

21. BOISE STATE UNIVERSITY

21.1 MULTI-HAZARD MITIGATION PLAN POINT OF CONTACT

Primary Point of Contact

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21.2 JURISDICTION PROFILE

21.2.1 Overview

Boise State University was established in 1932 as a junior college and gained university status in 1974. Located in downtown Boise, ID, the main campus includes over 140 buildings on a 140-acre site. The university employs 2,753 faculty and staff and has an enrollment around 22,000 students during the fall/spring semesters. In addition to conducting academics and research, the university hosts multiple, simultaneous events on campus with some events bringing up to 45,000 visitors on campus for sporting and performance events.

21.2.2 Service Area and Trends

While Boise State University might be most famous for the iconic Blue Turf of the Albertsons Stadium and the conference winning Broncos, it is also becoming a metropolitan research university of distinction in the Pacific Northwest. Boise State confers more degrees annually than any other university in Idaho and its programs are growing each year, with over \$200 million being spent on academics and another \$70 million to expand the athletics department. We have over 2,500 residents living on campus with students from all over the United States and an increasing international student population.

21.2.3 Assets

Table 21-1 summarizes the critical assets of the district and their value.

Table 21-1. Special Purpose District Assets

Asset	Value
Property	
<ul style="list-style-type: none"> • Main Campus: 183 acres • Off Campus Properties (Dona Larsen Park, Boas Tennis Center, Yanke Research Park, Gage Warehouse, Warm Springs Property, Park & Ride): 53 Acres <p style="text-align: right;">274.92 Total Acres</p>	\$83,804,288
Critical Infrastructure, Facilities and Equipment	
Total Property Value: 250+ Buildings; includes building replacement value, content replacement value, mobile equipment, stock/supply, rental loss, business interruption, and tuition fees)	\$1,104,377, 772.00
Insured Equipment (all items over \$2,000 value; 10,335 items)	\$11,335,670.67
Auto/Fleet (195+ vehicles)	\$767,487.08
Total:	\$1,116, 480, 929.75
Grand Total	\$1,200,285,217,75

21.3 PLANNING AND REGULATORY CAPABILITIES

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

- State of Idaho Statutes
- Boise City Code:
 - Title 4: Building Regulations
 - Title 7: Fire Regulations
 - Title 8: Health and Sanitation
 - Title 11: Zoning
- Ada County Emergency Management Emergency Plans
- Boise State University Emergency Operations Plan

21.4 FISCAL, ADMINISTRATIVE AND TECHNICAL CAPABILITIES

An assessment of fiscal capabilities is presented in Table 21-2. An assessment of administrative and technical capabilities is presented in Table 21-3.

Table 21-2. Fiscal Capability

Financial Resources	Accessible or Eligible to Use?
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	No
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	Yes
Development Impact Fees for Homebuyers or Developers	No
Other	No

Table 21-3. Administrative and Technical Capability

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Campus Planning & Facilities, Idaho Department of Public Works
Engineers or professionals trained in building or infrastructure construction practices	Yes	Campus Planning & Facilities, Idaho Department of Public Works
Planners or engineers with an understanding of natural hazards	Yes	Campus Planning & Facilities, Idaho Department of Public Works
Staff with training in benefit/cost analysis	Yes	Boise State Risk Management
Surveyors	Yes	Campus Planning & Facilities, Idaho Department of Public Works
Personnel skilled or trained in GIS applications	No	
Scientist familiar with natural hazards in local area	Yes	Boise State University Instructors
Emergency manager	Yes	Boise State Office of Emergency Management
Grant writers	Yes	Boise State Research
Other	No	

21.5 EDUCATION AND OUTREACH CAPABILITIES

An assessment of education and outreach capabilities is presented in Table 21-4.

Table 21-4. Education and Outreach

Criteria	Response
Do you have a Public Information Officer or Communications Office?	Yes/Kathleen Tuck
Do you have personnel skilled or trained in website development?	Yes/Various divisions on campus
Do you have hazard mitigation information available on your website? • If yes, please briefly describe.	Yes Link to Ada County Emergency Management website
Do you utilize social media for hazard mitigation education and outreach? • If yes, please briefly describe.	Yes Twitter and Facebook accounts
Do you have any citizen boards or commissions that address issues related to hazard mitigation? • If yes, please briefly specify.	Yes Emergency Policy and Operations Groups
Do you have any other programs already in place that could be used to communicate hazard-related information? • If yes, please briefly describe.	Yes Emergency Operations Plan, Annex for Emergency Notification Protocols
Do you have any established warning systems for hazard events? • If yes, please briefly describe.	Yes Emergency Notification System: BroncoAlert. Provides Emergency Notification and Timely Warning

21.6 INTEGRATION WITH OTHER PLANNING INITIATIVES

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

21.6.1 Existing Integration

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

- Boise State University Emergency Operations Plan
- Boise State University Continuity of Operations Plan
- Boise State University Building Coordinator Emergency Action Plans (1 for each of the 40+ major buildings on campus)

21.6.2 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:

- Boise State University Building Design Guidelines. We are working on defining campus safety and mitigation standards for all new building construction and renovations with our Campus Planning & Facilities group.
- Expansion of the campus Emergency Management Committee to include more campus faculty with subject matter expertise on natural and human-caused disasters.
- Creation of campus Public Safety group to host quarterly sessions including our emergency responders from Ada County and the City of Boise to discuss Risk Assessment, Mitigation and Preparedness on campus.

21.7 JURISDICTION-SPECIFIC NATURAL HAZARD EVENT HISTORY

Table 21-5 lists all past occurrences of natural hazards within the jurisdiction.

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
All recorded incidents have been human-caused; no recorded natural hazard events for the last 6 years	N/A	N/A	N/A

21.8 JURISDICTION-SPECIFIC VULNERABILITIES

Noted vulnerabilities the jurisdiction include (these are the vulnerabilities identified by Ada County Emergency Management as top vulnerabilities for Ada County):

- Dam Failure
- Drought
- Earthquake
- Flood
- Landslide
- Severe weather
- Volcano

21.9 WILDFIRE HAZARD RISK RANKING

Table 21-6 presents the ranking of the hazards of concern to Boise State University.

Table 21-6. Hazard Risk Ranking

Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
1	Cyber/IT Disruption	10	High
2	Flooding	9	High
3	Severe Weather	8	High
4	Pandemic	7	High
5	Targeted Violence	6	Medium
6	Structural Fires	5	Medium
7	Hazmat	4	Medium
8	Power Outage	3	Medium
9	Earthquake	2	Medium
10	Water Outage	1	Medium

21.10 HAZARD MITIGATION ACTION PLAN AND EVALUATION OF RECOMMENDED ACTIONS

Table 21-7 lists the actions that make up the Boise State University hazard mitigation action plan.

Table 21-7. Mitigation Action Matrix

Action #	Mitigation Actions	Ranking	Responsible Department or Division	Proposed Funding Source	Desired Completion Date	Estimated Cost
Goal 1: Educate, advise campus leadership, planners on criticality of integrating mitigation actions into all aspects of campus planning and operations.						
Goal 1: Protect life and property on campus by transitioning to integrated security systems. (X mitigation actions)						
1	Replace end of life building access system with new system capable of integrating with monitoring station cameras and alarms.	High	Public Safety			
2	Fund and purchase camera surveillance system throughout campus to include key external areas critical to campus safety.	High	Public Safety			
3	Replace aging campus radio trunk system to ensure communications interoperability during disasters on campus.	Medium	Facilities Operations & Maintenance			
4	Continue to define/refine building design guidelines that provide the minimum safety standards for all new buildings and renovation projects.	Ongoing	Architectural Engineering and Services			
5	Build and identify safe rooms in buildings throughout the campus.	Medium	Facilities Operations & Maintenance			
6	Retrofit all campus classrooms and office spaces with inside locks or secure access (card readers) devices to provide secure shelter-in-place refuges.	High	Facilities Operations & Maintenance			

Action #	Mitigation Actions	Ranking	Responsible Department or Division	Proposed Funding Source	Desired Completion Date	Estimated Cost
Goal 2: Educate, advise campus leadership, planners on criticality of integrating mitigation actions into all aspects of campus planning and operations. (X mitigation actions)						
7	Develop/Design specific Mitigation Project Plans and determine proper funding sources for this Action Plan.	High	Emergency Management			
8	Continue to promote the development, refinement of Emergency Action Plans for all buildings on campus	Ongoing	Environmental Health & Safety			
9	Educate campus decision makers about natural hazard vulnerability and assure comprehensive understanding of hazard vulnerability and hazard mitigation among key decision makers (Emergency Policy/Operations Groups)and members of the campus community.	Ongoing	Emergency Management			
10	Continue to expand/refine continuity plans for all academic, research, and support operations on campus to minimize downtime following a disaster impacting campus.	Ongoing	Emergency Management			
11	Develop memorandums of agreement with all external agencies necessary for aid following a disaster.	Ongoing	Emergency Management			
12	Develop and maintain enterprise GIS system, including HAZUS, with the goal of providing a common operating picture to support planning and mitigation activities for all campus managers.	High	Architectural Engineering and Services/Emergency Management			
13	Update, maintain, and improve detailed information regarding hazardous chemicals, biological and radiological agents, animals, and critical works of art and cultural treasures.	Ongoing	Environmental Health & Safety			
Goal 2: Educate and communicate to the campus community (faculty, students, staff, visitors) the hazards specific to the campus and prepare them for emergency incidents on campus. (X mitigation actions)						
14	Continue efforts to inform campus personnel of risks and mitigation strategies constantly looking for opportunities to improve public information communication and distribution of information.	Ongoing	Emergency Management/Environmental Health & Safety			
15	Continue to provide targeted/workplace violence awareness/academics to all faculty, students, and staff to raise preparedness on campus.	Ongoing	Public Safety			
16	Develop student/faculty disaster kits for use during incidents on campus.	Medium	Emergency Management			
17	Provide community outreach and education regarding hazards on campus using handouts during orientation, move-in, safety fairs and additional displays.	Medium	Emergency Management/ Public Safety /Environmental Health & Safety			

Action #	Mitigation Actions	Ranking	Responsible Department or Division	Proposed Funding Source	Desired Completion Date	Estimated Cost
Goal 3: Ensure systems are in place to communicate effectively during emergency incidents on campus. (X mitigation actions)						
18	Continue to refine the emergency notification system to include redundancy and efficient distribution during emergencies on campus. Expand capability to include: Reader boards Building mass notification systems Computer alerts Classroom alert signs	Medium	Emergency Management			
19	Replace aging outdoor "Shelter-In-Place notification system with outdoor speaker arrays to cover entire campus footprint.	Medium	Emergency Management			
Goal 4: Assess and improve campus infrastructure, landscaping, and capacity to effectively the impact of storm water drainage/flooding on campus. (X mitigation actions)						
20	Develop and implement a vegetation management policy to assure maintenance of open space around all buildings on campus.	Medium	Facilities Operations & Maintenance			
21	Wet proof as many facilities on campus as possible to preclude flood damage.	Medium	Facilities Operations & Maintenance			
22	Improve drainage throughout the campus to avoid nuisance flooding in older campus buildings (10+)	Medium	Facilities Operations & Maintenance			
23	Need to conduct a comprehensive analysis of underground utility infrastructure (storm water, etc.) due to expansion of university, climate change, and increased frequency of severe weather events—and implement recommended changes.	Medium	Campus Planning & Facilities			
Goal 5: Assess and improve campus infrastructure to mitigate and minimize the impact of power outages on campus.						
24	Acquire a generator with the capability to fully power the Student Union Building during major incidents to allow the building to be used as a shelter, warming center, etc.	High	Facilities Operations & Maintenance			
25	Investigate current vulnerability of existing generators and assess possibility of moving them to non-vulnerable locations	Medium	Facilities Operations & Maintenance			
27	Investigate utility loops and redundancies in electrical grid and continue to look into opportunities for alternate power	Medium	Facilities Operations & Maintenance			
28	Provide additional backup generators throughout campus to provide emergency lighting, power during power outages and severe weather.	Medium	Facilities Operations & Maintenance			
29	Install additional UPS units throughout all server rooms on campus to preclude power disruptions.	High	Facilities Operations & Maintenance			
30	Build a new, efficient Central Power Plant to provide electricity, steam, hot water, and chilled water for the main campus and reduce reliance on Idaho Power.	Medium	Facilities Operations & Maintenance			

