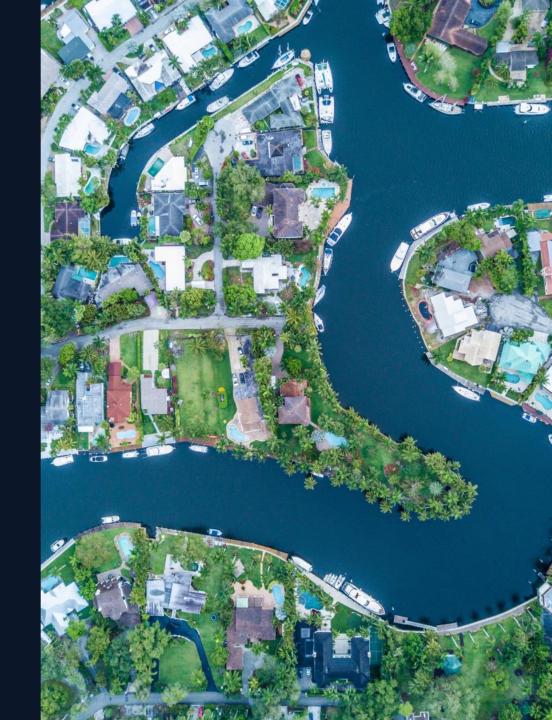


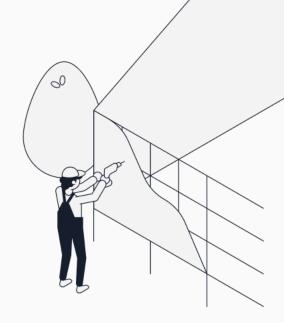
#### Floodplain Management Challenges in Arid Rural Idaho

September 24, 2024



#### Housekeeping

- This presentation is being recorded
- The recording and presentation will be shared via email and posted on our blog
- Use the Q+A or the Chat to ask questions
- CFMs: Complete the post-attendance survey to receive your CEC. The CEC Certificate will be sent via email to you (and the list will be sent to ASFPM) next week





#### Agenda

- 1 Introduction
- 2 Floodplain Management Challenges in Arid Rural Idaho
- 3 **Q&A**



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GOV. PARTNERS

# We work with over 100 of the most at-risk communities throughout the U.S.



FDEM Florida



Cedar Rapids Iowa



Harris County Texas



Tampa Florida



Jefferson Parish Louisiana



Alexandria Virginia



Kitty Hawk North Carolina



Las Cruces New Mexico



Georgetown County
South Carolina



Norfolk Virginia



Leon County Florida



Calvert County Maryland



Peterborough New Hampshire



Orting Washington



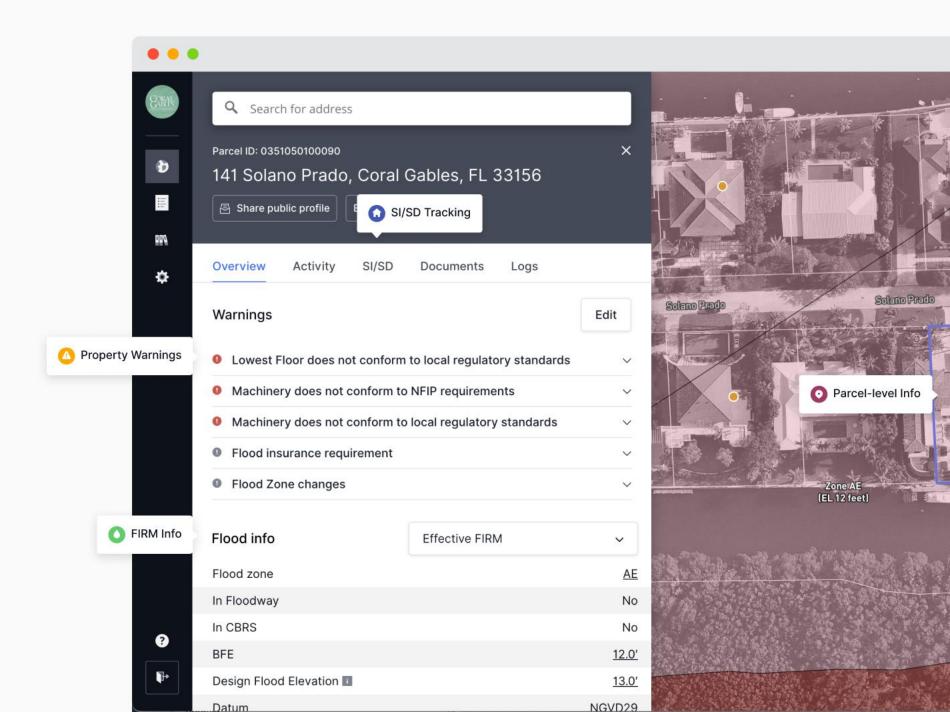
Hoboken New Jersey



Clearwater Florida

PRODUCT

## Our geospatial dashboard drives per-property insight.



#### Agenda

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Maureen O'Shea, CFM
Floodplain Specialist
Idaho Department of Water Resources

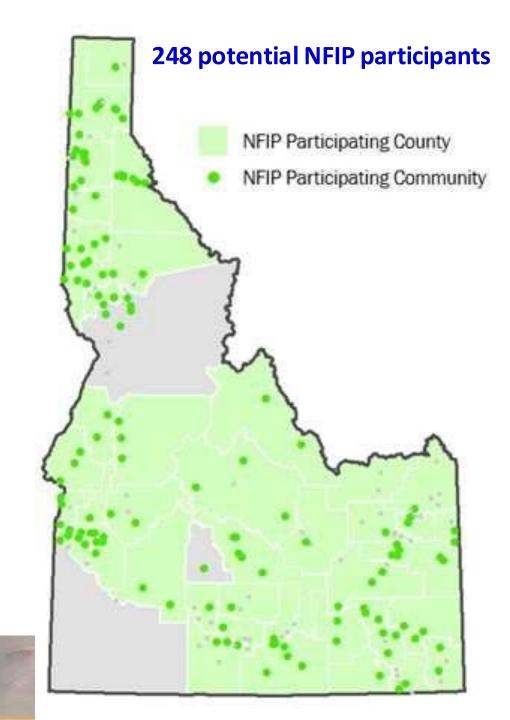


# Quirky Challenges of Floodplain Management in Arid Rural Idaho

By: Maureen O'Shea, CFM

#### **Idaho Communities**

```
1,990,456 Population 2024
      2,500,000 cows
44 Counties
      41 participate
199 Cities
      132 participate
5 Tribes
      0 participate
Total 173 NFIP Communities
      3 emergency phase
      70% participate
```



#### **NFIP Non-Participating Communities**

Crouch

**Dubois** 

**Franklin** 

**Grand View** 

Hamer

Hauser

**Idaho County (W)** 

**Lincoln County (W)** 

Menan

**Placerville** 

**Plummer** 

Riggins (W)

St. Charles

Weippe

**White Bird** 

3 have withdrawn (W)

•12 chose not to adopt the FIRMs/FBFMs (70's - 90's)

•5 tribes & 55 other communities have never been mapped nor joined the NFIP

#### Idaho Statewide NFIP Insurance 5/13/2024

NFIP Coverage	\$1,494,827,000
NFIP Annual Premiums	\$5,761,716
NFIP Total Policies	5,366
NFIP Average Premium	\$1,073.75
NFIP Claims since 1978	\$10,212,976
NFIP Total Claims since 1978	1,097
NFIP Total Paid Claims since 1978	797
Average NFIP Loss	\$12,814.27

#### **Idaho Flood Disasters**

- 23 Presidentially Declared Disasters since 1956
  - (68 yrs./23= ~every 3 yrs.)
- 17 Presidentially Declared Disasters since 1968 & the NFIP
- January 1997 Last Individual Assistance (IA) disaster in ID
- Fire Management Assistance Grant (FMAGs) are more common & lead to increased outreach for "Flood After Fire"

Presidential Declarations for FLOOD		
Disaster	Date	Incident Description
4443	6/12/2019	Severe Storms, Flooding, Landslides, & Mudslides
4342	10/7/2017	Extreme flooding
4333	8/27/2017	Flooding, Landslides, & Mudslides
4313	5/18/2017	Severe Storms, Flooding, Landslides, & Mudslides
4310	4/21/2017	Severe Winter Storms & Flooding
1987	5/20/2011	Flooding, Landslides, & Mudslides
1927	7/27/2010	Severe Storms & Flooding
1781	7/31/2008	Flooding
1630	2/27/2006	Severe Storms & Flooding
1592	7/6/2005	Heavy Rains & Flooding
1177	6/13/1997	Flooding
1154	1/4/1997	Severe Storms/Flooding (Last IA Disaster)
1102	2/11/1996	Storms/Flooding
697	2/16/1984	Ice Jams, Flooding
505	6/6/1976	Dam Collapse
415	1/25/1974	Severe Storms, Snowmelt, Flooding
324	3/2/1972	Severe Storms, Extensive Flooding
186	12/31/1964	Heavy Rains & Flooding
143	2/14/1963	Floods
120	2/14/1962	Floods
116	6/26/1961	Floods
<b>76</b>	5/27/1957	Floods

4/21/1956

55

**Floods** 

#### **Snake River**



1,078 miles through Idaho

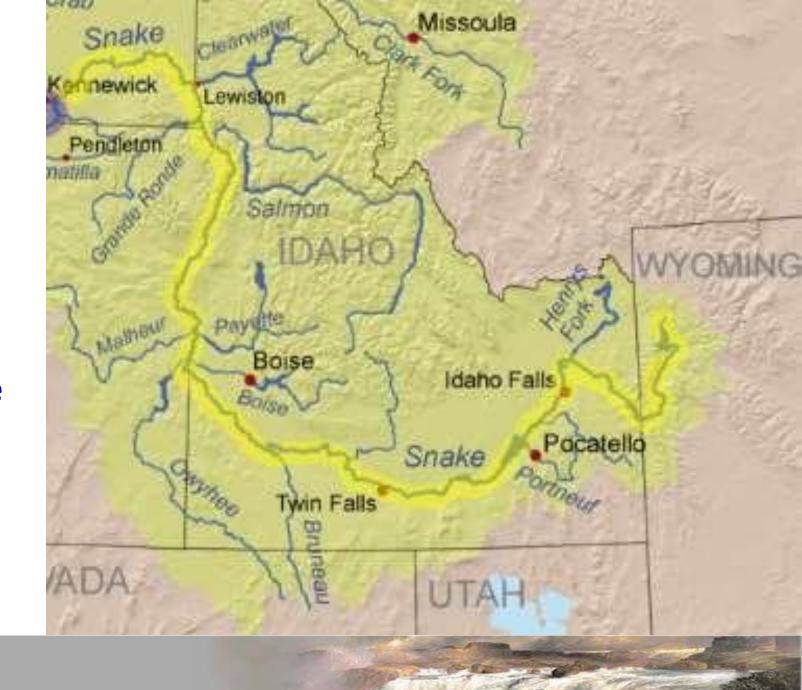
Important source of irrigation water for potatoes, beef cattle, hay, wheat, milk, barley, & sugar beets



Water Resources

#### **Snake River**

- Largest tributary to the Columbia River
- Average discharge over 54,000 CFS
- Most is mapped as A Zone w/o BFEs



#### **Snake River**

- Originates in NW Wyoming, arcs across southern ID before entering WA & flowing west to the Columbia River.
- Much of the area along the river, within a few miles of its banks, is irrigated farmland.
- There are 15 hydropower dams, three on the ID/OR border.
- Produces >1,100 megawatts of electricity enough for the city of Seattle — & the water withdrawals irrigate 3.8 million acres.

#### **Irrigation Law from 1899**

**Idaho Code 42-1202** Maintenance of Ditch The owners or persons in control of any ditch, canal or conduit used for irrigating purposes shall maintain the same in good order & repair, ready to deliver water by the first of April in each year, & shall construct the necessary outlets in the banks of the ditches, canals or conduits for a proper delivery of water to persons having rights to the use of the water.

History: [(42-1202) 1899, p. 380, sec. 16; reen. R.C. & C.L., sec. 3307; C.S., sec. 5655; I.C.A., sec. 41-1102.]





#### FIRMs & FBFMs

**12 Counties FEMA digitized** 

11 Counties never mapped

Bear Lake Co.

Camas Co.

Caribou Co.

Lewis Co.

Oneida Co.

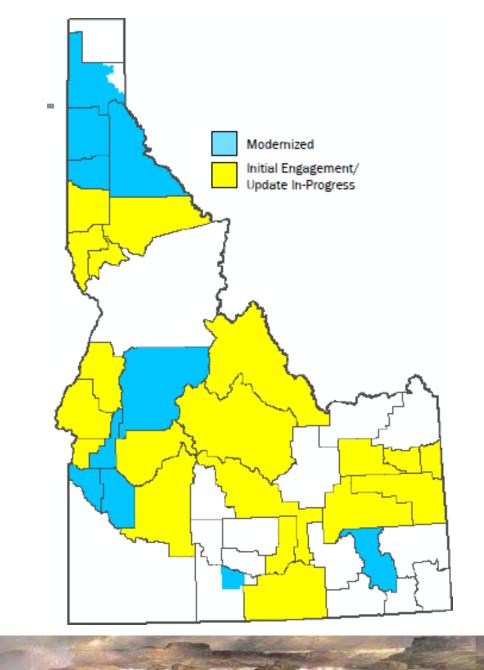
Owyhee Co.

Power Co.

**Tribes/Tribal Lands (5)** 

19 Counties in some stage of the

**Risk MAP process** 



#### FIRMs & FBFMs

- 32 counties still use paper maps
- IDWR with Silver Jackets digitized about half the non-digitized counties
- IDWR obtained a CTP grant to digitize the remaining communities
- FIRMs/FBFMs housed on IDWR's website

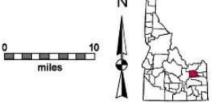
https://maps.idwr.idaho.gov/agol/IdahoFloodHazard/



## FIRMs (Map Mod) – Jefferson Co.

- 23 of the FIRMs are FEMA digitized
  - Effective 2008
  - •In 1988 Datum
  - Only Dry Bed & the Heise levee were re-studied
- 15 of the FIRMs are paper maps
  - Effective 1988
  - •In 1929 Datum
- Talk about a CHALLENGE!!







## FIRM/FBFM MAPPING UPDATES

- Underserved & disadvantaged rural communities lack the resources (staff & funds) & lack FPM technical knowledge & understanding.
- These communities rely on USACE, Silver Jackets, FEMA CTP, & FEMA Risk Analysis Branch to assist in providing updated mapping.
- Idaho NFIP Communities wonder why FEMA's mapping process takes so long.

## Risk MAP Projects (19 in Process)

Project Area	Next Major Milestone	Milestone Date	<b>Discovery Date</b>
<b>Boise County</b>	FRR Comment Resolution	7/31/2024	2/1/2011
Minidoka County	<b>Base Level Engineering Release</b>	6/30/2025	2/1/2011
Payette County	<b>Draft Map Release</b>	5/15/2024	2/1/2011
Teton County	Flood Risk Products Release	5/15/2024	4/28/2011
Blaine County (Big Wood PMR)	Flood Risk Products Release	6/30/2024	6/9/2011
Bingham County (Upper Snake)	<b>Draft Map Release</b>	7/15/2024	1/27/2015
<b>Bonneville County (Upper Snake)</b>	Draft Map Release	7/15/2024	1/27/2015
Jefferson County (Upper Snake)	Draft Map Release	7/15/2024	1/27/2015
Madison County	Draft Map Release	7/15/2024	1/27/2015
<b>Clearwater County</b>	Preliminary Map Release	6/30/2024	1/26/2016
Latah County	<b>Base Level Engineering Release</b>	1/31/2025	1/26/2016
Lewis County	<b>Base Level Engineering Release</b>	10/31/2024	1/26/2016
Nez Perce County	Flood Risk Products Release	5/30/2024	1/26/2016

## Risk MAP Projects (19 in Process)

Project Area	Next Major Milestone	Milestone Date	Discovery Date
Cassia County	Base Level Engineering Release	6/30/2025	1/1/2019
<b>Custer County</b>	Project Kickoff	6/30/2024	10/1/2019
Lemhi County	Project Kickoff	6/30/2024	10/1/2019
Elmore County	Draft Map Release	10/15/2025	2/9/2022
Adams County	Draft Map Release	6/30/2025	2/10/2022
Washington County	Draft Map Release	1/30/2025	2/10/2022

## **County Populations as of 2022**

POPULATION RANGE	# OF COUNTIES
Less than 5,000	7
5,001 to 10,000	8
10,001 to 25,000	15
25,001 to 50,000	7
50,001 to 100,000	3
Greater than 100,000	4

<25,000 = 30 of 44

<50,000 = 37 of 44

## City Populations as of 2024

POPULATION RANGE	# of CITIES
Less than 5,000	163
5,001 to 10,000	9
10,001 to 25,000	13
25,001 to 50,000	6
50,001 to 100,000	5
Greater than 100,000	3

<25,000 = 185 of 199

<50,000 = 191 of 199

## **Political Makeup Constantly Changing**

- City & County elections occur every 2 years. Often half of the seated commissioners or council are new every 2 years.
  - Thus, FPM education is an ongoing challenge.
- Not only does half the elected officials change out with biennial regularity; then every four years so does the City/County Clerk.
- Sometimes staff also leave at term end, offering no continuity of FPM operations.

## Floodplain Administrator (FPA)

- These cities are usually so small many use Gmail or other free email providers for their email.
- A clerk, a treasurer, & a public works person are the usual three employees of the city. Other staff may be part-time &/or contract staff.
- These small cities/counties can never be a Master of Floodplain Management. They do less than one (1) Floodplain Development Permit per quarter, & sometimes less than one (1) per year.

#### **FPA & Other Duties as Assigned**

In the 215 community's w/a population of <25,000 the City/County Clerk often wears MANY hats.

Clerk's Office functions often include Alcohol Beverage Licensing, Alcohol Catering Permits, Annual Budget, Building Permit Applications, Elections, Meeting Minutes, Park Reservations, Dog Licensing, Payroll, Personnel/Human Resources, Planning & Zoning, Public Records Request, Urban Renewal, Water, Sewer, Sanitation Services, Utility Billing, &

"OTHER DUTIES AS ASSIGNED" including <u>Floodplain Development</u> Permits.

## Floodplain Administrator (FPA)

#### **City of Notus on the Snake River**

- Population 610
- City Clerk with a 13-year tenure
  - has attended a couple trainings
  - has adopted a new Flood Ordinance
  - has issued six new building permits (in her tenure) none were for structures in the SFHA
- Recently received an MT-2 application
  - first floodplain permit activity as the FPA
- City Clerk & Treasurer are part-time
- Public Works Director is full-time



## Notus, ID

Total area 0.39 sq. mi.

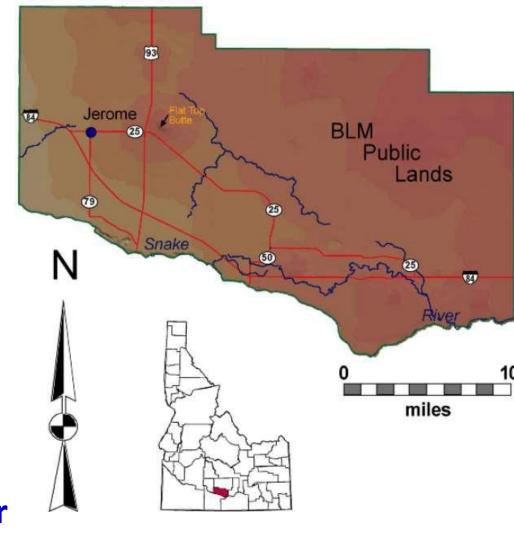
- 0.38 sq. mi. is land
- 0.01 sq. mi. is water



## Floodplain Administrator (FPA)

#### **Jerome County on the Snake River**

- Population 25,714
- Total Area 602 sq. mi.
  - Land 597 sq. mi.
  - Water 5 sq. mi. (0.8%)
- Planning Staff/FPA
  - have attended trainings
  - have adopted a new Flood Ordinance
  - floodplain is primarily the Snake River
  - have issued two Floodplain Development Permits since 11/2015



## Master Floodplain Administrator (FPA)

If someone only snow skis once a year...
they will never become an Olympic contender.

Picabo Street, from Triumph, ID is an American former World Cup alpine ski racer & Olympic gold medalist

If someone plays flag football only on weekends...

they will never be a starting NFL Quarterback.

Jake Plummer, from Boise, ID is an American former professional football

quarterback who played 10 seasons in the NFL



## **State NFIP Coordinator Responsibility**

Per Title 44 of the Code of Federal Regulations §60.25 (b)(3) Guide & assist county & municipal public bodies & agencies in developing, implementing, & maintaining local flood plain management regulations;

In Idaho it is a fulltime occupation to ensure the NFIP communities have the necessary support & assistance to properly permit all Floodplain Development in the SFHA.

## **Community Rating System (CRS)**

- What about CRS?
- How can a city/county with two or three employees even consider participating in the CRS program?
- Only 8 communities continue to participate in CRS located in the larger urban areas.
- Disadvantaged & underserved communities are prohibited from participating in CRS due to the onerous reporting requirements.

Community	Rating
<b>Ada County</b>	7
Boise	7
Eagle	7
<b>Garden City</b>	7
<b>Gem County</b>	9
<b>Kootenai County</b>	7
Meridian	8
Moscow	8

#### **Thank You**

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Maureen. OShea@idwr.idaho.gov

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- 3 **Q&A**





Thank you!

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