

9. DRAINAGE DISTRICT #4

9.1 MULTI-HAZARD MITIGATION PLAN POINT OF CONTACT

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9.2 JURISDICTION PROFILE

9.2.1 Overview

Drainage District #4 (District) is a Drainage District formed in 1924. It is considered a quasigovernmental entity under Idaho law and assesses its landowners pursuant to the provisions in Chapter 29, Title 42 of the Idaho Code. The District is governed by a 3 member Board, (Board) with a Chair, and each Board member is appointed to a 3 year term.

The District oversees the maintenance of a drainage, detention and /determent infrastructure to control waste (ground/surface runoff) water and reduce flooding risk. The District's jurisdiction encompasses approximately 2,600 acres, located within Ada County, Idaho. The District boundary includes a portion of Garden City south of the Boise River, extending approximately 4.5 miles west of Garden City limits to include an area of Ada County south of city of Eagle to Eagle Island State Park.

District funding comes from assessments paid by landowners within the boundaries of the District. The District has no permanent employees and relies on the Board or independent contractors to perform duties as required. The Board is paid per diem, consisting of mileage and a daily rate when actually performing duties for the District. The District has no equipment and hires contractors to perform construction/maintenance work as needed.

9.2.2 Service Area and Trends

The district serves a population of approximately 16,525 (estimated 13% increase from last Plan Update) Its service area covers an area of 2,600 acres, which has a total value of \$5,648,155 (up estimated 13% from last Plan Update).

Land use designations allow for an increase in light commercial, medium residential and Special Opportunity land uses within the service area. Much of this increase will replace existing large open undeveloped land and farm tracts. The increase in land use density will increase impermeable surfaces within our service area and reduce rain water absorption. This increase in water flow will, in turn, increase demand on waste water/flood control structures. The rate of development activity in the near long term will likely be driven by the impact of the national economic downturn.

9.2.3 Assets

Table 9-1 summarizes the critical assets of the district and their value.

Table 9-1. Special Purpose District Assets	
Asset	Value
Property	
The District does not own any land outright, but does own water rights, ditch rights and easements for the ditches existing to drain water within the District boundary. (750 Minor inches of water rights X \$1,000/inch)	\$_750,000
Critical Infrastructure and Equipment	
The District does not own any Equipment. Bridges and pipes placed in/over the ditch are owned by and are the responsibility of the entity constructing/installing the structure.	
Critical Facilities	
None	

9.3 PLANNING AND REGULATORY CAPABILITIES

The following existing codes, ordinances, policies or plans are applicable to this Multi-Hazard Mitigation Plan:

- Idaho Department of Public Health
- Environmental Protection Agency
- Idaho Code of Regulations
- Regulatory permits
- Ada County Multi-Hazard Mitigation Plan
- Garden City Code
- Ada County Code
- Ada County Flood Plan
- Idaho State Hazard Mitigation Plan

9.4 FISCAL, ADMINISTRATIVE AND TECHNICAL CAPABILITIES

An assessment of fiscal capabilities is presented in Table 9-2. An assessment of administrative and technical capabilities is presented in Table 9-3.

Table 9-2. Fiscal Capability	
Financial Resources	Accessible or Eligible to Use?
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	No
Incur Debt through Special Tax Bonds	No
Incur Debt through Private Activity Bonds	No
State-Sponsored Grant Programs	No
Development Impact Fees for Homebuyers or Developers	No
Other	N/A

Tax assessment for property owners within the District boundaries to pay District management costs.

Table 9-3. Administrative and Technical Capability

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	No	None on staff. Can contract for Service
Engineers or professionals trained in building or infrastructure construction practices	No	None on staff. Can contract for Service
Planners or engineers with an understanding of natural hazards	No	None on staff. Can contract for Service
Staff with training in benefit/cost analysis	No	None on staff. Can contract for Service
Surveyors	No	None on staff. Can contract for Service
Personnel skilled or trained in GIS applications	Yes	COMPASS
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	ACEM
Grant writers	No	None on staff. Can contract for Service
Other	N/A	

9.5 EDUCATION AND OUTREACH CAPABILITIES

An assessment of education and outreach capabilities is presented in Table 9-4.

Table 9-4. Education and Outreach

Criteria	Response
Do you have a Public Information Officer or Communications Office?	No
Do you have personnel skilled or trained in website development?	No
Do you have hazard mitigation information available on your website?	No
Do you utilize social media for hazard mitigation education and outreach? • If yes, please briefly describe.	No
Do you have any citizen boards or commissions that address issues related to hazard mitigation? • If yes, please briefly specify.	Yes 3 member board
Do you have any other programs already in place that could be used to communicate hazard-related information? • If yes, please briefly describe.	No
Do you have any established warning systems for hazard events? • If yes, please briefly describe.	Yes Code Red/ISAWS – residents may sign up to receive emergency notifications and critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.

9.6 INTEGRATION WITH OTHER PLANNING INITIATIVES

The following describe the jurisdiction’s process for integrating the Multi-Hazard Mitigation Plan into existing plans and programs.

9.6.1 Existing Integration

The following plans and programs currently integrate the goals, risk assessment and/or recommendations of the Multi-Hazard Mitigation Plan:

- DD4 plans to continue participation in the Ada County Multi-Hazard Mitigation Plan process in order to monitor risk and develop actions to reduce risk as outlined in the Multi-Hazard Mitigation Plan.

9.6.2 Opportunities for Future Integration

The following plans and programs do not currently integrate the goals, risk assessment and/or recommendations of the Multi-Hazard Mitigation Plan, but provide an opportunity for future integration:

- Plan to combine DD4 and Drainage District #2, which will cover a much larger area in Ada County. This larger District will have a significant impact on hazard mitigation for a higher volume of the population in Ada County.

9.7 JURISDICTION-SPECIFIC NATURAL HAZARD EVENT HISTORY

Table 9-5 lists all past occurrences of natural hazards within the jurisdiction.

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Flood	N/A	5/15-24/1998	Homes evacuated. 1' water
Flood	N/A	9/11/1997	\$57,000 rain on old 1996 fire area
Severe Weather	N/A	3-7/1997	\$50,000,000 river levee breach
Severe Weather	N/A	1/1-5/1997	\$65,000,000 mud/landslides
Flood	N/A	5/17/1996	\$5,000
Severe Weather	N/A	12/1/1994	\$1,136.36 heavy rain/snow
Flood	N/A	6/25/1992	\$50,000 flash flood
Flood	N/A	1/12/1991	\$7,142.86 urban flooding
Severe Weather	N/A	6/1983	\$146,900 snowmelt "50 yr. flood"
Severe Weather	N/A	2/1982	Ice flow flooding
Flood	N/A	1/11/1979	\$50,000 mudslides
Severe Weather	N/A	6/8/1976	\$5,000 heavy rain/flooding
Severe Weather	N/A	9/11/1976	\$125 heavy rain
Severe Weather	N/A	7/1975	\$2,363 wind/heavy rain
Severe Weather	N/A	1/7/1995	\$1,136.36 heavy rain/snow
Severe Weather	N/A	5/1965	\$1500 300 ac. Farmland flooded
Challis Earthquake	N/A	1983	N/A

9.8 JURISDICTION-SPECIFIC VULNERABILITIES

Noted vulnerabilities the jurisdiction include:

- Localized minor flooding due to debris clogging pipes/ditches following major rain events.

9.9 HAZARD RISK RANKING

Table 9-6 presents the ranking of the hazards of concern.

Table 9-6. Hazard Risk Ranking

Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
1	Severe Weather	54	High
2	Flood	42	High
3	Earthquake	28	Medium
4	Dam failure	18	Medium
5	Wildfire	12	Low
6	Volcano	6	Low
7	Drought	0	Low
8	Landslide	0	Low

9.10 STATUS OF PREVIOUS PLAN INITIATIVES

Table 9-7 summarizes the initiatives that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

Table 9-7. Status of Previous Action Plan

Action Item	Completed	Carry Over to Plan Update	Removed; No Longer Feasible
Action #—1 Initiate a community meeting with representatives from DD4, ACHD, HOA etc. to discuss flooding issues at Willowdale/Pintail streets. In Garden City <i>Comment: HOA is building a fund to help pay for moving the drain under the streets in the future..</i>	X		
Action #—2 Assist ACHD and HOAs in identifying options for reducing repeated flooding of Willowdale and Pintail streets. <i>Comment: Engineering is completed. Grant was unsuccessfully applied for. Significant blockages were removed.</i>	X		
Action #3 HOA and ACHD select an engineering option to mitigate recurring flooding in the Willowdale/Pintail streets. Area. <i>Comment: Stakeholders selected the option to move the drain under existing streets in order for ACHD to have access in order to monitor and clean the drains when needed.</i>	X		
Action #4 Provide coordination with ACHD and HOAs to ensure compliance with Ch. 29, Title 42 of the Idaho Code while performing any modifications that may impact DD4’s area of responsibility		X	
Action #5 Retrofit drain structure/system in the area of Willowdale/Pintail streets. In Garden City, Idaho in order to provide flooding relief for homeowners and ACHD. <i>Comment: With the removal of some blockages, this item has a lower priority until shared funds have been secured to pay for moving the structure/system.</i>		X	
Action #6 Complete a study of DD4 to identify ditch capacity, restriction points, hazard areas and update boundary. <i>Comment: Partial completion of a master map to identify license agreements and responsible parties has been completed. Still need to complete a study of the capacity, restriction points and hazard areas.</i>		X	
Action #—7 Support County-wide initiatives identified in Volume 1.		X	
Action #8 Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1.		x	

9.11 HAZARD MITIGATION ACTION PLAN AND EVALUATION OF RECOMMENDED ACTIONS

Table 9-8 lists the actions that make up the Drainage District #4 hazard mitigation action plan. Table 9-9 identifies the priority for each action. Table 9-10 summarizes the mitigation actions by hazard of concern and the six mitigation types.

Table 9-8. Hazard Mitigation Action Plan Matrix

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
Action # —Provide coordination between DD4, ACHD and HOAs to ensure compliance with Ch. 29, Title 42 of the Idaho Code while performing any modifications that may impact DD4’s area of responsibility.						
EX-1	Flooding	1,3,9	DD4/ACHD	Low	In-house budgets	Long term
Action # —Retrofit drain structure/system in the areas of Willowdale/Pintail streets in Garden City, Idaho in order to provide flooding relief for homeowners and ACHD.						
EX-2	Flooding	1,3,9	DD4/ACHD	Medium	Combined DD4/ACHD/HOA	Long term
Action # —Complete a study of the Drainage District to identify ditch capacity, restriction points, hazard areas, and District boundary.						
EX-3	Flooding	2,4,8,10	DD4	Low	In house budget	Short term
Action # —Support County-wide initiatives identified in Volume 1.						
EX-4	Flooding	All Hazards	DD4	Low	In house budget	Ongoing
Action # —Continue to support the implementation, monitoring, maintenance and updating of this Plan, as defined in Volume 1.						
EX-5	Flooding	All Hazards	DD4	Low	In house budget	Ongoing

Table 9-9. Mitigation Strategy Priority Schedule

Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Implementation Priority ^a	Grant Priority ^a
EX-3	4	Medium	Low	Yes	No	Yes	Medium	Low
EX-1	3	High	Medium	Yes	No	No	Medium	Low
EX-2	3	Medium	Low	Yes	No	Yes	Medium	Low
EX-4	10	Low	Low	Yes	No	Yes	Low	Low
EX-5	10	Medium	Low	Yes	No	Yes	Medium	Low

a. See the introduction to this volume for explanation of priorities.

Table 9-10. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type ^a					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Dam Failure	EX-3,EX-4, EX-5	EX-2, EX-3	EX-1, EX-4, EX-5	EX-3	EX-3, EX-4, EX-5	EX-3
Drought	EX-4,EX-5	EX-3	EX-4, EX-5		EX-4, EX-5	EX-3
Earthquake	EX-3, EX-4, EX-5	EX-3	EX-4, EX-5		EX-3	EX-3
Flood	EX-1,EX-2,EX-3, EX-4, EX-5	EX-1, EX-2, EX-3, EX-4, EX-5	EX-1, EX-3	EX-3	EX-3, EX-4, EX-5	EX-3
Landslide	EX-3	EX-3	EX-3, EX-4, EX-5	EX-3	EX-3	EX-3
Severe Weather	EX-1, EX-2,EX-3, EX-4, EX-5	EX-2, EX-3, EX-4, EX-5	EX-1, EX-4, EX-5	EX-3	EX-3	EX-3
Volcano	EX-5	EX-3	EX-4, EX-5		EX-3, EX-4, EX-5	EX-3
Wildfire	EX-4, EX-5	EX-3, EX-4, EX-5	EX-3		EX-3, EX-4, EX-5	EX-3

a. See the introduction to this volume for explanation of mitigation types.

