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# Dam Safety Project Priority List

05/31/2023

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**Department of Natural Resources**

**Dam Safety Program**

**500 Lafayette Road**

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## Dam Safety Project Priority List

The Minnesota Department of Natural Resources (DNR) prepares this dam safety project priority needs list as directed by Minnesota Statutes Section 103G.511, Subdivision 12. The DNR examined dams owned by the state and political subdivisions and prioritized those dams in need of repair, reconstruction, or removal. The DNR considered danger to life, damage to property, and the factors listed in Minnesota Statute 103G.511, Subdivision 6 when prioritizing the dams.

The top section of the priority list table includes completed dam safety projects, as well as currently funded projects that are not yet completed. Each line represents a certain project or phase of a project, so some dams are listed multiple times because there have been multiple projects or multiple phases of a project. The middle section is the priority list of 73 currently unfunded dam projects. The final section includes dams that are not prioritized, as they are significantly lower priority.

The hazard classification shown on the list relates to Minnesota Rule 6115.0340. A Class I dam failure would result in high consequences, including potentially the loss of human life; whereas a Class III dam failure would have minor consequences.

Cost estimates are preliminary. Actual project costs will depend on final project design and construction bids received.

Minnesota's public dam infrastructure includes 644 dams owned by the state, counties, cities, and watershed districts. The State of Minnesota owns 312 of these dams. Most of these public dams are over 50 years old and require ongoing repairs to maintain their structural integrity and prevent public safety hazards.

**Dam Safety Program - Project Priority Needs List**  
 Prepared as directed by Minnesota Statutes Section 103G.511, Subdivision 12  
 (Dollars in Thousands)

**DNR Ecological and Water Resources**  
 Updated May 31, 2023

Priority Ranking	Name	Owner	County	DNR Region	Hazard Class	Project Type	Est Cost (K)	State's Cost (K)	Cumulative State Cost (K)	Primary Needs	Comments
Complete	Byllesby	County	Dakota/Goodhue	3	1-High	Repair	\$7,600	\$3,800		safety	Completed in 2015. 2008-2010-2012 bonding
Complete	Pike River	DNR	St. Louis	2	2-Med.	Repair eng.	\$30	\$30		safety/maintain lake levels	Completed in 2016. 2012 bonding, design only
Complete	Coon Rapids	County	Hennepin	3	2-Med.	Repair/modify	\$16,000	\$16,000		safety	Completed in 2016. 2012 bonding
Complete	Champlin Mill Pond	City	Hennepin	3	2-Med.	Repair/modify	\$3,800	\$3,000		safety	Completed in 2016. 2010 and 2014 bonding
Complete	Balsam Lake	DNR	Itasca	2	3-Low	Repair	\$300	\$300		safety/maintain lake levels	Completed in 2017. 2012 bonding
Complete	St. Cloud	City	Stearns	3	1-High	Repair	\$3,612	\$700		safety	Completed in 2017. 2012 bonding, Obermeyer gates
Complete	Pelican Rapids	City	Otter Tail	1	1-High	Repair eng.	\$45	\$22		safety	Completed in 2017. 2012 bonding, design
Complete	Little Stone Lake	County	St. Louis	2	2-Med.	Repair	\$200	\$100		safety	Completed in 2017. 2017 bonding, culverts
Complete	Shady Lake	County	Olmsted	3	2-Med.	Remove	\$1,350	\$1,350		safety	Completed in 2018. 2011 and 2012 bonding
Complete	Byllesby	County	Dakota/Goodhue	3	1-High	Repair	\$3,100	\$1,522		safety	Completed in 2018. 2014 and 2017 bonding
Complete	Collinwood	DNR	Meeker	4	3-Low	Repair	\$318	\$318		safety/maintain lake levels	Completed in 2018. 2017 bonding, emergency
Complete	Rapidan	County	Blue Earth	4	2-Med.	Repair	\$2,400	\$2,400		safety	Completed in 2019. 2014 bonding
Complete	Lake Bronson	DNR	Kittson	1	1-High	Rehab. eng.	\$400	\$400		safety/maintain lake levels	Completed in 2019. 2012 bonding, pre-design
Complete	Esquagama Lake	DNR	St. Louis	2	3-Low	Repair/modify	\$50	\$50		maintain lake levels	Completed in 2020. 2017 bonding
Complete	Lanesboro	City	Fillmore	3	1-High	Repair/rehab	\$4,266	\$4,266		safety/historical preservation	Completed in 2021. 2017 bonding and 2021 GF
Complete	Lake Carlos	DNR	Douglas	1	3-Low	Modify	\$8	\$8		maintain lake levels	Completed in 2021. 2017 bonding, emergency
Complete	Pike River	DNR	St. Louis	2	2-Med.	Repair	\$25	\$25		safety/maintain lake levels	Completed in 2021. 2017 bonding, emergency
Complete	Willow River	DNR	Pine	2	2-Med.	Modify	\$2,000	\$2,000		safety	Completed in 2022. 2017 and 2020 bonding
Complete	West Leaf Lake	DNR	Otter Tail	1	3-Low	Repair	\$44	\$44		maintain lake levels	Completed in 2022. 2017 bonding, rock rapids
Complete	High Island Lake	DNR	Sibley	4	3-Low	Replace	\$275	\$275		safety/maintain lake levels	Completed in 2022. 2017 bonding
Complete	Norway Lake	City	Cass	1	1-High	Rehab. eng.	\$400	\$200		safety	Completed in 2022. 2017 bonding, design
funded FY17	Brawner	DNR	Lyon	4	3-Low	Repair/remove	\$700	\$700		safety	To be completed in 2023. 2017 bonding. Failure 2015
funded FY17	Pelican Rapids	City	Otter Tail	1	1-High	Repair eng.	\$1,000	\$500		safety	To be completed in 2023. 2017 bonding, removal
funded FY17	Sullivan Lake	DNR	Morrison	3	3-Low	Replace	\$200	\$200		maintain lake levels	Abutment- Local support, earth work
funded FY17	Grindstone River (Hinckley)	DNR	Pine	2	2-Med.	Replace/remove	\$500	\$500		safety	Right abutment; dam removal; design phase
funded FY17	Nest Lake	County	Kandiyohi	4	3-Low	Repair	\$1,000	\$260		safety	Need additional funding of \$250,000
funded FY20	Lake Bronson	DNR	Kittson	1	1-High	Replace	\$20,000	\$20,000		safety/maintain lake levels	Rebuild dam
funded FY23	Lake Bronson	DNR	Kittson	1	1-High	Replace	\$3,600	\$3,600		safety/maintain lake levels	Rebuild dam
funded FY23	Emergencies	TBD	TBD	TBD	TBD	TBD	\$400	\$400		safety	To Be Determined should an emergency arise
1	Nest	County	Kandiyohi	4	3-Low	Repair	\$1,000	\$250	\$250	safety	Need additional funding of \$250,000
2	Schultz Lake	DNR	St. Louis	2	3-Low	Repair	\$200	\$200	\$450	maintain lake levels	Not at authorized level, design is complete.
3	JD20SN/Sibley 34	County	Sibley	4	3-Low	Repair	\$120	\$60	\$510	maintain lake levels	Breached, not at authorized level. Design complete.
4	Clearwater	DNR	Clearwater	1	3-Low	Modify	\$500	\$500	\$1,010	safety	Safety. Recent drowning.
5	Bucks Mill	DNR	Becker	1	3-Low	Modify	\$1,000	\$1,000	\$2,010	safety/maintain lake levels	Safety-hydraulic roller. Tampering.
6	Lower Sakatah	DNR	Rice	4	3-Low	Repair	\$100	\$100	\$2,110	safety	Remove catwalk and piers for safety and bogs
7	Calhoun	DNR	Kandiyohi	4	3-Low	Repair	\$1,000	\$1,000	\$3,110	safety/maintain lake levels	Controls Green Lake, spalling, tampering, operations
8	Little Stone Lake	County	St. Louis	2	2-Med.	Repair	\$1,000	\$500	\$3,610	safety	Embankment stability.
9	Coon Rapids	County	Hennepin	3	2-Med.	Repair/modify	\$2,000	\$1,000	\$4,610	safety	High priority items from Ayers inspection
10	Eden Lake	DNR	Stearns	3	3-Low	Repair	\$500	\$500	\$5,110	maintain lake levels	Operation; Lake Assn. letter of support
11	South Connection	DNR	Polk	1	3-Low	Repair	\$100	\$100	\$5,210	maintain lake levels	Abutment washout temporarily repaired.
12	Cross	DNR	Polk	1	3-Low	Repair	\$100	\$100	\$5,310	maintain lake levels	Abutment washout forthcoming
13	Gorman	DNR	Le Sueur	4	3-Low	Repair	\$500	\$500	\$5,810	maintain lake levels	Runout issues with weir, concrete deterioration
14	Eagle Lake	DNR	Kandiyohi	4	3-Low	Repair	\$500	\$500	\$6,310	maintain lake levels	Runout issues with weir, concrete deterioration
15	Perkins Lake	DNR	Stevens	1	3-Low	Repair	\$500	\$500	\$6,810	safety/maintain lake levels	Runout issues. Public meeting.
16	Moose Lake State Park	DNR	Carlton	2	3-Low	Repair	\$500	\$500	\$7,310	recreation	Conduit and riser rusted. Second dam close by.
17	Rum River (Anoka)	City	Anoka	3	3-Low	Modify	\$500	\$250	\$7,560	safety	Concrete repair. Flashboard safety.
18	Splitrock Creek	DNR	Pipestone	4	2-Med.	Repair	\$1,000	\$1,000	\$8,560	safety/maintain lake levels	Potential structural issues
19	Pike River	DNR	St. Louis	2	2-Med.	Repair	\$4,000	\$4,000	\$12,560	safety/maintain lake levels	Poor condition, expensive repairs
20	Horseshoe Lake WMA	WD/DNR	Kittson	1	3-Low	Repair	\$100	\$100	\$12,660	safety	WD request. FEMA funding sought. Replace outlet.
21	Warren Lake	DNR	Cottonwood	4	3-Low	Repair/remove	\$500	\$500	\$13,160	safety/maintain lake levels	Overtopping protection or dam raise or removal
22	Lake Linka	Pope SWCD	Pope	1	3-Low	Repair	\$50	\$25	\$13,185	safety	Replace cradle and stabilize embankment
23	Roseau River Pool 1 and 2	DNR	Roseau	1	3-Low	Repair	\$250	\$250	\$13,435	safety	Crack and displacement in dam/road. Pool 2 outlet.
24	Diamond	County	Kandiyohi	4	3-Low	Repair	\$300	\$150	\$13,585	maintain lake levels	Poor condition. County request.
25	Mud Lake downstream of Emily	DNR	Le Sueur	4	3-Low	Replace	\$100	\$100	\$13,685	maintain lake levels	Sheet pile heave, deterioration
26	Hewitt/Wing River Dam	DNR/City	Todd	3	3-Low	Repair/modify	\$250	\$125	\$13,810	safety	Removal/modification; ownership is unclear
27	Silver Lake	City	Olmsted	3	2-Med.	Modify	\$4,000	\$2,000	\$15,810	safety/restore fish passage	Part of trail connection project
28	Crooked Lake	WD	Anoka	3	3-Low	Repair	\$50	\$25	\$15,835	maintain lake levels	Vinyl sheet pile for seepage
29	Halleque	DNR	Douglas	1	3-Low	Repair	\$200	\$200	\$16,035	safety/maintain lake levels	Scarps in embankment and bad concrete
30	Shields	DNR	Rice	4	3-Low	Repair	\$200	\$200	\$16,235	maintain lake levels	Right abutment has failed

31	Borden	DNR	Crow Wing	2	3-Low	Repair	\$250	\$250	\$16,485	maintain lake levels	Leaning left abutment; rock arch rapids option
32	Dam Lake	DNR	Aitkin	2	3-Low	Repair	\$250	\$250	\$16,735	maintain lake levels	Both abutments
33	Ten Mile	DNR	Otter Tail	1	3-Low	Repair	\$300	\$300	\$17,035	maintain lake levels	Redo dam and embankment, sill
34	Hanging Kettle Lake	DNR	Aitkin	2	3-Low	Repair	\$200	\$200	\$17,235	maintain lake levels	Both abutments failing
35	Ripple Lake	DNR	Aitkin	2	3-Low	Repair	\$200	\$200	\$17,435	maintain lake levels	Put in steel, left abutment failing
36	Long (Tamefish)	DNR	Aitkin	2	3-Low	Repair/Modify	\$200	\$200	\$17,635	maintain lake levels	Sheet pile heave, rocks and debris
37	Toad	DNR	Becker	1	3-Low	Repair/Modify	\$200	\$200	\$17,835	maintain lake levels	Concrete deterioration. Local interest.
38	McCraney	DNR	Mahnomen	1	3-Low	Repair/Modify	\$200	\$200	\$18,035	maintain lake levels	Tilting abutments. Concrete deterioration.
39	Little Toad	DNR	Becker	1	3-Low	Repair/Modify	\$200	\$200	\$18,235	maintain lake levels	Debris problem. Maintenance. Concrete deterioration.
40	Badger Lake	County	Polk	1	3-Low	Modify	\$400	\$200	\$18,435	safety/maintain lake levels	County request to replace with rock arch rapids.
41	Maple Lake	County	Polk	1	3-Low	Modify	\$700	\$350	\$18,785	safety/maintain lake levels	County request to replace with rock arch rapids.
42	Hill Annex No. 1	State	Itasca	2	3-Low	Modify	\$100	\$100	\$18,885	safety	High water levels
43	Donna Lake	not known	St. Louis	2	3-Low	Repair	\$100	\$50	\$18,935	safety	Drummond Grade. Ownership unclear. Fisheries.
44	Sandstone (Robinson Park)	not known	Pine	2	3-Low	Remove	\$100	\$100	\$19,035	safety	Potential hazard to river users
45	Platte River	DNR	Morrison	3	3-Low	Remove	\$500	\$500	\$19,535	safety/fish passage	American Rivers interest in removal
46	Prior Lake	not known	Scott	3	3-Low	Remove	\$150	\$150	\$19,685	safety	Abandoned structure. Ownership question.
47	Hanska	DNR	Brown	4	3-Low	Replace	\$300	\$300	\$19,985	safety	Structure bowing, abutments repaired twice.
48	Crissy Lake	DNR	Stevens	1	2-Med.	Modify	\$300	\$300	\$20,285	safety/restore fish passage	
49	Long	State	Hubbard	1	3-Low	Modify	\$250	\$250	\$20,535	maintain lake levels	DOT project in 2023
50	Lightning	DNR	Grant	1	3-Low	Repair	\$200	\$200	\$20,735	maintain lake levels	Fisheries 2015; failing slowly 2018
51	Elim	Carlton SWCD	Carlton	2	3-Low	Remove	\$1,000	\$500	\$21,235	safety	SWCD looking to remove the dams-private prop.
52	Hanson	Carlton SWCD	Carlton	2	3-Low	Remove	\$1,000	\$500	\$21,735	safety	SWCD looking to remove the dams-private prop.
53	Knife Lake	LID	Kanabec	3	2-Med.	Modify	\$500	\$250	\$21,985	safety	Possible drowning hazard
54	Sunrise River Pool #1	DNR	Chisago	3	3-Low	Modify	\$200	\$200	\$22,185	safety	Bog problems, possible drowning machine
55	Sunrise River Pool #3	DNR	Chisago	3	3-Low	Modify	\$200	\$200	\$22,385	safety	Bog problems, possible drowning machine
56	Eagle Lake	DNR	Crow Wing	2	3-Low	Repair	\$25	\$25	\$22,410	maintain lake levels	Put in steel, tampering
57	South Stanchfield	DNR	Isanti	3	3-Low	Replace	\$50	\$50	\$22,460	maintain lake levels	County bridge replacement not ready
58	Wynne	DNR	St. Louis	2	3-Low	Modify	\$300	\$300	\$22,760	safety	Log jam, right abutment fill, difficult access
59	Otter Tail River (Phelps Mill)	County	Otter Tail	1	3-Low	Repair	\$100	\$50	\$22,810	safety/fish passage	Historic structure, fish passage
60	Clearwater River	Counties	Stearns/Wright	3	3-Low	Repair	\$300	\$150	\$22,960	safety	Recent bike trail
61	Big Stone Lake	WD/DNR	Big Stone	4	2-Med.	Modify	\$50	\$50	\$23,010	safety	Corps acceptance needed
62	Woolen Mill (Faribault)	City	Rice	4	2-Med.	Remove/modify	\$400	\$200	\$23,210	safety	Need scope of project
63	Sunrise River (Kost)	County	Chisago	3	3-Low	Modify	\$100	\$50	\$23,260	safety	Fishing hole; need further discussions
64	Pine Lake	DNR	Aitkin	2	3-Low	Repair	\$150	\$150	\$23,410	maintain lake levels	Not high priority, but keep on list
65	Northern Light Lake	DNR/USFS	Cook	2	3-Low	Repair	\$50	\$50	\$23,460	maintain lake levels	Need internal discussions, consider dam removal
66	French Lake	County	Rice	4	3-Low	Replace	\$200	\$100	\$23,560	maintain lake levels	5 years
67	Crooked Creek R-3	SWCD	Houston	3	3-Low	Repair	\$100	\$50	\$23,610	safety	Sinkhole
68	Bear Creek Site No. 3	SWCD	Houston	3	3-Low	Repair	\$100	\$50	\$23,660	safety	Sinkhole
69	Pioneer Tailings	City	St. Louis	2	3-Low	Repair/remove	\$100	\$50	\$23,710	safety	May want to remove, near golf course
70	Pioneer Tailings Clarification	City	St. Louis	2	3-Low	Repair/remove	\$100	\$50	\$23,760	safety	May want to remove, near golf course
71	Douglas Tailings	State	St. Louis	2	3-Low	Remove	\$50	\$50	\$23,810	safety	Breach dam when done mining
72	Abandoned mining dams	State	Various	2		Repair/remove	\$500	\$500	\$24,310	safety	Research
73	Clayton Lake	DNR	Pine	2	3-Low	Repair	\$1,800	\$1,800	\$26,110	safety/historic preservation	Completely new spillway

**The remaining projects are grouped by DNR Region and are not prioritized.**

	Ice Cracking	DNR	Becker	1	3-Low	Repair	\$100	\$100	\$26,210	maintain lake levels	Some concrete deterioration.
	Little Floyd	DNR	Becker	1	3-Low	Repair	\$100	\$100	\$26,310	maintain lake levels	Minor concrete deterioration.
	Hattie Lake	DNR	Cass	1	3-Low	Repair	\$25	\$25	\$26,335	maintain lake levels	Put in steel stoplogs
	Milona Lake	DNR	Douglas	1	3-Low	Repair	\$150	\$150	\$26,485	maintain lake levels	Concrete deterioration, leaning left abutment
	Upper Hunt Lake	DNR	Douglas	1	3-Low	Repair	\$100	\$100	\$26,585	maintain lake levels	
	Portage Lake	DNR	Hubbard	1	3-Low	Repair	\$200	\$200	\$26,785	maintain lake levels	
	Stephen	City	Marshall	1	3-Low	Modify	\$200	\$100	\$26,885	safety/restore fish passage	
	Blanche	DNR	Otter Tail	1	3-Low	Repair	\$100	\$100	\$26,985	maintain lake levels	Put in steel stoplogs, concrete pier deterioration
	Fergus Falls	City	Otter Tail	1	N/A	Remove remnan	\$100	\$100	\$27,085	safety	
	Long (Dalton)	DNR	Otter Tail	1	3-Low	Repair	\$50	\$50	\$27,135	maintain lake levels	Put in steel stoplogs, concrete deterioration
	Long (Elizabeth)	DNR	Otter Tail	1	3-Low	Repair	\$50	\$50	\$27,185	maintain lake levels	Put in steel stoplogs, concrete deterioration
	Prairie Lake	DNR	Otter Tail	1	3-Low	Repair	\$100	\$100	\$27,285	maintain lake levels	Snowmobile trail over dam; letter of support
	Rose Lake	DNR	Otter Tail	1	3-Low	Repair	\$100	\$100	\$27,385	maintain lake levels	
	Turtle	DNR	Polk	1	N/A	Remove	\$50	\$50	\$27,435	safety	Non-functional, remove remnants
	Hill Lake	DNR	Aitkin	2	3-Low	Repair	\$50	\$50	\$27,485	maintain lake levels	Put in steel stoplogs
	Daggett Brook WMA	DNR	Cass	2	3-Low	Repair	\$75	\$75	\$27,560	safety	Embankment washouts and beaver runs
	Greer Lake	DNR	Crow Wing	2	3-Low	Repair	\$100	\$100	\$27,660	maintain lake levels	
	O'Brien Lake	DNR	Crow Wing	2	3-Low	Repair	\$100	\$100	\$27,760	maintain lake levels	Steel stoplogs recently installed
	Round Lake	DNR	Crow Wing	2	3-Low	Repair	\$25	\$25	\$27,785	maintain lake levels	Put in steel stoplogs, concrete deterioration
	Buck Lake	DNR	Itasca	2	3-Low	Modify	\$100	\$100	\$27,885	safety/aesthetics	

	Splithand Lake	DNR	Itasca	2	3-Low	Remove	\$100	\$100	\$27,985	safety/aesthetics	
	Floodwood	DNR	St. Louis	2	3-Low	Repair	\$100	\$100	\$28,085	safety/maintain lake levels	
	Pequaywan	DNR	St. Louis	2	3-Low	Repair	\$50	\$50	\$28,135	safety/maintain lake levels	Fix eroded hole on apron
	Sturgeon Lake	DNR	St. Louis	2	3-Low	Repair	\$100	\$100	\$28,235	maintain lake levels	Potential for additional steel stoplogs
	Onamia	DNR	Mille Lacs	3	3-Low	Modify	\$200	\$200	\$28,435	maintain lake levels	Wildlife concern with safe bog removal
	Sauk Centre	City	Stearns	3	2-Med.	Modify	\$500	\$250	\$28,685	safety	
	Fairhaven	County	Wright/Stearns	3	3-Low	Modify	\$600	\$300	\$28,985	safety	
	Springfield	not known	Brown	4	3-Low	Remove/modfy	\$300	\$150	\$29,135	safety/restore fish passage	
	Talcot Lake	DNR	Cottonwood	4	3-Low	Remove/modfy	\$1,500	\$1,500	\$30,635	safety/maintain lake levels	Replace with rock rapids. Abutments too low.
	Mantorville	City	Dodge	4	3-Low	Repair/Modify	\$300	\$150	\$30,785	safety/maintain lake levels	
	Calhoun Diversion	DNR	Kandiyohi	4	3-Low	Modify	\$100	\$100	\$30,885	maintain lake levels	Need fixed crest to address tampering
	Louise Lake	DNR	Mower	4	3-Low	Repair	\$300	\$300	\$31,185	safety/restore fish passage	
	Elysian Lake	DNR	Waseca	4	3-Low	Repair	\$150	\$150	\$31,335	maintain lake levels	
	Watowwan River Diversion	County	Watowwan	4	3-Low	Repair	\$100	\$100	\$31,435	maintain lake levels	Added in 2013
	Granite Falls	City	Yellow Medicine	4	1-High	Modify	\$600	\$300	\$31,735	safety	Mixed interest in whitewater park

**Notes:**

- 1) Priorities are subject to change based on results of dam safety inspections, readiness of local project sponsors, opportunities for piggybacking projects, etc.
- 2) All cost estimates are preliminary; actual costs will depend on final project design and construction bids received.
- 3) MS Section 103G.511 authorizes matching grants to local governments and requires legislative approval of projects or grants of \$250,000 or more.
- 4) MS Section 103G.515 authorizes the state to pay the full cost of dam removals under certain conditions.
- 5) "Remove/modify" means a final decision has not been made on whether the dam will be removed or modified.

\*The removal of private dams may be eligible for state assistance. Repairs and modifications of private dams are not eligible.

For more information contact: Randall Doneen at (651) 259-5156, or Jason Boyle at (651) 259-5715.

## **103G.511 PUBLICLY OWNED DAM REPAIR.**

Subd. 6. **Determination of grant.** The commissioner shall consider all relevant factors in determining whether to repair or reconstruct a state-owned dam or to make a grant to a political subdivision including:

- (1) the age and type of construction of the dam;
- (2) the use of the dam for water supply, flood control, navigation, hydroelectric power generation, recreation, wildlife management, scenic value, or other purposes related to public health, safety, and welfare;
- (3) the consequences of abandonment, removal, or alteration of the dam;
- (4) prospective future uses of the dam; and
- (5) the relative importance of the dam to the statewide water resource program.

Subd. 12. **Priority list of dams needing repair.** After reviewing examinations of dams owned by the state and political subdivisions, the commissioner shall prioritize the state and political subdivision dams in need of repair, reconstruction, or removal and report by June 1 of each odd-numbered year to the legislature. The commissioner must prioritize projects considering danger to life, damage to property, and the factors listed in subdivision 6.