

Integrating GI/LID into Hazard Mitigation Plans (HMPs)

# We Need Heat Mitigation Funded

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## Fiscal Year 2019 Grants for Pre-Disaster Mitigation and Flood Mitigation Assistance



# Do we have approved Hazard Mitigation Plans?

That spell out dedicated Heat Mitigation Actions

**TASK 1** Determine the Planning Area and Resources

**TASK 2** Build the Planning Team

**TASK 3** Create an Outreach Strategy

**TASK 4** Review Community Capabilities

**TASK 5** Conduct a Risk Assessment

**TASK 6** Develop a Mitigation Strategy

**TASK 7** Keep the Plan Current

**TASK 8** Review and Adopt the Plan

**TASK 9** Create a Safe and Resilient Community

FEMA (2013) Local Mitigation Planning Handbook

## Goal

Minimize new development in hazard-prone areas.

## Objective

Reduce the number of vulnerable structures in flood hazards areas.

## Actions

Amend zoning ordinance to permit only open space and uses within floodplains.

■ Central/ Eastern Drought/ Heatwave	1980-06-01	1980-11-30	Central and eastern U.S. drought/heat wave caused damage to agriculture and other related industries. Combined direct and indirect deaths (i.e., excess mortality) due to heat stress estimated at 10,000.	\$33.1 <small>CI</small>	1,260
Sur 198 ■ Western/ Central/ Southeast Drought/ Heatwave †	2000-03-01	2000-11-30	Western/Central/Southeast Drought/Heatwave. The states impacted include AZ, AL, AR, CA, CO, FL, GA, IA, KS, LA, MS, MT, NE, NM, OK, OR, SC, TN, and TX.	\$7.6 <small>CI</small>	140
Spring-Fall 2000 ■ Southern Plains/ Southwest Drought & Heat Wave †	2011-03-01	2011-08-31	Drought and heat wave conditions created major impacts across Texas, Oklahoma, New Mexico, Arizona, southern Kansas, and western Louisiana. In Texas and Oklahoma, a majority of range and pastures were classified in "very poor" condition for much of the 2011 crop growing	\$13.9 <small>CI</small>	95
Spring-Summer 2011 ■ U.S. Drought/ Heatwave † 2012	2012-01-01	2012-12-31	The 2012 drought is the most extensive drought to affect the U.S. since the 1930s. Moderate to extreme drought conditions affected more than half the country for a majority of 2012. The following states were affected: CA, NV, ID, MT, WY, UT, CO, AZ, NM, TX, ND, SD, NE, KS, OK, AR, MO, IA, MN, WI, IL, IN, OH, PA, VA, NC, SC, TN, MS, AL, GA, FL, HI.	\$33.9 <small>CI</small>	123
■ Western/ Plains Drought/ Heatwave † Spring-Fall 2013	2013-03-01	2013-11-30	The 2013 drought slowly dissipated from the historic levels of the 2012 drought, as conditions improved across many Midwestern and Plains states. However, moderate to extreme drought did remain or expand into western states (AZ, CA, CO, IA, ID, IL, KS, MI, MN, MO, ND, NE, NM, NV, OK, OR, SD, TX, UT, WA, WI, WY). In comparison to 2011 and 2012 drought conditions the US experienced only moderate crop losses across the central agriculture states.	\$11.6 <small>CI</small>	53

**0**

**presidential  
disasters have been  
declared due to heat**

**0**

**stand-alone heat  
hazard mitigation  
projects have been  
funded**

# How do we change that?

## Heat Mitigation Actions

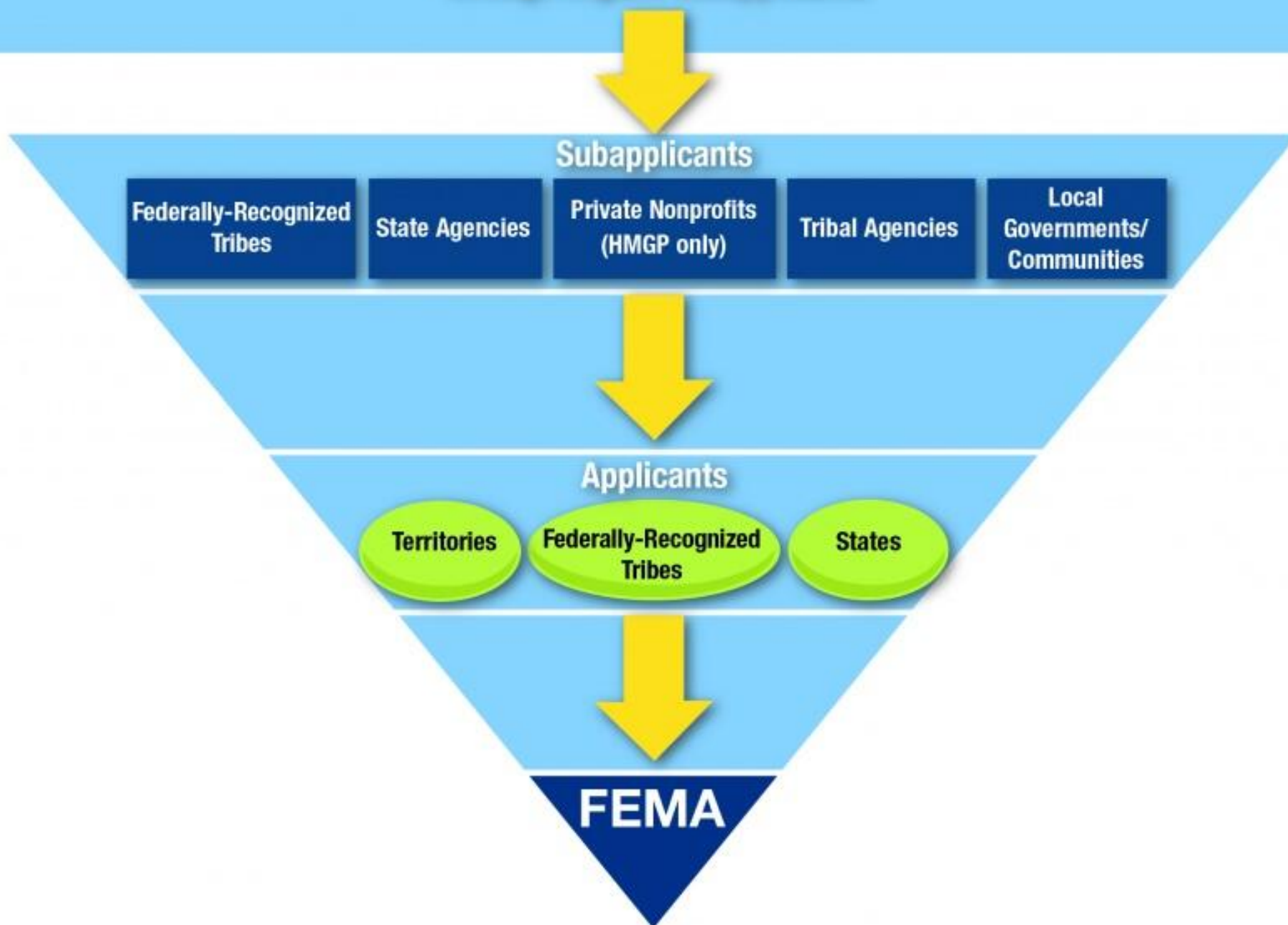
### What we can do:

- Raise awareness
- Develop a suite of heat mitigation actions  
(Source: ASU Hondula/Kurtz)
- Incorporate dedicated heat mitigation actions into HMPs

### What we need to do: Pave the way for FEMA approval

- Get over BCA hurdle
- Apply for heat mitigation funding (PDM/BRIC)

Individual homeowners, businesses, and private nonprofits may apply for funding through eligible subapplicants





# Spatial Hazard Events and Losses Database for the United States

[Home](#) **SHELDUS** [Register/Log in](#) [How to](#) [Reports](#) [Community](#) [Metadata](#) [FAQ](#) [Contact](#)



Log in

sheldus.org

Arizona data are free

SHELDUS™ 18.0 is HERE!

Released November 18, 2019

Photo by Luis Sinco/ Los Angeles Times- Jan. 9, 2018

# Thank you!

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