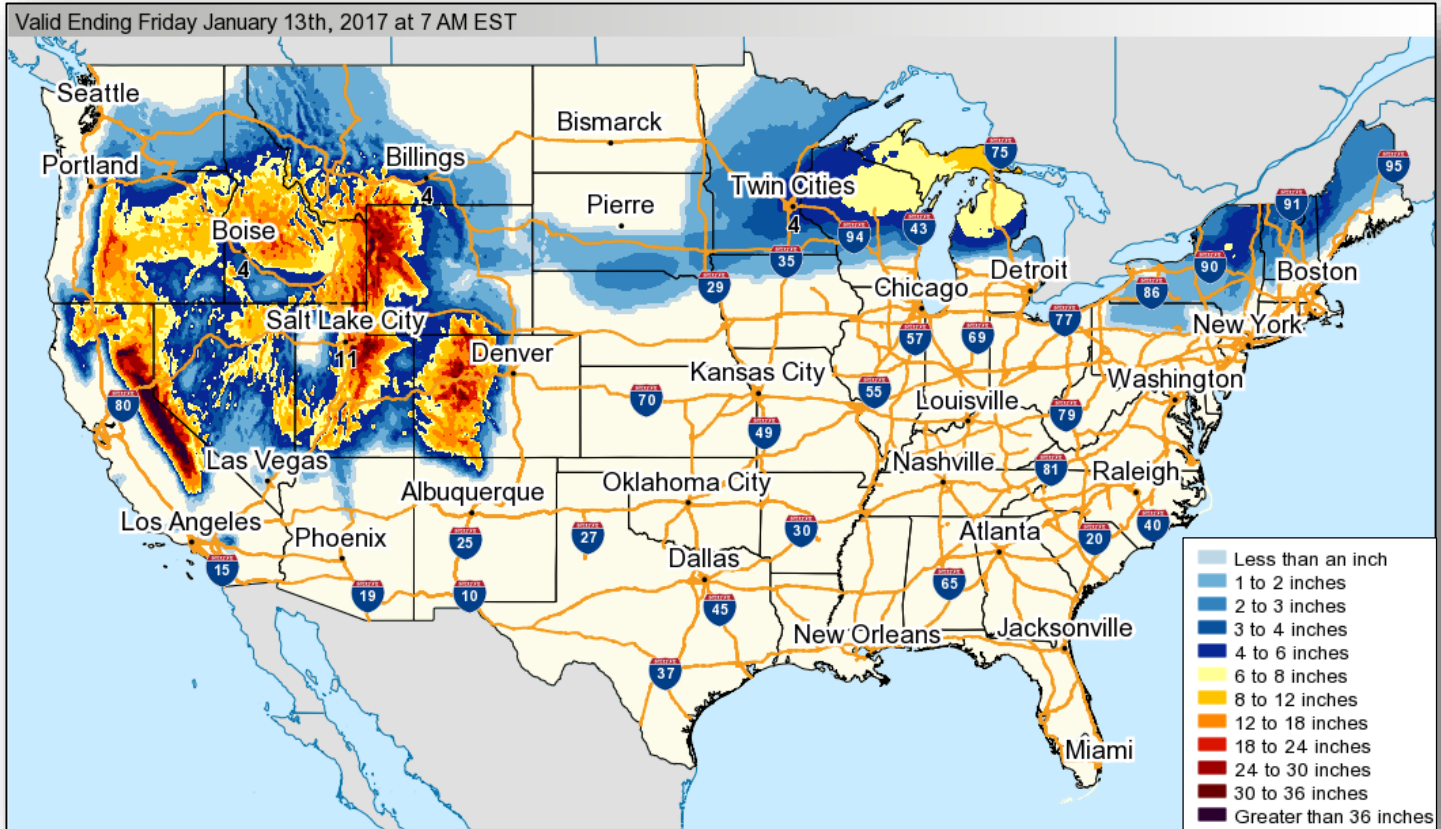
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# Forecast Snowfall – Days 1-3



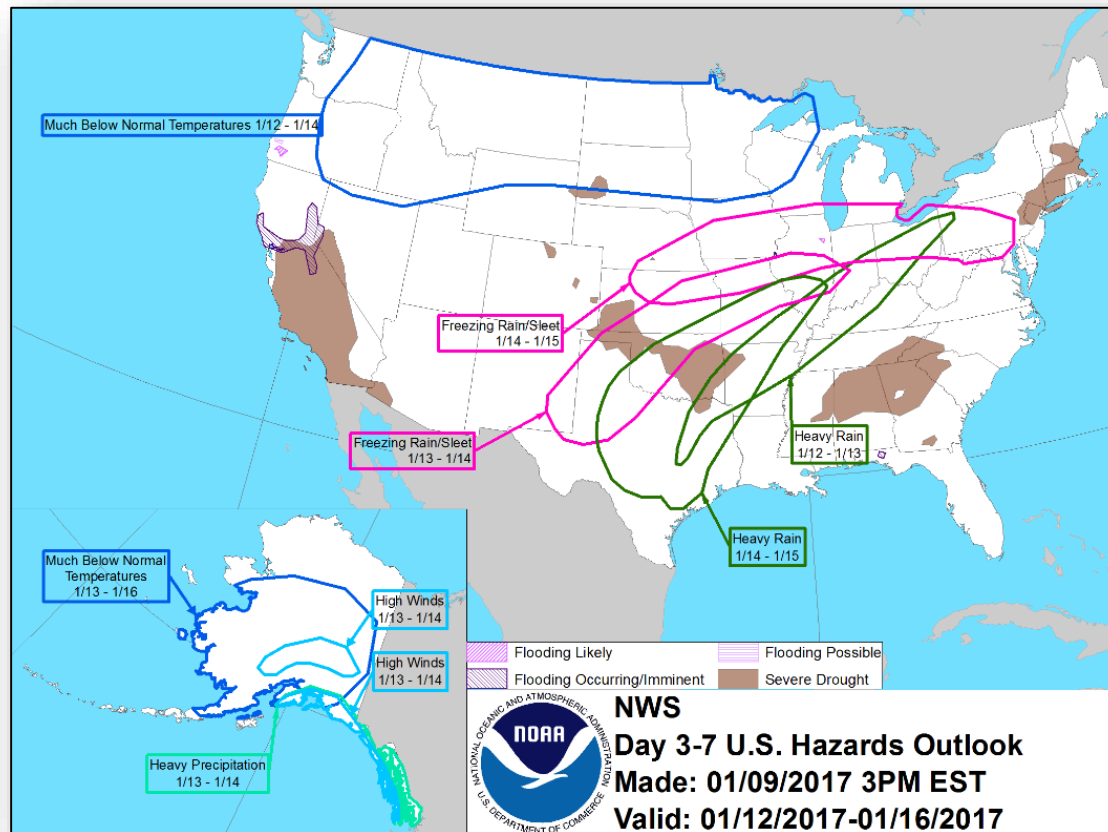
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# Hazards Outlook – Jan 12-16



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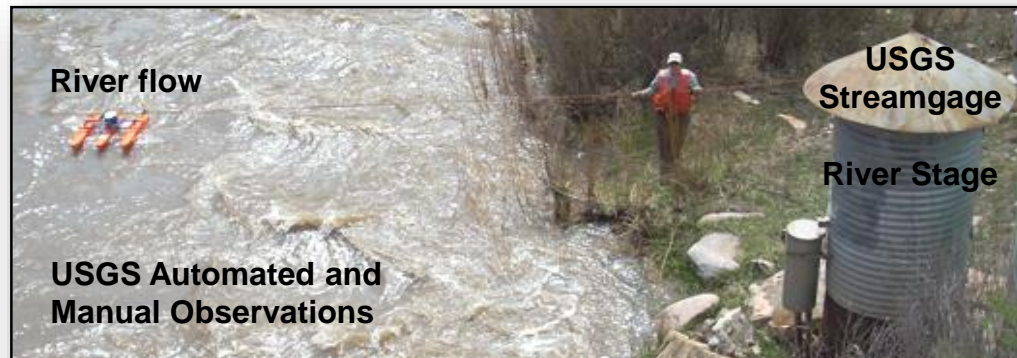
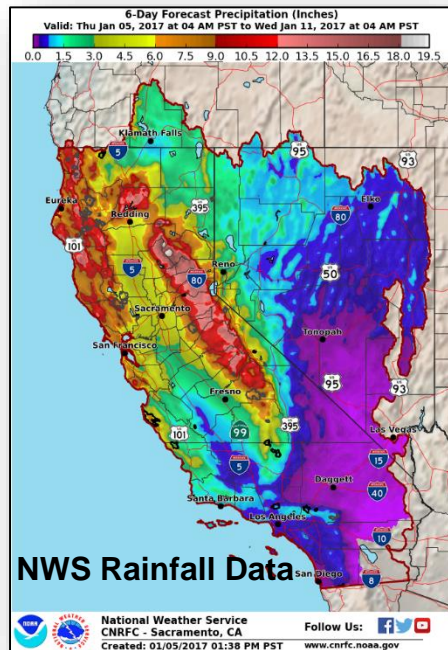


# Streamgaging and Forecasting Linkage

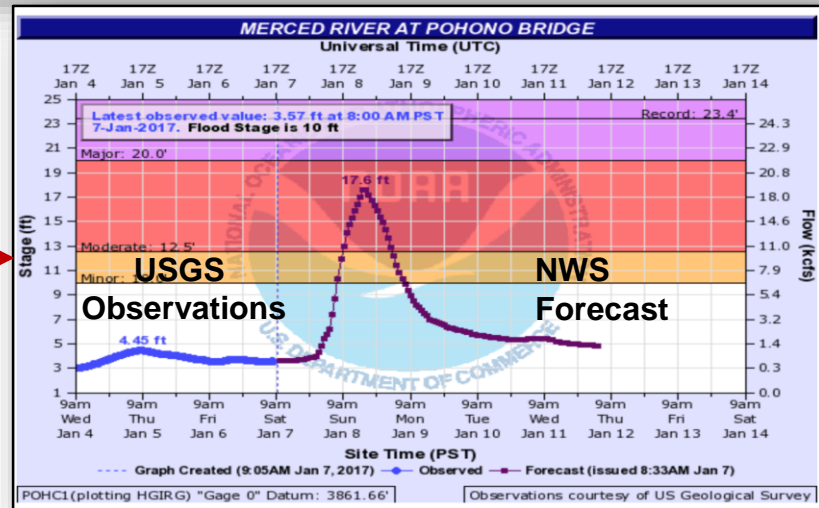


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- Forecast rainfall
- Estimate runoff
- Simulate river flows
- Convert river flows to river stage



Rainfall-Runoff Model



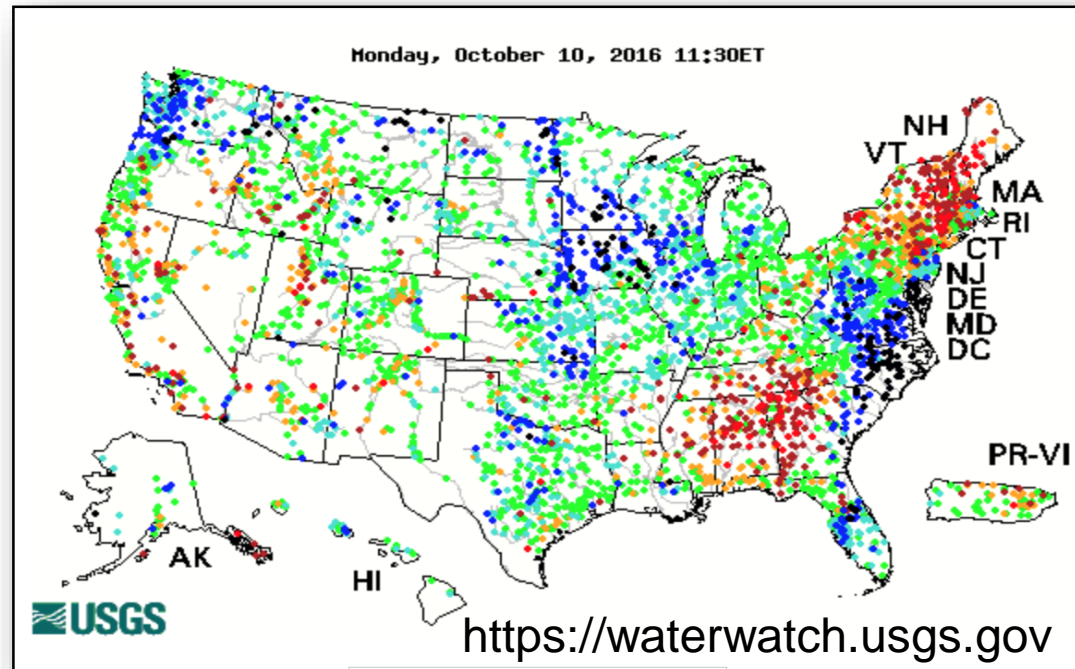


# USGS Streamgauge Network



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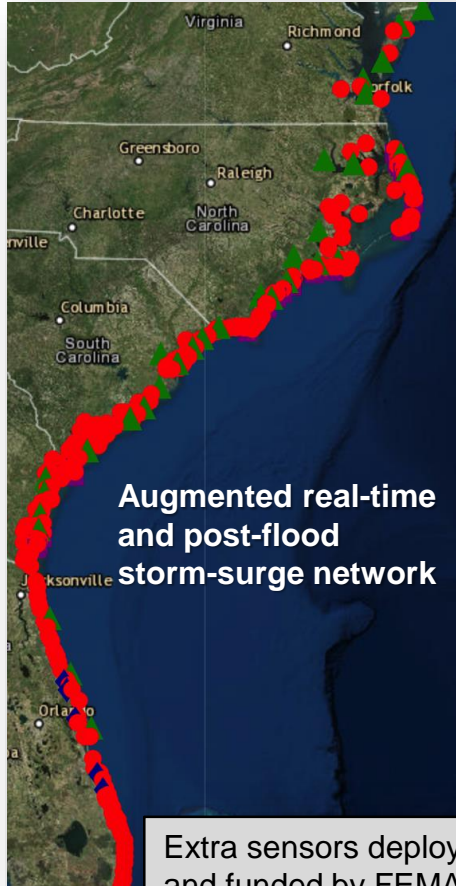
- **8,100 sites; all real-time**
  - Consistent, high quality
  - Monitor floods to droughts
- **3,400 support NWS forecasts**
- **1,200 support USACE flood control operations**
- **Supports the FEMA Mission**
  - Approx. 1/2 of FEMA floodplain maps based on USGS data from streamgages
  - USGS streamgauge data support Disaster Declaration process (extent, magnitude, frequency)
- **Supports Critical Infrastructure**
  - Design, permitting, and operation of thousands of water- and waste-water treatment plants, irrigation works, power plants, etc.



## Funding is Cooperative and Site Specific

USGS has over 850 Federal, State, and Local partners whose funding and collaboration supports the operation of the USGS Streamgaging Network

# USGS Event-Driven Posture



Extra sensors deployed for Hurricane Matthew and funded by FEMA Mission Assignments

- **Streamgage Network Operations (Every day)**
  - Streamflow data supports national water security and partners
- **Rapid Deployment Streamgages**
  - Provides temporary real-time STAGE data for critical locations
- **Non-transmitting stage sensors**
  - Coastal storm surge, river flooding, dam breaks
  - Provides post-event calibration data for modeling
- **Flood documentation**
  - High-water mark flagging and surveying
  - Post-flood "indirect measurement"
  - Inundation mapping computations
  - Supports accurate damage assessment and adaptive planning days after flood
  - Facilitates flood-insurance map verification
- **Flood-frequency calculations**
  - Essential for bridge, dam, levee design and repair/replacement

<https://water.usgs.gov/floods/FEV>



# Joint Preliminary Damage Assessments



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Region	State / Location	Event	IA/PA	Number of Counties		Start – End
				Requested	Completed	
IV	GA	Severe storms, straight-line winds and tornadoes January 2-3, 2017	IA	1	0	1/11-TBD
			PA	8 (+2)	0	1/11-TBD
X	AK*	Flooding, persistent erosion, & permafrost degradation January 1, 2006 and continuing	IA	1	0	12/29-TBD
			PA	1	0	12/29-TBD
	OR	Freezing rain, ice, snow and flooding December 14, 2016 and continuing	IA	0	0	N/A
			PA	2	0	1/9-TBD

*\*PDA's are for the Newtok Village and include the relocation of the Yupik Tribe (Pop 350). Due to weather and access, the PDA's are assessed remotely from the RX FRC in coordination with the Newtok Village*

# Disaster Requests & Declarations



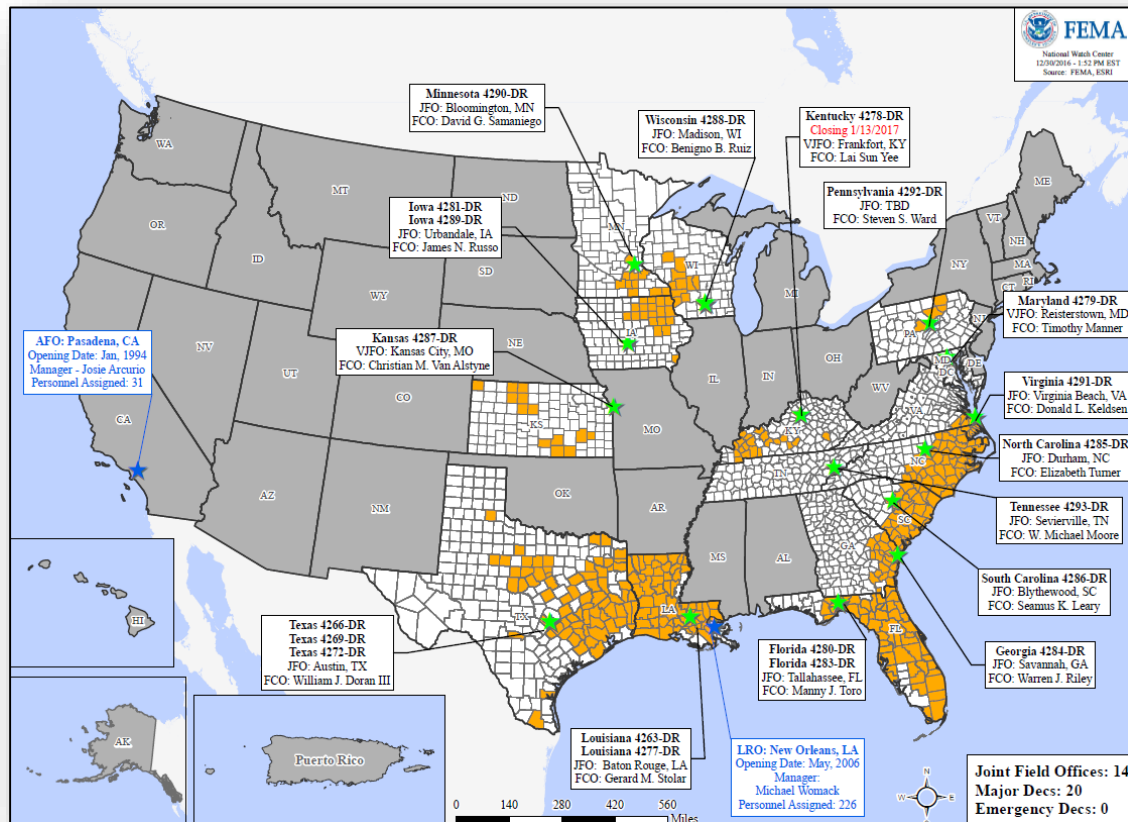
**FEMA**

Declaration Requests in Process		Requests APPROVED (since last report)	Requests DENIED (since last report)
1	Date Requested	0	0
Newtok Village (Yupik Tribe, Bethel Borough, AK) – DR flooding, persistent erosion, and permafrost degradation	December 24, 2016		

# Open Field Offices



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# Readiness – Deployable Teams and Assets



FEMA

Resource	Status	Total	FMC Available		Partially Available	Not Available	Detailed, Deployed, Activated	Comments	Rating Criteria																				
National IMAT		3	2	66%	0	0	1	East 1 to LA (Exercise: Jan 9-12) remains deployable East 2 to LA (DR-4277)	Green: >3 Teams Available Yellow: 1 - 2 Teams Available Red: 0 Teams Available  <i>N-IMAT red if 50% of Section Chiefs or Team Leader unavailable for deployment</i>																				
Regional IMAT		13	7	53%	0	0	6	<u>Deployed:</u> Region III to VA (DR-4291) Region IV-1 to NC (DR-4285) Region V to MN (DR-4290) Region VI-1 to TN (DR-4293) Region VII to IA (DR-4281) Region IX-1 to NV (Winter Storms)	Green > 6 Teams Available Yellow: 4 - 6 Teams Available Red: 0 - 4 Teams Available  <i>R-IMAT also red if TL or Ops / Log Chief is unavailable &amp; has no qualified replacement</i>																				
FCO		35	6	17%	0	3	26		OCD Readiness <table><tr><td>FCO</td><td>Green</td><td>Yellow</td><td>Red</td></tr><tr><td>Type 1</td><td>3+</td><td>2</td><td>1</td></tr><tr><td>Type 2</td><td>4+</td><td>3</td><td>2</td></tr><tr><td>Type 3</td><td>4+</td><td>3</td><td>2</td></tr><tr><td>FDRC</td><td>3</td><td>2</td><td>1</td></tr></table>	FCO	Green	Yellow	Red	Type 1	3+	2	1	Type 2	4+	3	2	Type 3	4+	3	2	FDRC	3	2	1
FCO	Green	Yellow	Red																										
Type 1	3+	2	1																										
Type 2	4+	3	2																										
Type 3	4+	3	2																										
FDRC	3	2	1																										
FDRC		11	3	27%	0	0	8																						
US&R		28	28	100%	0	0	0		Green: >66% Available Yellow: 33% - 66% Available Red: <33% Available																				
MERS		18	18	100%	0	0	0		Green: >66% Available Yellow: 33% - 66% Available Red: <33% Available																				

# Readiness – National and Regional Teams



**FEMA**

Resource	Status	Total	FMC Available		Partially Available	Not Available	Status	Comments	Rating Criteria
NWC		5	5	100%	0	0	Watch/Steady State		<ul style="list-style-type: none"> <li>• Green = FMC</li> <li>• Yellow = PMC</li> <li>• Red = NMC</li> </ul>
NRCC		2	2	100%	0	0	Not Activated		
HLT		1	1	100%	0	0	Not Activated		
RRCCs		10	10	100%	0	0	Activated	Region IX at Level II (day shift)	
RWCs/MOCs		10	10	100%	0	0	Activated	Region IX Enhanced Watch (night shift only)	

# MERS Availability Summary



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## MERS Availability Summary

as of 1/9/2017

Legend	> 66%	< 66% & > 33%	< 33%
	Personnel Availability	Equipment Availability	% Deployed
Bothell MERS	94%	100%	0%
Denton MERS	91%	69%	0%
Denver MERS	98%	87%	0%
Frederick MERS	87%	100%	0%
Maynard MERS	78%	100%	0%
Thomasville MERS	90%	92%	0%
Disaster Emergency Communications Division			
Overall MERS Availability	86%	91%	4%



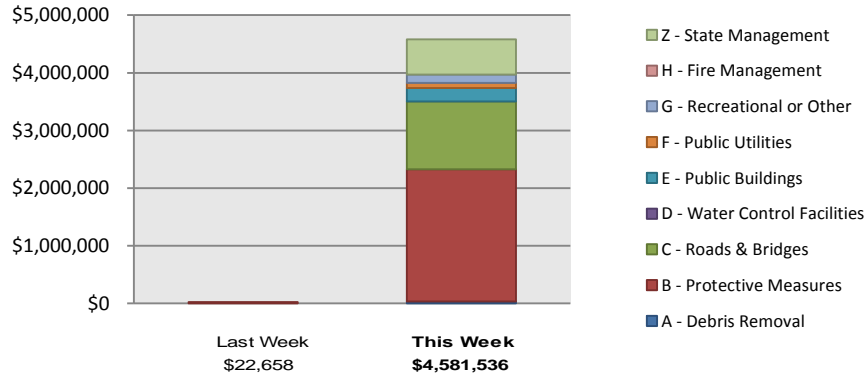
# Public Assistance Grant Program



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PA Project Worksheets Obligated in past week, as of 01/09/17 at 1500 EDT										
PA Category	Emergency Work		Permanent Work					H - Fire Management	Z - State Management	Total
	A - Debris Removal	B - Protective Measures	C - Roads & Bridges	D - Water Control Facilities	E - Public Buildings	F - Public Utilities	G - Recreational or Other			
Number Of PWs Obligated	1	72	22	0	11	2	7	0	3	118
Federal Share Obligated	\$32,837	\$2,291,035	\$1,182,030	\$0	\$229,814	\$90,152	\$144,909	\$0	\$610,759	\$4,581,536

## Public Assistance Obligated per Category In the Past 2 Weeks – 12/27/2016 through 01/09/2017



## PA Highlights

- None

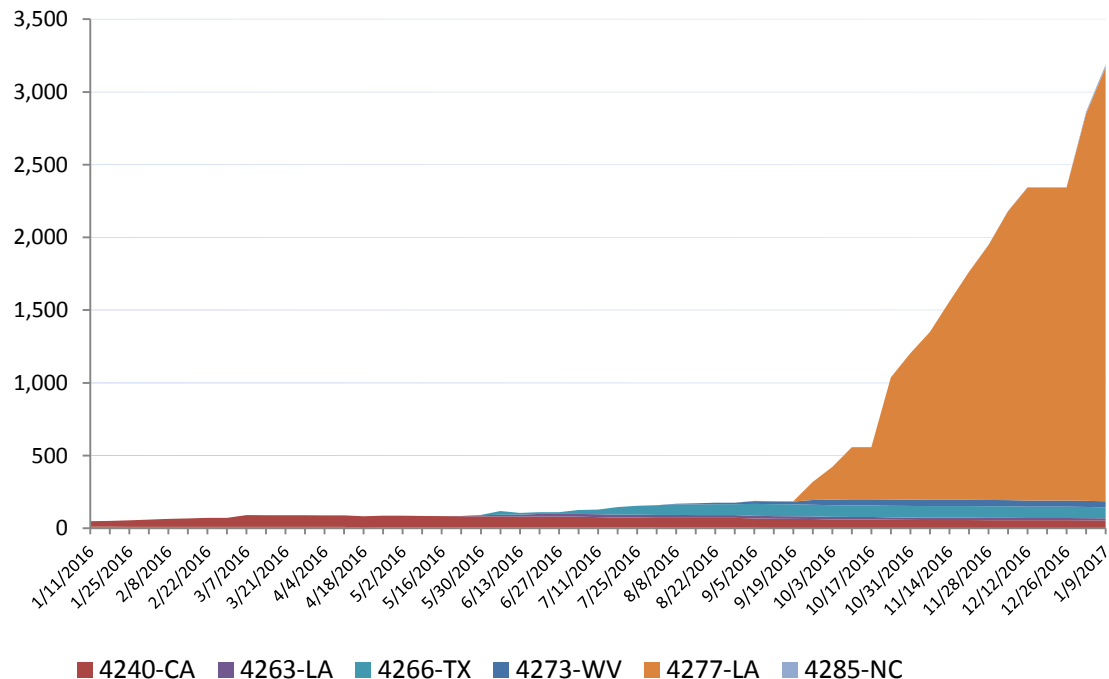
# Direct Housing



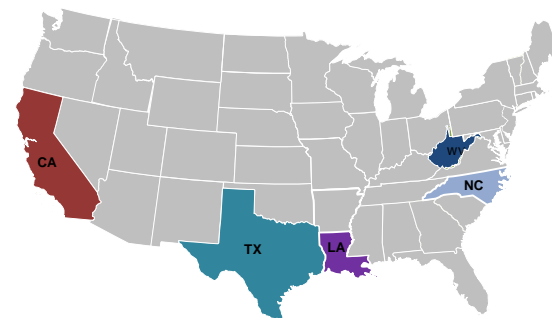
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## Total Households in FEMA Direct Housing per State

Past Year per Week, 1/11/2016 – 1/9/2017, There are currently **3,186** Households Occupying **3,186** Temporary Units



DR	IA Declaration Date	Program End Date	Current # of Households in Direct Housing (Weekly Change)
4240-CA	9/22/2015	3/22/2017	55
4263-LA	3/13/2016	9/13/2017	14 (-1)
4266-TX	3/19/2016	9/19/2017	75 (-2)
4273-WV	6/25/2016	12/26/2017	42
4277-LA	8/14/2016	2/14/2018	2984 (+322)
4285-NC	10/10/2016	4/10/2018	16(+3)



States with Currently Occupied Units

# NPSC Activity



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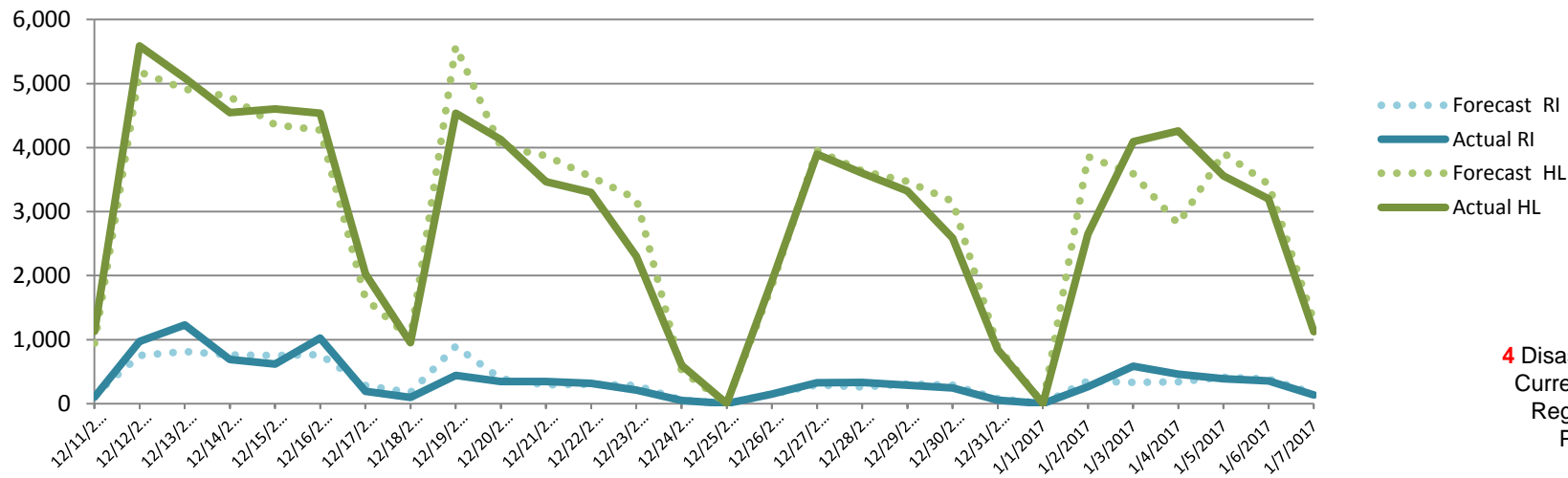
## NPSC Call Activity in the Past Week

01/01/2017 through 01/07/2017

Call Type	Projected Calls	Actual Calls	Average Speed of Answer	Maximum Delay Time
Registration Intake:	1,988	2,192	:21	20:52
Helpline:	18,895	18,880	:21	10:35
Combined:	20,883	21,072	:21	20:52

## NPSC Call Forecasting and Actual Calls Over the Past 4 Weeks

12/11/2016 through 01/07/2017



# Individual Assistance Activity

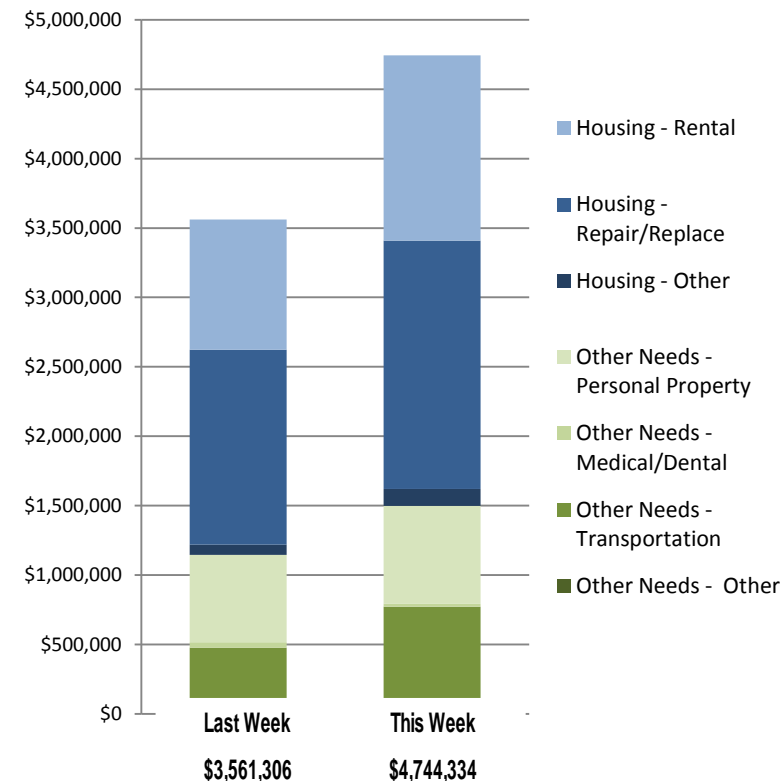


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## Individuals and Households Program Activity As Of: 1/9/17

## IHP Approved per Category in the Past 2 Weeks – 12/26/2016 through 1/9/2017

	Individuals and Households Program Activity As Of: 1/9/17				
		In Past 7 Days		Cumulative	
		Applicants Approved	Amount Approved	Applicants Approved	Amount Approved
Open Registration Period	4285-NC Declared 10-10-2016 End Of Reg Period 01-09-2017				
	Housing Assistance	314	\$930,401.99	18,389	\$60,963,969.99
	Other Needs Assistance	133	\$427,972.41	17,501	\$26,836,824.55
	Total IHP	\$1,358,374.40		\$87,800,794.54	
	Average IHP			\$3,140	
	Total Max Grants			138	
	4290-MN Declared 11-02-2016 End Of Reg Period 01-30-2017				
	Housing Assistance	62	\$180,844.51	483	\$1,814,736.98
	Other Needs Assistance	21	\$21,783.96	166	\$144,772.69
	Total IHP	\$202,628.47		\$1,959,509.67	
	Average IHP			\$3,761	
	Total Max Grants			0	
	4291-VA Declared 11-02-2016 End Of Reg Period 01-03-2017				
	Housing Assistance	72	\$209,390.46	1,993	\$7,491,545.66
	Other Needs Assistance	41	\$90,277.62	832	\$1,653,246.12
	Total IHP	\$299,668.08		\$9,144,791.78	
	Average IHP			\$4,181	
	Total Max Grants			5	
	4293-TN Declared 12-15-2016 End Of Reg Period 02-13-2017				
	Housing Assistance	53	\$131,750.00	288	\$1,215,119.71
	Other Needs Assistance	49	\$282,665.62	167	\$948,510.22
	Total IHP	\$414,415.62		\$2,163,629.93	
	Average IHP			\$7,212	
	Total Max Grants			26	
Other IHP Active	16 Declarations IHP Programmatically Open - Closed Registration *				
	Housing Assistance	586	\$1,794,063.96		
	Other Needs Assistance	248	\$675,183.11		
	Total IHP	\$2,469,247.07			
	Total IHP Approved in Past Week	\$4,744,333.64			





# FEMA

**FEMA's mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards.**