

CHAPTER 20

VULNERABILITY OF STATE FACILITIES TO HAZARDS

All state buildings are under the management of the Wyoming Department of Administration and Information (A&I). These buildings have been analyzed to determine, when feasible, their potential for actual building damage, and to determine the hazards to which the buildings may be exposed.



Wyoming State Capitol Building 2009
<http://www.traveljournals.net/pictures/270211.html> Accessed 6/1/2011

In 2003, the Wyoming Office of Homeland Security received a comprehensive list of 2143 state-owned or leased facilities from the Wyoming Department of Administration and Information Risk Management Section. The database included information on building value, contents value, construction type, construction date, occupancy, number of stories, square footage, building number, and street address. The WSGS converted the street address to preliminary latitudes and longitudes using the geocoding function within ArcGIS[®]. The geocoded locations were then digitally plotted on digital orthophoto quarter quadrangles, and the preliminary building locations were then shifted to the actual building locations. If buildings were located within a large complex or campus, maps showing building locations were obtained and used to properly place buildings. If maps were not available, buildings were located through personal communications

with building occupants. The original database was then modified to include the latitudes and longitudes of state buildings. The building locations and associated data were then analyzed to determine what hazards the buildings may encounter, and (where feasible) to determine the potential damage.

In 2007, the Wyoming Office of Homeland Security received an update of state-owned or leased facilities from A&I, and updated the 2003 list for the current analysis. Temporary buildings, such as those used for remediation projects, and buildings not constructed for human habitation were not included in the analysis. State buildings were evaluated for earthquakes, flood exposure, landslide exposure, wildland fire exposure, liquefaction exposure, and expansive soil exposure. These hazards were evaluated as they have the greatest potential to damage state buildings to the point where the dollar and/or loss of life impacts are significant. Other hazards, such as winter storms, lightning, hail, snow avalanches, drought, tornadoes, and windblown deposits are not expected to have a significant impact on state buildings. Dam failure could have an impact on State buildings, but data on inundation are not currently available from the U.S. Bureau of Reclamation. National Flood Insurance Program (NFIP) flood boundaries, however, may approximate dam failure inundation in many cases.

State buildings were individually evaluated for potential earthquake damage by FEMA Region VIII using HAZUS-MH. The Water Resources Data System at the University of Wyoming determined flood exposure by crossing digitized Flood Insurance Rate Maps (FIRMs) with building locations. Landslide exposure was determined by digitizing all 850 landslide maps (1:24,000 scale) for Wyoming, digitally adding a 100-foot buffer around each landslide, and digitally crossing building locations with the modified landslides. Wildland fire exposure potential was determined by crossing the building locations with “red zones” in the digital Wyoming Wildland Urban Interface Hazard Assessment map, produced by a joint venture of the Wyoming State Forestry Division (WSFD), U.S. Forest Service (USFS), U.S. Bureau of Land Management (BLM), and the National Park Service (NPS). The final output is a Risk, Hazard, and Value (RHV) map displaying areas of concern (red zones) for catastrophic wildland fires. Liquefaction exposure potential was determined by digitizing liquefaction potential maps for western Wyoming and digitally crossing building locations with the liquefaction maps. Expansive soil exposure potential was determined by first developing a generalized digital expansive soils map from the geologic map of Wyoming (Love and Christiansen, 1985), and then crossing the building locations with the flagged soil areas. All state buildings will be evaluated by Wyoming’s Department of A&I to determine appropriate mitigation strategies for presentation to the State Legislature. Select buildings will need to be investigated by A&I to determine the actual on-site risk from hazards. Proposed state mitigation measures relating to state facilities are generalized because of the actions and authorities vested outside the Wyoming Office of Homeland Security (WOHS).

Between 2008 and 2011 there has been few new properties added to the state’s property due to budget constraints. Therefore, no additional updates were completed to the geo database, as it would have little to no impact on previous vulnerability/risk analysis results. However, as part of this update WOHS staff reviewed past insurance claims to determine historical propensity to damaging hazards. Assuming hazards continue into the future as they have in the past, we can draw the following conclusions:

In the period from August 1985 through February 2011 (307 months) there have been 478 instances where hazards have generated damage totaling \$5.33 million in damage to state property. If trends continue the state can expect three (3) property-damaging events every two months ($478 / 307 = 1.56$) at a cost of just over \$11,000 per incident ($\$5,332,632.35 / 478 = 11,156.13$). If trends continue, the State of Wyoming can anticipate damages from un-mitigated hazardous incidents will be approximately \$134,000 annually. A spreadsheet is included as an appendix to this plan, documenting insurance claims from August 1985 forward.

Earthquakes

The major state building analysis for this Plan includes the use of the new HAZUS-MH Advanced Engineering Building Module (AEBM). The AEBM requires additional attributes describing the buildings, including number of occupants, building and contents values, and building construction types and seismic design levels. With these attributes, the AEBM is a powerful analysis tool that can further refine mitigation priorities by including potential casualties and a more detailed economic loss assessment for each of the state buildings in Wyoming. A comparison of the state buildings' database and analysis from the 2005 State Mitigation plan to the new state buildings database indicated 111 new or significantly remodeled structures, not including temporary structures. However, the vast majority of these new buildings were not constructed for human occupancy, including hatchery facilities, fair facilities, restrooms, maintenance buildings, etc. In addition, the state's most vulnerable buildings will continue to be the older buildings that were assessed in the 2005 State Mitigation plan. Since the goal of this analysis is to focus additional analysis and potential mitigation efforts on the State's most vulnerable and highest risk buildings, those new buildings that were clearly not constructed for human occupancy and are less than 1,000 square feet were removed from the analysis. The remaining 39 new records lacked a number of attributes, and assumptions or proxies were developed to allow analysis as described below:

- Addresses were geocoded to produce a usable geographic location.
- Where the state database included "Construction type '1'" defined as "frame" a HAZUS building type of wood-frame (W1) was used.
- Remaining building types were assigned based on use descriptions from "Occupancy" field: residential, dwelling, to W1 (wood-frame); mobile homes to MH (manufactured housing); offices, state library, multi-purpose, large dormitories, to RM1 (reinforced masonry low rise); shed, maintenance, hatcheries to S3 (steel light frame).
- The "Building_V" field provided in the state database was used as the building value. Where building values were missing, the standard RS Means' replacement cost of \$86.47/square foot for general services government buildings was used.
- For remodels and additions to an existing structure, the same exterior building type as already defined for existing structure were used, however, the current seismic design levels were applied ("MC" for structures in Teton and Lincoln counties and "LC" for all other counties).
- To calculate the total cost of the contents of a building (Contents field), we created a formula to add up the values from CONTENTCOS, FINE_ARTS1, COMPUTER_V, BUSINESS_V, EXTRA_EXPE, and VALUABLE.

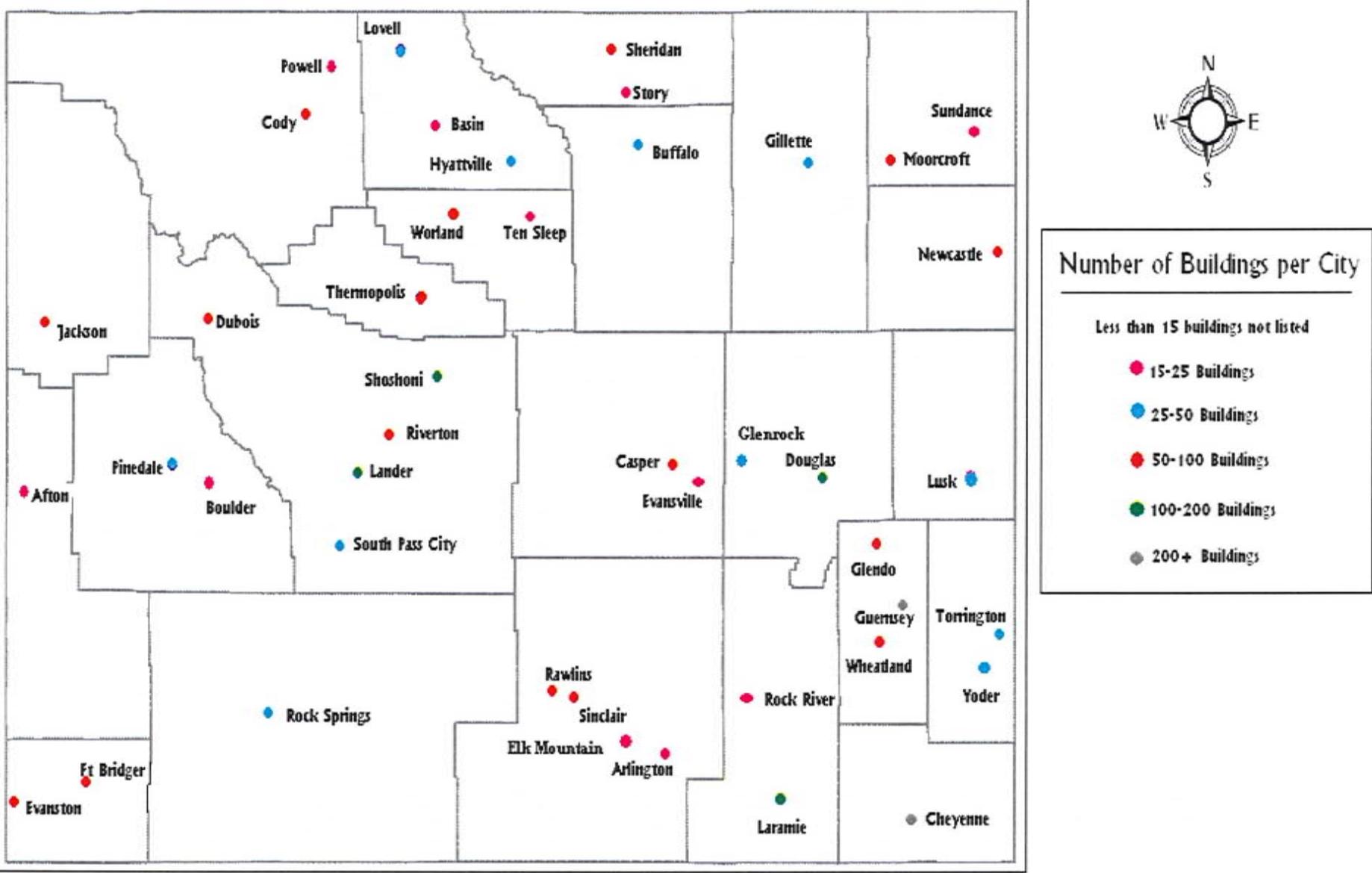
- Values reported for buildings and contents were converted from actual dollars to thousands of dollars for AEBM reporting purposes.
- Where content value is missing, 50% of building replacement value was used as a proxy to estimate content value. In addition, the computer and extra expense value data where available were added to the content value field. This especially increased the content valuation for the State Library in Laramie, which is typical of library facilities.
- The values for contents and building values were adjusted for inflation from 2003 to 2007, by increasing the 2003 value by 13.3%. This percent increase was obtained using the CPI (Consumer Price Index) provided by the United States Department of Labor Bureau of Labor Statistics.
- The daytime occupants' value is then estimated by creating a new field, and dividing the building square feet amount by 100 that assumes an average of 100 square feet of space provided for each occupant. Obviously, this can vary considerably and an actual assessment of occupancy loads is a priority for the next plan revision.

Results of the AEBM State Building's Analysis

A mitigation priority by next plan revision is to replace areas in which proxy data were used through a more detailed inventory. The 1st priority would be to determine actual occupancy loads during the day and night for the state buildings. Another would be a more accurate assessment of building and contents replacements costs for those facilities where we had to use RS Means or another approximate method as an estimate. However, this AEBM assessment provides a useful screening for the state to help determine priorities for additional visual screening assessment and developing an updated AEBM analysis and the development of mitigation project priorities that reduce the potential losses for the state's most vulnerable facilities.

This analysis identified the total economic losses to state facilities from the 2,500 year probabilistic earthquake of about \$65 million, as shown in **Figure 20.1 and Figure 20.2**. An assessment by county indicates most of these losses to state facilities are expected to occur in Uinta County. **Table 20.1** shows the top 25 state buildings subject to economic losses related to the 2,500 year event. The table indicates many of the state hospital facilities could face significant losses in future earthquake events, and developing a mitigation strategy for these critical facilities should be a state priority. Individual AEBM reports for these 25 buildings are provided in Appendix A, which estimate potential casualties based on the occupancy proxy (one person/100 square feet) described above.

The State of Wyoming has received the above data, which will be used to set long-term State priorities for the on-site evaluation and mitigation of risk to the buildings through established State processes. The data will also be used to evaluate compliance with 44 CFR 206.250, which sets forth certain insurance requirements that apply to disaster assistance provided by FEMA.



Number of State Buildings per City 2010—Provided by: State of Wyoming A & I Risk Management

Wyoming Building Inventory Values By Department
Fiscal Year 2010**

Department	Building Value	Contents Value	Computer Equipment
Administration and Information	\$ 326,222,508	\$ 14,492,337	\$ 22,280,813
Agriculture	\$ 24,712,344	\$ 1,522,607	\$ 120,000
Attorney General	\$ 12,964,135	\$ 10,206,336	\$ 1,561,108
Audit		\$ 83,645	\$ 800,100
Auditors Office		\$ 106,020	\$ 6,467,006
Board of Administrative Hearings		\$ 67,032	\$ 53,192
Board of Cosmetology		\$ 7,000	\$ 10,000
Board of CPAs		\$ 7,418	\$ 11,297
Board of Medicine		\$ 21,440	\$ 30,767
Board of Nursing		\$ 144,473	\$ 44,587
Board of Outfitters		\$ 45,044	\$ 14,247
Board of Parole		\$ 34,473	\$ 14,919
Board of Pharmacy		\$ 5,723	\$ 34,165
Board of Professional Geologists		\$ 27,410	\$ 23,753
Business Council		\$ 409,333	\$ 278,784
Commission of Judicial Conduct and Ethics		\$ 7,366	\$ 16,883
Community College Commission		\$ 649,949	\$ 1,646,944
Corrections	\$ 305,140,052	\$ 15,256,742	\$ 3,284,033
Department of Environmental Quality	\$ 2,333,082	\$ 10,764,613	\$ 441,719
Education	\$ 1,223,565	\$ 1,174,497	\$ 889,280
Employment	\$ 5,439,144	\$ 3,831,759	\$ 22,555,321
Engineers Office		\$ 2,156,619	\$ 1,090,005
Environmental Quality Council		\$ 20,265	\$ 22,270
Family Services	\$ 30,835,595	\$ 3,146,501	\$ 2,174,505
Fire Prevention and Electrical Safety	\$ 1,797,306	\$ 219,734	\$ 108,585
Game and Fish	\$ 68,909,540	\$ 5,083,728	\$ 3,533,735
Geological Survey	\$ 2,933,135	\$ 767,285	\$ 1,156,256
Governors Office		\$ 170,435	\$ 83,320
Governors Office (homeland security)		\$ 3,968,116	\$ 314,091
Health	\$ 114,176,726	\$ 10,892,415	\$ 1,994,575
Insurance Department		\$ 145,058	\$ 91,100

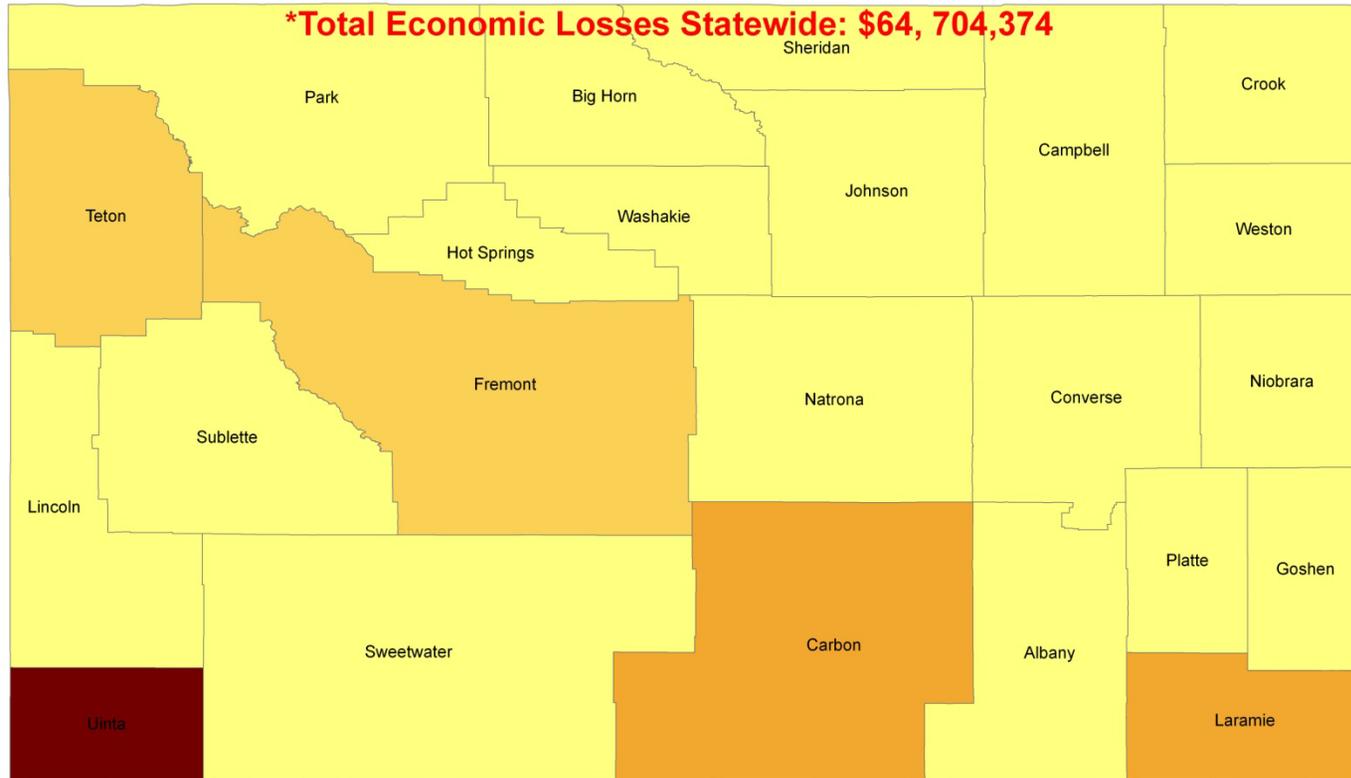
Department	Building Value	Contents Value	Computer Equipment
Legislative Service Office		\$ 1,347,382	\$ 1,024,533
Livestock Board	\$ 192,990	\$ 154,446	\$ 163,004
Military Department	\$ 126,716,866	\$ 4,688,942	\$ 644,661
Oil & Gas Commission	\$ 4,821,420	\$ 462,895	\$ 1,308,253
Pari-mutuel Commission		\$ 6,000	\$ 6,500
Parks & Cultural Resources	\$ 51,474,641	\$ 6,482,818	\$ 97,523
Public Defenders Office		\$ 145,810	\$ 422,174
Public Service Commission		\$ 350,000	\$ 100,000
Real Estate Commission		\$ 17,490	\$ 30,862
Retirement		\$ 238,038	\$ 568,920
Revenue	\$ 7,953,315	\$ 5,806,285	\$ 1,849,500
School Facilities Commission		\$ 170,231	\$ 129,000
Secretary of State		\$ 100,812	\$ 1,802,026
State Lands and Investments	\$ 10,004,259	\$ 2,020,436	\$ 1,771,000
Supreme Court		\$13,123,763	
Transportation	\$ 201,411,486	\$ 33,370,972	\$ 14,846,334
Travel and Tourism	\$ 913,780	\$ 532,481	\$ 129,722
Treasurer		\$ 96,529	\$ 379,021
Water Development Commission		\$ 107,367	\$ 70,349
Workforce Services	\$ 405,376	\$ 3,355,916	\$ 2,639,578

**Values Provided by State of Wyoming, A&I Risk Management Department

State Building Inventory Value By County**			
Fiscal Year 2010			
County	Building Value	Contents Value	Computer Equipment
Albany	\$32,534,349	\$5,522,257	\$1,628,021
Big Horn	\$20,950,598	\$2,726,469	\$625,783
Campbell	\$7,931,116	\$1,062,031	\$391,668
Carbon	\$156,891,881	\$9,362,409	\$2,037,266
Converse	\$41,789,775	\$4,995,535	\$399,991
Crook	\$8,583,145	\$892,675	\$51,004
Fremont	\$72,639,684	\$5,891,905	1,447,198
Goshen	\$128,116,477	\$2,482,764	\$967,505
Hot Springs	\$24,999,353	\$1,647,727	\$87,855
Johnson	\$3,430,897	\$450,961	\$67,011
Laramie	\$419,719,767	\$88,574,730	\$71,841,482
Lincoln	\$10,483,274	\$929,941	\$164,119
Natrona	\$29,812,605	\$7,331,305	\$12,508,474
Niobrara	\$39,713,402	\$2,460,484	\$198,136
Park	\$15,477,054	\$1,339,545	\$518,251
Platte	\$65,311,148	\$4,416,472	\$153,267
Sheridan	\$41,869,958	\$2,992,011	\$1,019,583
Sublette	\$10,417,445	\$1,166,772	\$143,343
Sweetwater	\$22,982,871	\$3,315,935	\$814,982
Teton	\$18765022	\$1,588,715	\$248,475
Uinta	\$80,450,972	\$3,974,179	\$832,815
Washakie	\$21,841,525	\$1,810,947	\$504,242
Weston	\$16,275,724	\$2,459,027	\$662,983
Other	\$12,604,540	\$614,612	\$1,814,367
Total Values	\$1,303,581,265	\$158,010,989	\$99,130,320

**Values Provided by State of Wyoming, A&I Risk Management Department

**Wyoming Statewide Earthquake - Total Economic Loss to State Owned Buildings By County
Hazard Scenario : 2500 Year Probabilistic Earthquake Scenario**



*Total Economic Loss per County Values		County	Total Economic Losses	County	Total Economic Losses
	\$91K - \$3.2M	Albany	\$879,547	Natrona	\$2,972,343
	\$3.2M - \$6.5M	Big Horn	\$819,040	Niobrara	\$605,282
	\$6.5M - \$10M	Campbell	\$294,319	Park	\$550,048
	\$13M - \$16.1M	Carbon	\$9,583,099	Platte	\$1,718,675
		Converse	\$2,642,086	Sheridan	\$1,145,725
		Crook	\$113,261	Sublette	\$512,375
		Fremont	\$5,958,631	Sweetwater	\$1,318,389
		Goshen	\$91,310	Teton	\$4,800,802
		Hot Springs	\$788,839	Uinta	\$16,102,680
		Johnson	\$459,283	Washakie	\$918,167
		Laramie	\$9,493,718	Weston	\$221,099
		Lincoln	\$2,715,658		

*Total economic losses includes structural losses, non-structural losses, loss of contents, loss of business inventory, relocation costs, rental costs due to relocation, and loss of wages.



Figure 20.1 – Total Economic Loss to State Owned Buildings by County from Earthquake, FY 2007

**Wyoming Statewide Earthquake - Total Economic Loss to State Owned Buildings
Hazard Scenario : 2500 Year Probabilistic Earthquake Scenario**

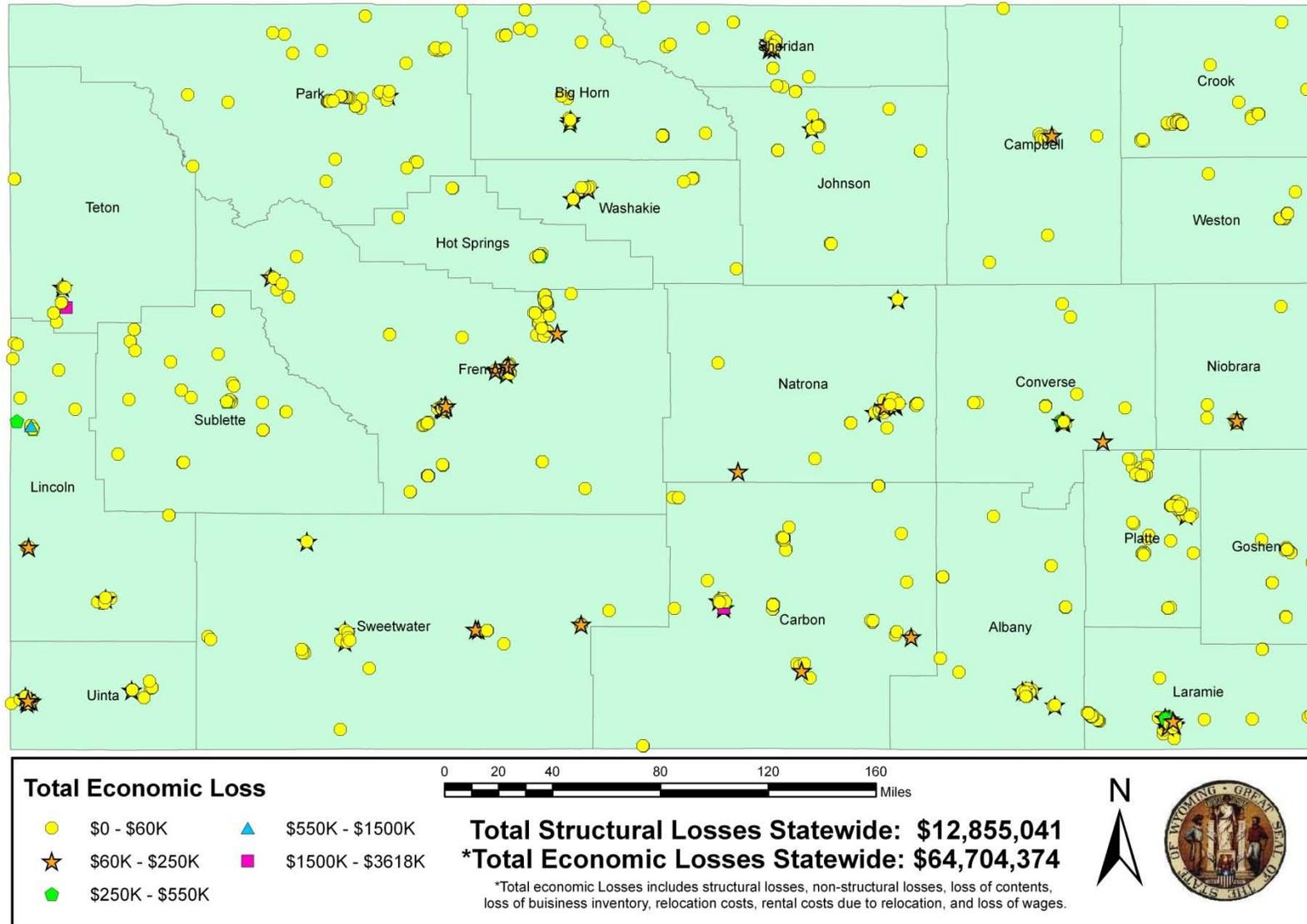


Figure 20.2 – Total Economic Loss to State Owned Buildings by Building Location from Earthquake FY 2007

Table 20.1—Rank of Top 25 State Buildings by Total Economic Loss From 2,500 Year Earthquake Event in Wyoming FY 2007.

Rank	Total Economic Loss (USD)	Building Value (USD)	Percent Loss	Content Value (USD)	Name	City
1	3,618,000	48,776,139	7.06%	2,500,000	Department Of Corrections –State Penitentiary (SP)–Housing Unit South	Rawlins
2	2,951,000	9,231,466	30.83%	340,000	Department Of Health–State Hospital 23–Karn/Johnson Correction Complex	Evanston
3	2,634,000	15,194,000	16.32%	944,400	Department Of Health–State Hospital 33–Adult Acute Care Facility	Evanston
4	2,442,000	104,704,000	2.24%	4,161,182	Administration and Information–Capitol Building–Offices, Meeting Rooms	Cheyenne
5	2,405,000	7,089,556	31.51%	542,229	Department Of Transportation Office–Office, Shop	Jackson
6	1,543,000	71,290,000	1.91%	9,348,529	Administration and Information–Herschler Building–Offices	Cheyenne
7	1,115,000	3,793,375	28.28%	148,992	Game And Fish Department–District Headquarters–Offices	Jackson
8	965,000	1,203,008	78.50%	246,216	Department of Transportation - Shop	Afton
9	848,000	2,497,815	33.35%	45,000	Department of Health – State Hospital 18 – Campbell/Uinta Clinic, Pharmacy	Evanston
10	780,000	2,346,522	30.27%	230,256	Department of Health–State Hospital 10–Teton/Sweetwater Staff Dev. School	Evanston
11	768,000	2,245,997	28.47%	451,577	Department of Health – State Hospital – Natrona/Laramie Hall	Evanston
12	755,000	15,289,230	4.74%	610,000	Department of Corrections–SP–Medium Security Support & Services	Rawlins
13	747,000	2,293,190	30.70%	140,000	Department of Health – State Hospital 17 – Bighorn/Goshen Admissions	Evanston
14	734,000	968,350	75.80%	0	Game and Fish Department – DOT Purchase	Jackson
15	698,000	14,005,444	4.72%	783,794	Dept. of Corrections–SP–Kitchen, Warehouse	Rawlins
16	688,000	2,112,725	31.48%	73,131	Department of Health – State Hospital 4 - Fremont/Albany Old Dorm, Training	Evanston
17	671,000	2,037,938	29.70%	221,000	Department of Health – State Hospital 6 – Administration Building	Evanston
18	661,000	2,058,948	30.63%	98,876	Department of Health – State Hospital 3 – Lincoln/Platte/Washakie Halls	Evanston
19	659,000	1,661,785	29.01%	610,000	Department of Corrections–SP–Medium Security Inmate Housing	Rawlins
20	637,000	6,402,238	9.49%	310,565	Dept. of Corrections–SP– Support & Services Maximum Security Inmates	Rawlins
21	624,000	13,401,000	1.15%	27,882,381	Administration and Information - Emerson Building	Cheyenne
22	615,000	*11,589,600	5.28%	55,000	Department of Corrections–SP–Maximum Security Inmate Housing #1	Rawlins
23	594,000	22,411,119	1.54%	16,097,411	Administration and Information - Supreme Court Building	Cheyenne
24	586,000	1,931,109	27.24%	220,000	Department of Health – State Hospital 7 – Converse/Weston Admin. Offices	Evanston
25	542,000	827,844	63.78%	21,978	Military Department – Armory	Afton

* Building Value Derived From 2005 Wyoming Multi-Hazard Mitigation Plan

Floods

Potential damages to state buildings from floods were not calculated directly because of data limitations. The values of state buildings potentially exposed to floods were defined, however. Flood exposure values were determined by digitizing all FIRMs and crossing building locations with the digitized FIRMs' flood boundaries. Analysis by the Wyoming Office of Homeland Security indicates from 2005-present, no new buildings constructed for human occupancy were located within FIRM boundaries. Temporary buildings were not included in the analysis. **Table 20.2** shows the top 25 state buildings appearing within FIRM flood boundaries, ranked by building value.

Historically, from 1985 forward, there have been 28 flooding events in 307 months which have damaged state property. These flood events cost the State \$2.24 million. If we can assume damaging events will continue into the future as they have in the past, the state can expect a damaging flood event every 11 months ($307 / 28 = 10.96$) at an average cost of nearly \$80,000 per incident ($\$2,237,130.33 / 28 = \$79,897.51$). This information makes flood mitigation actions attractive over the long term.

The State of Wyoming has received the above data, which will be used to set long-term state priorities for the on-site evaluation and mitigation of risk to the buildings through established State processes. The data will also be used to evaluate compliance with 44 CFR 206.250, which sets forth certain insurance requirements that apply to disaster assistance provided by FEMA.

Landslides

State buildings that could be potentially exposed to landslides were defined by digitizing all 850 landslide maps (1:24,000 scale) for Wyoming, digitally adding a 100-foot buffer around each landslide, and digitally crossing building locations with the modified landslides. Data available for the 2005 Wyoming Multi-Hazard Mitigation Plan were used in this plan as no new landslides have been mapped outside of landslide boundaries previously digitized. Potential building damage was not calculated, because of too much uncertainty in the type or extent of movement. Instead the value of the buildings and their contents were defined. **Table 20.8** shows the 20 state buildings located on a landslide or within 100 feet of a landslide. Sixty percent of the buildings are located in Teton County. Of the 20 buildings, 12 with combined total building and contents values of \$403,234 are located in Teton County; four with combined total building and contents values of \$296,108 are located in Park County; three with combined total building and contents values of \$104,370 are located in Fremont County; and one with a total building and contents value of \$13,868 is located in Sublette County. These counties are among the top listed for total building exposure values in **Table 11.2** of Chapter 11.

Some of the landslides that state buildings are located on or near may be stable. As a result, site-specific analyses for slope stability are necessary before any final determination can be made on potential building damage. The State of Wyoming has received the above data, which will be used to set long-term state priorities for the on-site evaluation and mitigation of risk to the buildings through established state processes. The data will also be used to evaluate compliance with 44 CFR 206.250, which sets forth certain insurance requirements that apply to disaster assistance provided by FEMA.

Table 20.2—Rank of Top 25 State Buildings Within FIRM Flood Boundaries FY 2007.

Building Number	Facility	City	County	Building Value	Content Value	Total Value	Rank
2940	Oil and Gas Commission – Office Building	Casper	Natrona	\$4,821,420	\$2,807,363	\$2,807,363	1
0038	Supply System – Warehouse, Museum and Gen. Service Storage, Archives	Cheyenne	Laramie	\$3,767,822	\$25,000	\$3,792,822	2
3601	Game and Fish Casper Regional Office – Offices	Casper	Natrona	\$3,031,517	\$494,039	\$3,653,245.00	3
6347	WYDOT – Storage	Casper	Natrona	\$2,882,865	\$142,907	\$2,829,257.00	4
6145	WYDOT District 2 HQ – Offices	Casper	Natrona	\$2,244,220	\$1,291,239	\$2,737,523.00	5
6509	WYDOT – Rest Area	Pine Bluffs	Laramie	\$1,505,450	\$0.00	\$945,963.00	6
6143	WYDOT – Shop	Casper	Natrona	\$1,000,186	\$98,674	\$920,111.00	7
0094	Fort Bridger Historic Site – Main Barracks/Museum	Fort Bridge	Uinta	\$832,115	\$704,956	\$950,703.00	8
3955	Game and Fish Story Fish Hatchery – Hatchery	Story	Sheridan	\$417,193	\$41,360	\$434,801.00	9
3674	Game and Fish Maintenance Building – Shops & Welding Area	Casper	Natrona	\$385,200	\$0	\$360,835.00	10
0093	Hot Springs State Park – 6 Unit Shop/Service Shop	Thermopolis	Hot Springs	\$376,367	\$88,828	\$429,966.00	11
2383	Game and Fish Como Bluff Hatchery – Shop	Rock River	Albany	\$310,397	\$3,767	\$290,091.00	12
2269	Fort Bridger Historic Site – Officer's Qtrs.	Fort Bridge	Uinta	\$261,471	\$319	\$148,535.00	13
3256	Game and Fish Sybille Research Unit – Ferret Facility	Wheatland	Albany	\$224,120	\$0.00	\$209,458.00	14
3995	Fort Bridger Historic Site – Turn of Century Ranch House/Civilian House	Fort Bridge	Uinta	\$204,456	\$0.00	\$110,000.00	15
3631	Bear River State Park South End – Restrooms	Evanston	Uinta	\$197,447	\$323	\$184,846.00	16
0096	Fort Bridger Historic Site – Old Guard House	Fort Bridge	Uinta	\$195,691	\$1,296	\$153,721.00	17
6011	WYDOT – Shop	Douglas	Converse	\$191,780	\$270,350	\$384,566.00	18
0097	Fort Bridger Historic Site – New Guard House	Fort Bridge	Uinta	\$155,664	\$0	\$178,115.00	19
2351	Game and Fish Story Fish Hatchery – Asst Residence Duplex	Story	Sheridan	\$139,698	\$923	\$130,559.00	20
2382	Game and Fish Como Bluff Hatchery – Offices	Rock River	Albany	\$132,861	\$8,242	\$126,669.00	21
3697	Buffalo Bill State Park/ Eagle Valley – Shreve Lodge	Cody	Park	\$124,120	\$3,130	\$119,130.00	22
6294	WYDOT – Rest Area	Lingle	Goshen	\$118,421	\$0.00	\$110,674.00	23
170	State Fair – Horse Barn F	Douglas	Converse	\$106,768	\$0.00	\$99,783.00	24
6157	WYDOT District 2 HQ – Storage	Casper	Natrona	\$104,208	\$102,894	\$212,231.00	25

20.8

Table 20.3—State Buildings Within 100 Feet of an Existing Landslide.

Building Number	Facility	City	County	Building Value	Content Value 2006	Total Value 2006	Rank
3017	Buffalo Bill State Park/ Eagle Valley – Superintendent’s Residence	Cody	Park	\$160,788	\$18,157	\$178,945	1
2018	Horse Creek BGWR Res/Office	Jackson	Teton	\$105,572	\$0	\$105,572	2
2946	Boysen State Park – Lower Wind River Campground Sanitary Facility Solar	Shoshoni	Fremont	\$48,150	\$150	\$48,300	3
3016	Boysen State Park – Lower Wind River Group Picnic Shelter	Shoshoni	Fremont	\$42,800	\$304	\$43,104	4
2792	Buffalo Bill State Park/ Sheep Mountain – Storage Shed	Cody	Park	\$40,326	\$0	\$40,326	5
2896	Buffalo Bill State Park/ Sheep Mountain – Group Shelter	Cody	Park	\$39,323	\$23,966	\$63,289	6
2540	Horse Creek BGWR Cabin/Office	Jackson	Teton	\$33,877	\$0	\$33,877	7
2543	Horse Creek BGWR Garage/Shop	Jackson	Teton	\$32,733	\$0	\$32,733	8
2538	Horse Creek BGWR Cabin	Jackson	Teton	\$29,176	\$0	\$29,176	9
2544	Horse Creek BGWR Barn	Jackson	Teton	\$24,140	\$0	\$24,140	10
2539	Horse Creek BGWR Cabin	Jackson	Teton	\$16,539	\$0	\$16,539	11
3202	Horse Creek Hay Shed	Jackson	Teton	\$15,738	\$0	\$15,738	12
2449	Hay Barn	Big Piney	Sublette	\$13,868	\$0	\$13,868	13
2593	Lack Creek Patrol Cabin	Meeteetse	Park	\$13,548	\$0	\$13,548	14
2547	Horse Creek BGWR Hay Shed	Jackson	Teton	\$13,381	\$0	\$13,381	15
3103	Horse Creek Hay Storage	Jackson	Teton	\$13,071	\$0	\$13,071	16
3102	Horse Creek Hay Storage	Jackson	Teton	\$13,071	\$0	\$13,071	17
2546	Horse Creek BGWR Hay Shed	Jackson	Teton	\$10,700	\$0	\$10,700	18
3583	Sinks Canyon State Park – Upper Popo Agie Sanitary Facility	Lander	Fremont	\$8,966	\$4,000	\$12,966	19
2542	Horse Creek BGWR Storage Shed 1	Jackson	Teton	\$5,236	\$0	\$5,236	20
	TOTAL			\$681,003	\$46,577	\$727,580	

Wildland Fire

Wildland fire exposure potential for state buildings was determined by crossing the building locations with “red zones” in the digital Wyoming Wildland Urban Interface Hazard Assessment map, produced by a joint venture of the Wyoming State Forestry Division, USFS, BLM, and the NPS. The final output is a Risk, Hazard, and Value (RHV) map displaying areas of concern (red zones) for catastrophic wildland fires. There are approximately 400 state buildings located within the wildland fire “red zones”. **Table 20.4** shows the top 100 state buildings located within the “red zones,” ranked by building value. Data for all buildings are available at the Wyoming Office of Homeland Security. The majority of all the buildings are under the jurisdiction of the Department of Parks and Cultural Resources, the Wyoming Game and Fish Department, and the Wyoming Department of Transportation. Of the 394 buildings, nine with combined total building and contents values of \$7,735,865 are located in Teton County; three with combined total building and contents values of \$5,105,455 are located in Campbell County; 48 with combined total building and contents values of \$3,317,489 are located in Albany County; 58 with combined total building and contents values of \$2,912,835 are located in Crook County; 39 with combined total building and contents values of \$2,877,023 are located in Park County; 36 with combined total building and contents values of \$2,697,033 are located in Sheridan County; 44 with combined total building and contents values of \$2,441,634 are located in Laramie County; 44 with combined total building and contents values of \$2,315,103 are located in Fremont County; nine with combined total building and contents values of \$2,066,532 are located in Lincoln County; 36 with combined total building and contents values of \$1,688,469 are located in Natrona County; 24 with combined total building and contents values of \$1,133,048 are located in Washakie County; ten with combined total building and contents values of \$767,012 are located in Johnson County; six with combined total building and contents values of \$243,927 are located in Hot Springs County; one with a total building and contents value of \$200,000 is located in Niobrara County; four with combined total building and contents values of \$199,666 are located in Sweetwater County; ten with combined total building and contents values of \$155,257 are located in Platte County; four with combined total building and contents values of \$122,309 are located in Carbon County; one with a total building and contents value of \$62,933 is located in Converse County; six with combined total building and contents values of \$63,559 are located in Sublette County; and one building each in Uinta and Weston counties. No buildings were identified in Big Horn and Goshen counties.

Historically, from August 1985 forward to 2011, there has been one wildland fire resulting in damage to state-owned property. The single event resulted in one monitoring station being burned and represents a loss of \$1,687. If the past 25 years represents a loss record which can be expected to continue into the future, wildland fires are a minimal risk to state properties with an estimated annual loss of \$67. Given the value of properties in locations identified as subject to wildland fires, past history may represent an accurate loss estimate given established mitigation efforts or it may merely reflect historical good fortune.

The values above only reflect the values of all state buildings located in all “red zones” identified in each county. The values are only to be used for comparison purposes, as not all buildings in each “red zone” in a county are expected to burn at once. The State of Wyoming has received the above data, which will be used to set long-term state priorities for the on-site evaluation and mitigation of risk to the buildings through established state processes. The data will also be used to evaluate compliance with 44 CFR 206.250, which sets forth certain insurance requirements that apply to disaster assistance provided by FEMA. More information on wildland fire can be found in Chapter 17.

Table 20.9—State Buildings Within Potential Wildland Fire "Red Zone" Areas.

Building Number	Facility	City	County	Building Value 2006	Content Value 2006	Total Value 2006	Rank
6510	WYDOT Office – Office, Shop	Jackson	Teton	\$7,569,928	\$625,762	\$7,475,082	1
6485	WYDOT – Office	Gillette	Campbell	\$5,107,239	\$420,440	\$5,012,365	2
6456	WYDOT – Rest Area	Laramie	Albany	\$2,165,259	\$1,501	\$2,025,108	3
6233	WYDOT – Rest Area	Sheridan	Sheridan	\$1,271,600	\$0	\$1,271,600	4
6353	Mule Creek Junction – Rest Area	Lusk	Niobrara	\$1,128,850	\$0	\$200,000	5
6061	WYDOT – Shop	Moorcroft	Crook	\$831,952	\$42,331	\$874,283	6
359	Armory	Afton	Lincoln	\$827,844	\$21,978	\$795,664	7
2735	Game and Fish District Office – Offices	Cody	Park	\$616,928	\$382,358	\$949,130	8
6040	WYDOT – Shop	Kemmerer	Lincoln	\$598,507	\$174,046	\$760,056	9
6234	WYDOT – Rest Area	Moorcroft	Crook	\$557,470	\$0	\$336,717	10
682	Curt Gowdy State Park – Hynds Lodge Area Historical	Cheyenne	Laramie	\$516,398	\$60,000	\$542,615	11
3955	Game and Fish Story Fish Hatchery – Hatchery	Story	Sheridan	\$417,193	\$41,360	\$434,801	12
3320	Fort Phil Kearny Historic Site – Visitor's Center	Story	Johnson	\$374,500	\$150,000	\$500,000	13
9052	Federal Building 14041 – OMS-4 Vehicle Storage	Cheyenne	Laramie	\$328,000	\$0	\$328,000	14
6447	Port of Entry – Offices	Casper	Natrona	\$309,236	\$57,810	\$367,046	15
2011	Game and Fish Ten Sleep Hatchery – Hatchery	Ten Sleep	Washakie	\$288,309	\$44,382	\$199,431	16
6152	WYDOT – South Pass Storage	South Pass	Fremont	\$269,408	\$36,869	\$306,277	17
6433	WYDOT – Port of Entry Office	Cheyenne	Laramie	\$233,064	\$54,019	\$312,793	18
3256	Game and Fish Sybille Research Unit – Ferret Facility	Wheatland	Albany	\$224,120	\$0	\$209,458	19
4470	Game and Fish Warden Station – Residence/Offices	Cody	Park	\$180,830	\$2794	\$169,000	20
308	Hot Springs State Park – Shop/Storage	Thermopolis	Hot Springs	\$179,881	\$0	\$179,881	21
3017	Buffalo Bill State Park/ Eagle Valley – Superintendent's Residence	Cody	Park	\$160,788	\$18,157	\$178,945	22
3645	Game and Fish Warden Station – Offices/Residence	Alpine	Lincoln	\$160,000	\$6,140	\$166,140	23
6432	WYDOT Facility Alpine Junction – Port of Entry	Alpine	Lincoln	\$140,141	\$15,252	\$155,393	24
463	South Pass City State Historic Site – Houghton/Colter Visitor Center	South Pass	Fremont	\$138,834	\$5,000.00	\$1143,834	25
6521	WYDOT – Storage	Rock Spring	Sweetwater	\$136,517	\$0.00	\$136,517	26
2185	Curt Gowdy State Park – Headquarters Area Shop/Office	Cheyenne	Laramie	\$132,196	\$141,480	\$273,676	27
2351	Game and Fish Story Fish Hatchery – Asst Residence Duplex	Story	Sheridan	\$130,559	\$0.00	\$130,559	28
2284	Curt Gowdy State Park – Headquarters Area Superintendent's Residence	Cheyenne	Laramie	\$130,000	\$3,000	\$133,000	29
1593	Buffalo Bill State Park – Assistant Park Superintendent	Cody	Park	\$129,482	\$14,000	\$143,482	30
799	Sinks Canyon State Park – Visitor's Center	Lander	Fremont	\$129,380	\$29,737	\$159,117	31
2987	Keyhole State Park – Headquarters Area Shop and Office Building	Moorcroft	Crook	\$128,528	\$162,073	\$290,601	32
2954	Keyhole State Park – Superintendent's Residence	Moorcroft	Crook	\$126,935	\$26,280	\$153,215	33
3697	Buffalo Bill State Park/ Eagle Valley – Shreve Lodge	Cody	Park	\$124,120	\$3,130	\$127,250	34
3189	Buffalo Bill State Park/ North Fork – Shop/Office	Cody	Park	\$118,605	\$126,074	\$244,679	35
6511	WYDOT – Storage	Jackson	Teton	\$112,349	\$0	\$112,349	36
3696	Buffalo Bill State Park / North Shore – Office and Headquarters	Cody	Park	\$105,930	\$22,570	\$128,680	37

Table 20.9—State Buildings Within Potential Wildland Fire "Red Zone" Areas.

Building Number	Facility	City	County	Building Value 2006	Content Value 2006	Total Value 2006	Rank
2659	Game and Fish Game Warden Station – Residence	Ten Sleep	Washakie	\$101,585	\$509	\$102,094	38
2659	Game Warden Station	Ten Sleep	Washakie	\$101,585	\$508	\$102,093	39
2988	Edness Kimball Wilkins State Park – Headquarters Shop and Office	Evansville	Natrona	\$100,491	\$103,547	\$197,464	40
2851	Sinks Canyon State Park – Headquarters at Rise Power House	Lander	Fremont	\$100,000	\$527	\$100,527	41
3014	Hot Springs State Park – Terrace Restroom	Thermopolis	Hot Springs	\$96,646	\$0	\$96,646	42
6495	WYDOT – Storage	Gillette	Campbell	\$99,606	\$0	\$99,606	43
2953	Edness Kimball Wilkins State Park – Superintendent's Residence	Evansville	Natrona	\$96,534	\$17,000	\$113,534	44
2214	Sinks Canyon State Park – Headquarters Superintendent's Residence	Lander	Fremont	\$95,550	\$12,886	\$108,436	45
2662	Game and Fish Wigwam Rearing Station – Residence #1	Ten Sleep	Washakie	\$91,601	\$0	\$91,601	46
1143	Game and Fish Wigwam Rearing Station – Residence #4	Ten Sleep	Washakie	\$89,483	\$5,186	\$94,669	47
759	Game and Fish Ten Sleep Hatchery – Supt House	Ten Sleep	Washakie	\$86,391	\$5,346	\$91,737	48
3719	South Pass City State Historic Site – Pest House	South Pass	Fremont	\$86,000	\$3,186	\$89,186	49
2277	South Pass City State Historic Site – Sanitary Facility	South Pass	Fremont	\$85,600	\$0	\$85,600	50
751	Game and Fish Sheridan Bird Farm – Residence/Supt House	Sheridan	Sheridan	\$84,021	\$42,415	\$126,436	51
3812	South Pass City State Historic Site – 1bdm Residence w/garage	South Pass	Fremont	\$83,460	\$399	\$83,859	52
1346	Game and Fish Story Fish Hatchery – Asst Supt Residence	Story	Sheridan	\$82,085	\$4,531	\$86,616	53
2403	Game and Fish Speas Fish Hatchery – Office/Garage	Casper	Natrona	\$81,709	\$8,128	\$89,837	54
2679	Game and Fish Sybille Research Unit – Residence #1	Wheatland	Albany	\$80,730	\$0	\$80,730	55
4711	Keyhole State Park – Assistant Superintendant Residence	Moorcroft	Crook	\$80,250	\$0	\$80,250	56
2663	Game and Fish Wigwam Rearing Station – Residence #2	Ten Sleep	Washakie	\$79,838	\$5,127	\$84,965	57
475	South Pass City State Historic Site – DanceHall/Shop	South Pass	Fremont	\$79,441	\$2,957	\$82,398	58
4528	Game and Fish Sybille Conservation Center – Research Center	Wheatland	Albany	\$79,000	\$0	\$79,000	59
2664	Game and Fish Wigwam Rearing Station – Residence #3	Ten Sleep	Washakie	\$75,910	\$0	\$75,910	60
2124	Laramie Peak Garrett Rt	Rock River	Albany	\$75,881	\$2,758	\$78,639	61
476	South Pass City State Historic Site – Jail	South Pass	Fremont	\$74,900	\$0	\$74,900	62
782	Game and Fish Warden Station House – Residence	Dayton	Sheridan	\$73,236	\$12,134	\$85,370	63
2634	Game and Fish Sheridan Bird Farm – Shop Bldg	Sheridan	Sheridan	\$73,233	\$4,200	\$77,433	64
2007	Game and Fish Table Mountain BGU House – House	Wheatland	Albany	\$72,376	\$7,775	\$80,151	65
2024	Game and Fish Sybille Research Unit – Residence #3	Wheatland	Albany	\$70,673	\$87,815	\$158,488	66
3430	Curt Gowdy State Park – Modular House	Cheyenne	Laramie	\$69,550	\$1,000	\$70,550	67
3813	South Pass City State Historic Site – 2bdm Residence w/attached garage	South Pass	Fremont	\$69,550	\$0	\$69,550	68
2215	Sinks Canyon State Park – Headquarters Shop	Lander	Fremont	\$65,296	\$60,351	\$125,647	69
6154	WYDOT – South Pass Dwelling	South Pass	Fremont	\$64,593	\$0	\$64,593	70
6155	WYDOT – South Pass Dwelling	South Pass	Fremont	\$64,365	\$0	\$4,365	71
6153	WYDOT – South Pass Dwelling	South Pass	Fremont	\$64,037	\$0	\$64,037	72
6156	WYDOT – South Pass Dwelling	South Pass	Fremont	\$64,037	\$0	\$64,037	73

Table 20.9—State Buildings Within Potential Wildland Fire "Red Zone" Areas.

Building Number	Facility	City	County	Building Value 2006	Content Value 2006	Total Value 2006	Rank
2680	Game and Fish Sybille Research Unit – House #3	Wheatland	Albany	\$63,706	\$0	\$63,706	74
2275	South Pass City State Historic Site – Rock Shed	South Pass	Fremont	\$62,270	\$0	\$62,270	75
1144	Game and Fish Speas Fish Hatchery – Residence #1	Casper	Natrona	\$61,329	\$76,167	\$137,496	76
2356	Game and Fish Speas Fish Hatchery – Residence #2	Casper	Natrona	\$61,329	\$0	\$61,329	77
2357	Game and Fish Speas Fish Hatchery – Residence #3	Casper	Natrona	\$61,329	\$0	\$61,329	78
2358	Game and Fish Speas Fish Hatchery – Residence #4	Casper	Natrona	\$61,329	\$0	\$61,329	79
2359	Game and Fish Speas Fish Hatchery – Residence #5	Casper	Natrona	\$61,329	\$0	\$61,329	80
3816	Curt Gowdy State Park – Camp Russell Site Group Shelter	Cheyenne	Laramie	\$61,263	\$0	\$61,263	81
3817	Curt Gowdy State Park – Sherman Hills Group Shelter	Cheyenne	Laramie	\$58,588	\$0	\$58,588	82
467	South Pass City State Historic Site – Law Office	South Pass	Fremont	\$54,033	\$200	\$54,233	83
2371	Game and Fish Ten Sleep Hatchery – Asst Supt Residence	Ten Sleep	Washakie	\$54,028	\$792	\$54,820	84
2216	Sinks Canyon State Park – Headquarters Guest House	Lander	Fremont	\$53,601	\$1,691	\$55,292	85
2644	Game and Fish Sheridan Bird Farm – Asst House & Garage	Sheridan	Sheridan	\$53,369	\$509	\$53,878	86
3569	Fort Phil Kearny Historic Site – Sanitary Facility	Story	Johnson	\$50,203	\$0	\$50,203	87
3795	Fort Phil Kearny Historic Site – Shop/Storage	Story	Johnson	\$48,150	\$40,000	\$88,150	88
2964	Keyhole State Park – Trailer Dump Station/Water Treat Plant Pump House	Moorcroft	Crook	\$48,150	\$150	\$48,300	89
2946	Boysen State Park – Lower Wind River Campground Sanitary Facility Solar	Shoshoni	Fremont	\$48,150	\$150	\$48,300	90
3751	Boysen State Park – Upper Wind River Sanitary Facility	Shoshoni	Fremont	\$47,141	\$4,000	\$51,141	91
2372	Game and Fish Ten Sleep Hatchery – Culturists Residence	Ten Sleep	Washakie	\$46,668	\$792	\$47,460	92
3849	Assistant Superintendent Residence & Storage – Assistant Superintendent	Moorcroft	Crook	\$45,703	\$0	\$45,703	93
6267	WYDOT – Nine Mile Hill Communications	Rawlins	Carbon	\$45,372	\$58,295	\$103,667	94
2666	Game and Fish Wigwam Rearing Station – Office/Feed Bldg	Ten Sleep	Washakie	\$45,274	\$7,734	\$53,008	95
3709	Curt Gowdy State Park – Causeway Campground Sanitary Facility	Cheyenne	Laramie	\$44,947	\$0	\$44,947	96
3749	Curt Gowdy State Park – Twin Lakes Creek Sanitary Facility	Cheyenne	Laramie	\$44,942	\$0	\$44,942	97
3021	Keyhole State Park – Homestead Campground Sanitary Facility	Moorcroft	Crook	\$44,940	\$0	\$44,940	98
3858	Buffalo Bill State Park / Eagle Point – Sanitary Facility	Cody	Park	\$44,940	\$0	\$44,940	99
3854	Buffalo Bill State Park / Marquette – Sanitary Facility	Cody	Park	\$44,940	\$0	\$44,940	100
3691	Buffalo Bill State Park / North Shore – Sanitary Facility	Cody	Park	\$44,940	\$0	\$44,940	100
3693	Buffalo Bill State Park / North Shore – Sanitary Facility	Cody	Park	\$44,940	\$0	\$44,940	100
3694	Buffalo Bill State Park / North Shore – Sanitary Facility	Cody	Park	\$44,940	\$0	\$44,940	100
3695	Buffalo Bill State Park / North Shore – Sanitary Facility	Cody	Park	\$44,940	\$0	\$44,940	100
3860	Buffalo Bill State Park / Trout Creek – Sanitary Facility	Cody	Park	\$44,940	\$0	\$44,940	100
3861	Buffalo Bill State Park / Trout Creek – Sanitary Facility	Cody	Park	\$44,940	\$0	\$44,940	110
2960	Buffalo Bill State Park/ Eagle Valley – Sanitary Facility Solar/Handicap	Cody	Park	\$44,940	\$0	\$44,940	100
3496	Buffalo Bill State Park/ North Fork – Sanitary Facility	Cody	Park	\$44,940	\$899	\$45,839	100

Liquefaction

State buildings that could be exposed to liquefaction during a large earthquake were defined by digitizing liquefaction potential maps for western Wyoming and digitally crossing building locations with the liquefaction maps. **Table 20.10** shows the 125 state buildings that could be potentially exposed to liquefaction. Of the 125 buildings, 59 with combined total building and contents values of \$49,814,348 are located in Uinta County; 26 with combined total building and contents values of \$12,557,959 are located in Teton County; 20 with combined total building and contents values of \$8,014,841 are located in Fremont County; 13 with combined total building and contents values of \$362,169 are located in Sublette County; and seven with combined total building and contents values of \$256,134 are located in Lincoln County. These counties are included in the top six counties for total building liquefaction exposure in **Table 13.1** of Chapter 13.

Not all areas flagged as having liquefaction potential will liquefy during a large earthquake. As such, the building values above should only be used for comparison purposes. The State of Wyoming has received the above data, which will be used to set long-term state priorities for the on-site evaluation and mitigation of risk to the buildings through established state processes. The data will also be used to evaluate compliance with 44 CFR 206 250, which sets forth certain insurance requirements that apply to disaster assistance provided by FEMA.

Table 20.10—State Buildings Within Possible Liquefaction Areas.

Building Number	Facility	City	County	Building Value 2006	Content Value 2006	Total Value 2006	Rank
9063	State Hospital Bldg 33 – Adult Care Facility	Evanston	Uinta	\$8,700,000	\$0	\$8,700,000.00	1
9064	State Hospital Bldg 23 – Karn/Johnson Correction Complex	Evanston	Uinta	\$8,627,538	\$303,868	\$8,931,406.00	2
9065	WYDOT Office – Office, Shop	Jackson	Teton	\$7,089,556	\$385,526	\$7,475,082.00	3
9066	Game and Fish District Headquarters – Offices	Jackson	Teton	\$3,167,842	\$0	\$3,167,842.00	4
9067	State Hospital Bldg 18 – Campbell/Uinta Clinic/Pharm/Rms	Evanston	Uinta	\$2,334,407	\$400,914	\$2,735,321.00	5
9068	State Hospital Bldg 10 – Teton/Sweetwater	Evanston	Uinta	\$2,193,011	\$195,994	\$2,389,005.00	6
9069	State Hospital Bldg 17 – Bighorn/Goshen Admissions	Evanston	Uinta	\$2,143,168	\$155,945	\$2,299,113.00	7
9070	State Hospital Bldg 5 – Natrona/Laramie Hall	Evanston	Uinta	\$2,099,063	\$325,577	\$2,424,640.00	8
9071	State Hospital Bldg 4 – Fremont/Albany Old Dorm/Training	Evanston	Uinta	\$1,974,509	\$167,014	\$2,141,523.00	9
9072	State Hospital Bldg 3 – Lincoln/Platte Washakie Halls	Evanston	Uinta	\$1,924,250	\$98,872	\$2,023,122.00	10
9073	State Hospital Bldg 6 – Admin. Building (Connected to 7)	Evanston	Uinta	\$1,904,615	\$585,536	\$2,490,151.00	11
9074	Training School – Emerson School Day Program	Lander	Fremont	\$1,839,058	\$167,715	\$2,006,773.00	12
9075	State Hospital Bldg 7 – Converse/Weston Admin. Offices	Evanston	Uinta	\$1,804,775	\$225,031	\$2,029,806.00	13
9076	State Hospital Bldg 16 – Clark Hall Dormitory	Evanston	Uinta	\$1,676,428	\$72,936	\$1,749,364.00	14
9077	State Hospital Bldg 2 – Boiler House Building	Evanston	Uinta	\$1,596,578	\$4,328	\$1,600,906.00	15
9078	Training School – Administration Building	Lander	Fremont	\$1,461,494	\$284,528	\$1,746,022.00	16
9079	Training School – Hunt Center Day Care	Lander	Fremont	\$933,219	\$12,403	\$945,622.00	17
9080	State Hospital Bldg 12 – Cafeteria	Evanston	Uinta	\$914,757	\$400,318	\$1,315,075.00	18
9081	Game & Fish – DOT Purchase	Jackson	Teton	\$905,000	\$0	\$905,000.00	19
9082	State Hospital Bldg 27 – Laundry Building	Evanston	Uinta	\$798,995	\$193,281	\$992,276.00	20
9083	State Hospital Bldg 11 – Sheridan Hall	Evanston	Uinta	\$659,797	\$48,772	\$708,569.00	21
9084	Training School – Maghee Cottage Storage/Warehouse	Lander	Fremont	\$509,547	\$43,184	\$552,731.00	22
9085	State Hospital Bldg 15 – Clark Hall Annex Staff/Res. Apt.	Evanston	Uinta	\$487,981	\$41,975	\$529,956.00	23
9086	State Hospital Bldg 30 – Tunnel Access Bldg. & System	Evanston	Uinta	\$445,621	\$0	\$445,621.00	24
9087	State Hospital Bldg 14 – Visitor's Center	Evanston	Uinta	\$436,206	\$47,914	\$484,120.00	25
9088	Training School – Coleman Training Center	Lander	Fremont	\$410,542	\$66,166	\$476,708.00	26
9089	Training School – Chapel	Lander	Fremont	\$374,583	\$25,560	\$400,143.00	27
9090	State Hospital Bldg 13 – Electrical & Plumbing Shop	Evanston	Uinta	\$369,644	\$74,056	\$443,700.00	28
9091	Bear River State Park – Cultural Commission./Information Center	Evanston	Uinta	\$362,524	\$50,000	\$412,524.00	29
9092	State Hospital Bldg 29 – Maintenance Shop & Building	Evanston	Uinta	\$355,060	\$143,960	\$499,020.00	30
9093	State Hospital Bldg 22 – Superintendent Res.	Evanston	Uinta	\$349,910	\$4,425	\$354,335.00	31
9094	State Hospital – Rec. Ctr. & Gym	Evanston	Uinta	\$339,565	\$0	\$339,565.00	32

Table 20.10—State Buildings Within Possible Liquefaction Areas.

Building Number	Facility	City	County	Building Value 2006	Content Value 2006	Total Value 2006	Rank
9095	State Hospital Bldg 34 – Freedom Home Residential Complex	Evanston	Uinta	\$288,094	\$75,000	\$363,094.00	33
9096	Training School – Spruce Cottage Offices	Lander	Fremont	\$253,573	\$36,816	\$290,389.00	34
9097	Training School – Wilson Manor Guest House	Lander	Fremont	\$253,462	\$11,177	\$264,639.00	35
9098	State Hospital – Chapel Area	Evanston	Uinta	\$237,986	\$0	\$237,986.00	36
9099	WYDOT – Shop	Evanston	Uinta	\$228,544	\$209,644	\$438,188.00	37
9100	State Hospital Bldg 9 – Duplex Residence	Evanston	Uinta	\$227,211	\$1,559	\$228,770.00	38
9101	State Hospital Bldg 20 – Grounds	Evanston	Uinta	\$214,850	\$71,691	\$286,541.00	39
9102	Training School – Lodge Manor	Lander	Fremont	\$190,987	\$5,000	\$195,987.00	40
9103	Bear River State Park South End – Restrooms	Evanston	Uinta	\$184,530	\$316	\$184,846.00	41
9104	State Hospital Bldg 31 – Maintenance Shop Building	Evanston	Uinta	\$181,345	\$15,000	\$196,345.00	42
9105	Training School – Client's Residential	Lander	Fremont	\$175,063	\$22,950	\$198,013.00	43
9106	Training School – Client's Residential	Lander	Fremont	\$175,063	\$22,543	\$197,606.00	44
9107	Training School – Superintendent Residence	Lander	Fremont	\$168,466	\$5,000	\$173,466.00	45
9108	Bear River State Park – Shop	Evanston	Uinta	\$167,608	\$51,909	\$219,517.00	46
9109	WYDOT – Storage, Stockpile	Evanston	Uinta	\$158,253	\$0	\$158,253.00	47
9110	Bear River State Park – Residence	Evanston	Uinta	\$151,660	\$2,000	\$153,660.00	48
9111	Game and Fish District 1 Office – Offices	Jackson	Teton	\$144,202	\$87,765	\$231,967.00	49
9112	Training School – Residence	Lander	Fremont	\$143,176	\$28,178	\$171,354.00	50
9113	WYDOT – Storage	Evanston	Uinta	\$139,318	\$95,904	\$235,222.00	51
9114	State Hospital Bldg 8 – Staff Residence	Evanston	Uinta	\$136,638	\$0	\$136,638.00	52
9115	State Hospital Bldg 15 – Residence Staff Housing	Evanston	Uinta	\$133,761	\$3,186	\$136,947.00	53
9116	WYDOT – Storage	Jackson	Teton	\$104,999	\$0	\$104,999.00	54
9117	State Hospital Bldg 25 – Maintenance	Evanston	Uinta	\$104,455	\$4,380	\$108,835.00	55
9118	Training School – Farm Dwelling	Lander	Fremont	\$99,432	\$573	\$100,005.00	56
9119	Game and Fish Boulder Fish Hatchery – Utility Building/Shop/Office	Boulder	Sublette	\$91,984	\$0	\$91,984.00	57
9120	Game and Fish North Warden Station – Office/Residence	Jackson	Teton	\$87,158	\$0	\$87,158.00	58
9121	Warden Station South – Office/Residence	Jackson	Teton	\$87,158	\$0	\$87,158.00	59
9122	State Hospital Bldg 26 – Repair Shop	Evanston	Uinta	\$82,482	\$4,669	\$87,151.00	60
9123	Game and Fish Game Warden Station – Residence	Cokeville	Lincoln	\$79,500	\$0	\$79,500.00	61
9124	Training School – Training Center Annex	Lander	Fremont	\$78,875	\$30,000	\$108,875.00	62
9125	Game and Fish Boulder Fish Hatchery – Asst House/Residence #1	Boulder	Sublette	\$72,203	\$1,184	\$73,387.00	63
9126	Bear River State Park – Picnic Shelter	Evanston	Uinta	\$68,226	\$27,133	\$95,359.00	64

Table 20.10—State Buildings Within Possible Liquefaction Areas.

Building Number	Facility	City	County	Building Value 2006	Content Value 2006	Total Value 2006	Rank
9127	Bear River State Park – Restroom	Evanston	Uinta	\$64,000	\$0	\$64,000.00	65
9128	Bear River State Park – Pavilion/Picnic Shelter	Evanston	Uinta	\$62,842	\$3,299	\$66,141.00	66
9129	Bear River State Park – Restroom/ Information Center	Evanston	Uinta	\$61,510	\$1,810	\$63,320.00	67
9130	State Hospital Bldg 24 – Butcher Shop & Storage	Evanston	Uinta	\$60,408	\$3,981	\$64,389.00	68
9131	Game and Fish Boulder Fish Hatchery – Temporary House/Residence	Boulder	Sublette	\$57,016	\$150	\$57,166.00	69
9132	Training School – Stained Glass	Lander	Fremont	\$52,947	\$0	\$52,947.00	70
9133	Training School – Campus Security	Lander	Fremont	\$49,548	\$23,886	\$73,434.00	71
9134	Game and Fish District 1 Office – Garage – D.O.	Jackson	Teton	\$46,480	\$0	\$46,480.00	72
9135	State Hospital – Greenhouse	Evanston	Uinta	\$45,388	\$0	\$45,388.00	73
9136	WYDOT – Storage	Evanston	Uinta	\$42,290	\$0	\$42,290.00	74
9137	Game and Fish Greys River Feed ground – Hay Shed #1	Alpine	Lincoln	\$42,059	\$0	\$42,059.00	75
9138	Southpark BGWR Hay Shed 2	Jackson	Teton	\$41,013	\$0	\$41,013.00	76
9139	Southpark BGWR Hay Shed 3	Jackson	Teton	\$37,371	\$0	\$37,371.00	77
9140	Training School – Wilson Manor Garage and Porch	Lander	Fremont	\$37,002	\$0	\$37,002.00	78
9141	Southpark FDGR Hay Storage 1	Jackson	Teton	\$32,113	\$0	\$32,113.00	79
9142	WYDOT – Rest Area	Afton	Lincoln	\$31,000	\$0	\$31,000.00	80
9143	State Hospital – Detached Garage	Evanston	Uinta	\$30,690	\$0	\$30,690.00	81
9144	Game and Fish Boulder Fish Hatchery – Asst. Supt Residence	Boulder	Sublette	\$25,158	\$0	\$25,158.00	82
9145	Patrol Cabin, Squirrel MDOS	Moran	Teton	\$24,998	\$0	\$24,998.00	83
9146	Game and Fish Boulder Fish Hatchery – Supt. Residence	Boulder	Sublette	\$24,639	\$0	\$24,639.00	84
9147	Game and Fish District 1 Office – Shop – D.O.	Jackson	Teton	\$23,449	\$11,991	\$35,440.00	85
9148	Game and Fish Boulder Fish Hatchery – Storage Shed	Boulder	Sublette	\$22,419	\$0	\$22,419.00	86
9149	Game and Fish Garage – Storage	Cokeville	Lincoln	\$22,247	\$0	\$22,247.00	87
9150	Patrol Shed	Moran	Teton	\$21,462	\$0	\$21,462.00	88
9151	Bear River State Park – Grain Bin	Evanston	Uinta	\$19,542	\$853	\$20,395.00	89
9152	Training School – Detached Garage/Shed	Lander	Fremont	\$19,022	\$0	\$19,022.00	90
9153	Game and Fish Boulder Fish Hatchery – Garage #1/3 Stall Garage	Boulder	Sublette	\$17,899	\$0	\$17,899.00	91
9154	Game and Fish Boulder Fish Hatchery – Isolation Tank	Boulder	Sublette	\$15,000	\$0	\$15,000.00	92
9155	Bear River State Park South End – Picnic Shelter	Evanston	Uinta	\$14,991	\$1,341	\$16,332.00	93
9156	Bear River State Park South End – Picnic Shelter	Evanston	Uinta	\$14,991	\$14,991	\$29,982.00	94
9157	Bear River State Park South End Bison Area – Picnic Shelter	Evanston	Uinta	\$14,991	\$2,915	\$17,906.00	95
9158	Southpark Hay Shed	Jackson	Teton	\$14,708	\$0	\$14,708.00	96

Table 20.10—State Buildings Within Possible Liquefaction Areas.

Building Number	Facility	City	County	Building Value 2006	Content Value 2006	Total Value 2006	Rank
9159	Game and Fish Boulder Fish Hatchery – Muddy Creek Shed/Hay Storage	Boulder	Sublette	\$13,150	\$0	\$13,150.00	97
9160	Southpark Feed Grounds Scale Storage	Jackson	Teton	\$12,216	\$0	\$12,216.00	98
9161	State Hospital Bldg 29A – Equipment Storage Shed	Evanston	Uinta	\$12,105	\$0	\$12,105.00	99
9162	Game and Fish Storage Shed – Hay Shed #1	Alpine	Lincoln	\$11,952	\$0	\$11,952.00	100
9163	State Hospital Bldg 28 – Main Pump House Building	Evanston	Uinta	\$11,600	\$0	\$11,600.00	101
9164	Game and Fish Greys River Feed ground – Hay Shed #2	Alpine	Lincoln	\$11,406	\$0	\$11,406.00	102
9165	Game and Fish Trainee Trailer – Mobile Home	Jackson	Teton	\$10,361	\$0	\$10,361.00	103
9166	Trainee Trailer	Jackson	Teton	\$10,351	\$0	\$10,351.00	104
9167	Game and Fish Boulder Fish Hatchery – Garage #2/2 Stall Garage	Boulder	Sublette	\$9,152	\$0	\$9,152.00	105
9168	Bear River State Park – Hay Barn	Evanston	Uinta	\$8,370	\$0	\$8,370.00	106
9169	Southpark BGWR Barn/Corrals	Jackson	Teton	\$8,012	\$0	\$8,012.00	107
9170	Game and Fish Boulder Fish Hatchery – Storage Shed	Boulder	Sublette	\$7,715	\$0	\$7,715.00	108
9171	Game and Fish South Warden Station – Garage	Jackson	Teton	\$7,475	\$0	\$7,475.00	109
9172	Patrol Shed	Moran	Teton	\$7,327	\$0	\$7,327.00	110
9173	Patrol Cabin at Thoroughfare	Cody	Teton	\$6,679	\$0	\$6,679.00	111
9174	Bear River State Park – Storage Building	Evanston	Uinta	\$6,000	\$0	\$6,000.00	112
9175	Training School – HazMat Building	Lander	Fremont	\$4,103	\$0	\$4,103.00	113
9176	State Hospital 32 33 – Lake Pump House Building #1-2	Evanston	Uinta	\$3,896	\$0	\$3,896.00	114
9177	Bear River State Park – Storage Building	Evanston	Uinta	\$3,516	\$0	\$3,516.00	115
9178	Game and Fish Boulder Fish Hatchery – Spawning House/Fish Spawning	Boulder	Sublette	\$2,500	\$0	\$2,500.00	116
9179	Game and Fish Boulder Fish Hatchery – Small Pump House	Boulder	Sublette	\$2,000	\$0	\$2,000.00	117
9180	State Hospital – Pumphouse #3	Evanston	Uinta	\$1,558	\$0	\$1,558.00	118
9181	Department of Education – Office/Storage	Cokeville	Lincoln	\$0	\$57,970	\$57,970.00	119
9182	DCI – Offices	Jackson	Teton	\$0	\$85,000	\$85,000.00	120
9183	Department of Employment – WSCD, ETD	Jackson	Teton	\$0	\$18,709	\$18,709.00	121
9184	Department of Workforce Services – ERD, DVR	Jackson	Teton	\$0	\$70,635	\$70,635.00	122
9185	Department of Health – WIC Office	Jackson	Teton	\$0	\$8,403	\$8,403.00	123
9186	State Hospital Bldg 19 – Hot Springs Hall Therapeutic Ctr.	Evanston	Uinta	\$0	\$0	\$0.00	124
9187	State Hospital Bldg 25C – Storage	Evanston	Uinta	\$0	\$0	\$0.00	125
	TOTAL			\$65,360,142	\$5,645,309	\$71,005,451.00	

Expansive Soils

State buildings that can be exposed to expansive soils were defined by first generating a generalized digital expansive soils map from the Geologic map of Wyoming, and then crossing the building locations with the flagged soil areas. Chapter 7, **Expansive soils**, addresses inconsistencies between building exposures and actual reported damages. Building exposures are high, and reported damages are low for all buildings in the state exposed to expansive soils. It appears that many potential expansive soil problems are mitigated during construction. There are seven state buildings, however, that are located on expansive soils (**Table 20.11**). Of the 7 buildings, two with combined total building and contents values of \$1,267,046 are located in Natrona County; three with combined total building and contents values of \$170,564 are located in Lincoln County; one with a total building and contents value of \$7,900 is located in Crook County; and one, the Upton Rest Area, is located in Weston County.

The State of Wyoming has received the above data, which will be used to set long-term state priorities for the on-site evaluation and mitigation of risk to the buildings through established state processes. The data will also be used to evaluate compliance with 44 CFR 206.250, which sets forth certain insurance requirements that apply to disaster assistance provided by FEMA.

Building Number	Facility	City	County	Building Value 2006	Content Value 2006	Total Value 2006	Rank
0028	School for the Deaf – Classrooms, Office, and Storage	Casper	Natrona	\$1,143,519.00	\$50,000.00	\$1,193,519.00	1
3151	Game and Fish West Warden Station – Office/Residence	Casper	Natrona	\$73,527.00	\$0.00	\$73,527.00	2
6268	Oyster Ridge – Communications	Kemmerer	Lincoln	\$34,049.00	\$128,617.00	\$162,666.00	3
6559	WYDOT – Storage, Loader	Hulett	Crook	\$7,900.00	\$0.00	\$7,900.00	4
6319	WYDOT – Storage	Kemmerer	Lincoln	\$5,589.00	\$0.00	\$5,589.00	5
6427	WYDOT Facility – Field Lab	Kemmerer	Lincoln	\$0.00	\$2,309.00	\$2,309.00	6
6237	Upton Rest Area	Upton	Weston	\$0.00	\$0.00	\$0.00	7
	TOTAL			\$1,264,584.00	\$180,926.00	\$1,445,510.00	

Additional Hazards

In 2011 an historical review of insurance claims on state property was conducted. Flooding and wildland fire were mentioned in previous sections of this chapter. The review revealed there were several hazards not addressed in this chapter in previous editions of the State’s Multi-Hazard Mitigation Plan. Additionally, one hazard has never been addressed in the State’s mitigation plan to this point and will be addressed in the next Multi-hazard Mitigation Plan Update.

Those hazards not addressed in previous editions of this plan include hail, lightning, winter storm, summer storms/rain, and tornado. These hazards represent a significant financial loss to the state over the past 25+ years and represent a significant loss potential into the future, if we

can assume losses in the past represent anticipated losses into the future. A spreadsheet documenting past insurance claims is attached to this document as an appendix and a ranking of losses based on historical losses experienced by the state is outlined in Table 20.12b. Following is an analysis of those losses, assuming what's happened in the past will continue into the future:

HAIL

Wyoming is part of the 'hail belt' within the United States. The state has consistently experienced hail storms. Historically Wyoming State Government property has experienced 98 damaging hail events totaling \$1.8 million in the 307-month period from August, 1985 through February, 2011. If we can assume past experience will continue into the future, the state can anticipate 3-4 damaging hail events to its structures each year ($[98 \text{ events} / 307 \text{ months} = .32 \text{ events each month}] * 12 \text{ months} = 3.84 \text{ events annually}$). Historical experience would indicate annual hail event damages of \$70,380 can be anticipated ($[\$1,800,542.99 / 307 \text{ months}] * 12 \text{ months} = \$70,379.52$).

LIGHTNING

The state has historically experienced lightning damage to state government property. Historically Wyoming property has experienced 131 damaging lightning events totaling \$328,000 in the 307-month period from August, 1985 through February, 2011. If we can assume past experience will continue into the future, the state can anticipate 5 damaging lightning events to its structures each year ($[131 \text{ events} / 307 \text{ months} = .43 \text{ each month}] * 12 \text{ months} = 5.16 \text{ events annually}$). Given the number of anticipated annual damaging hail events and based on past experience, damages of \$12,829 can be anticipated annually ($[\$328,197.26 / 307 \text{ months}] * 12 \text{ months} = \$12,828.60$).

WINTER STORMS

Historically Wyoming State Government property has experienced 28 damaging winter storm events totaling \$220,000 in the 307-month period from August, 1985 through February, 2011. If we can assume past experience will continue into the future, the state can anticipate 1 damaging winter storm event to its structures each year ($[28 \text{ events} / 307 \text{ months} = .09 \text{ each month}] * 12 \text{ months} = 1.08 \text{ events annually}$). Given the number of anticipated annual damaging winter storm events, and given past experience, damages of \$8,592 can be anticipated annually ($[\$219,803.73 / 307 \text{ months}] * 12 \text{ months} = \$8,591.64$).

SUMMER STORMS/RAIN

Historically Wyoming's government property has experienced 8 damaging summer/rain storm events totaling \$24,877 in the 307-month period from August, 1985 through February, 2011. If we can assume past experience will continue into the future, the state can anticipate 1 damaging summer/rain storm event to its structures every three (3) years ($[8 / 307 = .03 \text{ each month}] * 12 \text{ months} = .36 \text{ events annually}$). Given the number of anticipated summer/rain storm events, and based on past experience, damages of \$972 can be anticipated annually ($[\$24,876.95 / 307 \text{ months}] * 12 \text{ months each year} = \972.36).

TORNADO

Historically Wyoming's government property has experienced 1 damaging tornado event totaling \$4,251 in the 307-month period from August, 1985 through February, 2011. If we can assume past experience will continue into the future, the state can anticipate 1 damaging tornado event to its structures every 26 years. Given the number of anticipated tornado events, and based on past experience, damages of \$166 can be anticipated annually ($[\$4,250.74 / 307 \text{ months}] * 12 \text{ months each year} = \166.20). Given the value of properties in locations around the state, any of which may be subject to tornados, past history may represent an accurate loss estimate or it may merely reflect historical good fortune.

WIND

As a result of observations by internal staff, and analysis of the documented losses resulting from wind damage to Wyoming's government structures, the next Multi-Hazard Mitigation Plan Update will include a state-wide wind hazard analysis. Wind has never been an analysed hazard in Wyoming's Multi-Hazard Mitigation Plan, perhaps because of its commonality in the state. Wyoming is known to experience wind consistently. Wyoming routinely experiences straight line winds of 40 – 50 miles per hour, with wind gusts far greater. This is documented by wind industry's interest in developing wind energy in Wyoming. This can be observed in the proposed construction of transmission lines and current construction of energy-producing wind turbines in recent years as a result of national interest in green, renewable energy. While wind is currently providing an economic boost to the state, it has also presented an historical hazard.

Historically Wyoming Government property has experienced 207 damaging wind events totaling \$841,000 in the 307-month period from August, 1985 through February, 2011 and ranks third in the State's natural hazard insurance claims. If we can assume past experience will continue into the future, the state can anticipate 8 damaging wind events to its structures each year ($[207 / 307 = .67 \text{ each month}] * 12 \text{ months} = 8.04 \text{ events annually}$). Given the number of anticipated annual damaging wind events, damages of \$33,000 can be anticipated annually ($[\$841,078.26 / 307 \text{ months}] * 12 \text{ months} = \$32,876.04$).

Summary

State buildings in Wyoming are potentially subjected to a number of hazards that may affect the stability of the buildings, endanger occupants, and result in a loss of services and/or monetary losses. In addition, the ability of some buildings to serve as shelters may be compromised because of natural hazards to which they be subjected. The analysis of the hazards also provides additional information to utilize in prioritizing mitigation efforts undertaken by the state to minimize unacceptable losses.

A rank of hazard priorities for state buildings is presented below in **Table 20.12**. Liquefaction only occurs during an earthquake, so building damage and exposure values are combined for those two hazards. The most significant hazard for state buildings is therefore earthquake/liquefaction. The total exposure value for buildings and contents in liquefaction prone areas is \$71,005,451 for 125 buildings. The average potential impact is \$568,044 per building. The total estimated value for earthquake damage to buildings and contents is \$64,704,374 for 2142 buildings, which results in an average impact of \$30,207 per building.

Therefore, the average potential impact of earthquakes and liquefaction would be \$593,251 per building. Flood and wildland fire hazards are similar in exposure values, although wildland fire has a total exposure value for buildings and contents of \$36,105,149 for 394 buildings, and flood has a total exposure value for buildings and contents of \$27,585,841 for 170 buildings. The average potential impact is greater for flood (\$162,279 per building) than for wildland fire (\$91,637 per building), so flood is ranked second and wildland fire is ranked third. The exposure value for landslides and state buildings is \$687,304 for 21 buildings, which results in a potential impact of \$32,728 per building. The exposure value for expansive soils and State buildings is \$1,445,510 for seven buildings, which results in a potential impact of \$206,500 per building. As there have been no reports of any such damage to State buildings, the expansive soil hazard is placed last.

Appropriate agencies within the State of Wyoming have received the above data, which will be used to set long-term state priorities for the on-site evaluation and mitigation of risk to the buildings through established state processes. The data will also be used to evaluate compliance with 44 CFR 206.250, which sets forth certain insurance requirements that apply to disaster assistance provided by FEMA

Table 20.12—Ranking of Hazards Potential Impacts on State Buildings based on Their Location 2008

Rank	Hazard	Total Impact (USD 2006)	Impact per Building 2006
1	Earthquake/Liquefaction	135,709,825	598,251
2	Flood	27,585,841	162,279
3	Wildland Fire	36,105,149	91,637
4	Landslide	687,304	32,728
5	Expansive Soils	Low	Low

Table 20.12b—Ranking of Hazards Potential Impacts on State Buildings Based on Historical Loss 1985 - 2011

Rank	Hazard	Number of Events	Historical Losses
1	Flood	28	\$2,237,130.33
2	Hail	98	\$1,800,542.99
3	Wind	207	\$841,078.26
4	Lightning	131	\$328,197.26
5	Winter Storm	28	\$219,803.73
6	Summer Storm/Rain	8	\$24,876.95
7	Tornado	1	\$4,250.74
8	Wildfire	1	\$1,687.35

*Wyoming Department of Risk Management 5/9/2011

Proposed State Mitigation Projects

The following mitigation projects have been proposed by state, federal, and local entities in the process of generating the Wyoming Multi-Hazard Mitigation Plan. Chapter 22 has all the proposed mitigation plans.

- Study on retrofit feasibility of state-owned buildings, essential facilities, and bridges.
- Propose that Wyoming's Department of A&I Procurement Division requires contracts for design/construction of all new state-owned or state-funded buildings include that facilities be built to the currently adopted building code, including the seismic provisions.
- Establish a non-structural retrofit program for high-risk state buildings.
- Inform state agencies that their buildings have been identified as being in a flood zone. Require that agencies with the highest risk exposure conduct an internal risk assessment.
- Inform state agencies of wildland fire potential and of their buildings at risk, and request that the agencies work to ensure that their property is wildland fire resistant.
- Inform state agencies that their buildings have been identified as being on or near a liquefaction-prone area, and request that agencies conduct a liquefaction potential analysis for buildings at highest risk.
- Inform state agencies that their buildings have been identified as being on or near a landslide, and request that agencies conduct a slope stability analysis for buildings at highest risk.

Reference Cited

Love, J.D. and Christiansen, A.C., 1985, Geologic map of Wyoming: U.S. Geological Survey, scale 1:500,000.