

Minnesota Department of Natural Resources

500 Lafayette Road · Saint Paul, Minnesota · 55155-4037

Office of the Commissioner

651-259-5555



January 30, 2014

JoAnne M. Zoff
Secretary of the Senate
231 State Capitol
75 Rev. Dr. Martin Luther King Jr. Blvd.
St. Paul, MN 55155-1606

Albin A. Mathiowetz
Chief Clerk of the House of Representatives
211 State Capitol
75 Rev. Dr. Martin Luther King Jr. Blvd.
St. Paul, MN 55155-1606

Dear Secretary Zoff and Chief Clerk Mathiowetz:

Enclosed is the Department of Natural Resource's current dam safety program project priority needs list. A project priority list was submitted on May 30, 2013 in accordance with Minnesota Statutes, section 103G.511, subdivision 12, which requires the DNR to prioritize and report dam project needs to the legislature by June 1 of each odd-numbered year. The enclosed submittal is an updated dam safety program project priority list that adds high priority projects we became aware of after May 30, 2013.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Landwehr".

Tom Landwehr
Commissioner

cc: Legislative Reference Library (2 copies)
645 State Office Building, 100 Rev. Martin Luther King Jr. Blvd., St. Paul, MN 55155-1050

Steve Hirsch, DNR Ecological and Water Resources Division Director
Kent Lokkesmoe, DNR Senior Administrative Officer
Jason Boyle, DNR Dam Safety Engineer



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 January 30, 2014

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	Rush Creek	DNR	Chisago	3	N/A	Remove/restore	\$200	\$200		restore fish passage	Completed in 2011 removal
Complete	New London	DNR	Kandiyohi	4	1-High	Rehabilitate	\$2,950	\$2,950		safety/maintain lake levels	Completed in 2011 reconstruction
Complete	Jackson	City	Jackson	4	2-Med.	Remove/modify	\$1,000	\$150		safety/restore fish passage	Completed in 2011 remove/modify
Complete	Luverne	City	Rock	4	3-Low	Remove/modify	\$150	\$75		safety/restore fish passage	Completed in 2011 removal
Complete	Madison Lake	?	Blue Earth	4	3-Low	Replace	\$100	\$50		maintain lake levels	Completed in 2011 modify
Complete	Coon Lake	DNR	Anoka	3	3-Low	Repair	\$25	\$25		maintain lake levels	Completed in 2012 repair
Complete	Windom	City	Cottonwood	4	N/A	Remove/restore	\$300	\$150		safety/restore fish passage	Completed in 2012 remove
Complete	Christine	City	Wilkin	1	3-Low	Modify	\$400	\$25		safety/restore fish passage	Completed in 2012 modify
Complete	Hickson	City	Clay	1	3-Low	Modify	\$400	\$25		safety/restore fish passage	Completed in 2012 modify
Complete	Montevideo	City	Chippewa	4	2-Med.	Remove	\$300	\$150		safety/restore fish passage	Completed in 2012 remove
Complete	Cross Lake	DNR	Pine	2	3-Low	Modify	\$225	\$225		safety/restore fish passage	Completed in 2013 modify
Complete	Milaca	City	Mille Lacs	3	3-Low	Remove	\$300	\$150		safety/restore fish passage	Completed in 2013 remove
Complete	Pelican Lake	DNR	Otter Tail	1	3-Low	Repair	\$50	\$50		maintain lake levels	Completed in 2013 repair
funded	Shell Rock (Albert Lea Lake)	County	Freeborn	4	2-Med.	Replace	\$500	\$250		maintain lake levels	Additional funds requested
funded	Lanesboro	City	Fillmore	3	1-High	Repair/rehab	\$900	\$450		safety/historical preservation	Issue - City funding
funded	Champlin Mill Pond	City	Hennepin	3	2-Med.	Repair/modify	\$3,800	\$250		safety	Additional funds requested
funded	Shady Lake	County	Olmsted	3	2-Med.	Remove	\$1,000	\$1,000		safety	2010 special session bonding, design phase
funded	Coon Rapids	County	Hennepin	3	2-Med.	Repair/modify	\$16,000	\$16,000		safety	Scheduled completion in 2014
funded	Byllesby	County	Dakota/Goodhue	3	1-High	Repair	\$6,700	\$3,350		safety	PMF increase in capacity via FERC
budgeted	Hartley (Duluth)	City	St. Louis	2	1-High	Modify	\$500	\$250		safety/maintain lake levels	Scope of project being defined; dam break
budgeted	Hallock	City	Kittson	1	3-Low	Remove/modify	\$300	\$150		safety/restore fish passage	Water supply for golf course, safety
budgeted	Lake Bronson	DNR	Kittson	1	1-High	Rehab. eng.	\$800	\$800		safety/maintain lake levels	Final design work; \$9M reconstruction est.
budgeted	Pike River	DNR	St. Louis	2	2-Med.	Modify eng.	\$225	\$225		safety/maintain lake levels	Poor condition
budgeted	Clayton Lake	DNR	Pine	2	3-Low	Repair	\$1,800	\$325		safety/historic preservation	Historic, inadequate funding, partial failure
budgeted	Drayton	Drayton, ND	Kittson	1	2-Med.	Remove/modify	\$7,500	\$250		safety/restore fish passage	Many drownings, issues; \$ for MN side only
budgeted	Lanesboro	City	Fillmore	3	1-High	Repair/rehab	\$1,900	\$500		safety/historical preservation	Additional funds requested
budgeted	Shady Lake	County	Olmsted	3	2-Med.	Remove	\$2,000	\$150		safety	Additional funds requested
budgeted	Champlin Mill Pond	City	Hennepin	3	2-Med.	Repair/modify	\$3,800	\$350		safety	Additional funds requested
1	Lake Bronson	DNR	Kittson	1	1-High	Rehab. eng.	\$9,000	tbd	\$0	safety/maintain lake levels	Need to complete design first
2	Drayton	Drayton, ND	Kittson	1	2-Med.	Remove/modify	\$7,500	tbd	\$0	safety/restore fish passage	Possible mitigation for F-M diversion
3	Byllesby	County	Dakota/Goodhue	3	1-High	Repair	\$2,700	\$1,350	\$1,350	safety	Capital improvement plan
4	Rapidan	County	Blue Earth	4	2-Med.	Repair	\$2,400	\$1,200	\$2,550	safety	Gate replacement, retaining wall, windows
5	Champlin Mill Pond	City	Hennepin	3	2-Med.	Repair/modify	\$3,800	\$1,100	\$3,650	safety	Additional funds requested
6	Shell Rock (Albert Lea Lake)	County	Freeborn	4	2-Med.	Replace	\$2,000	\$250	\$3,900	maintain lake levels	Additional funds requested
7	Bald Eagle Lake	?	Washington	2	3-Low	Replace	\$600	\$250	\$4,150	safety/maintain lake levels	Ownership unclear, road/dam
8	Balsam Lake	DNR	Itasca	2	3-Low	Repair	\$250	\$250	\$4,400	safety/maintain lake levels	Local support; concrete deterioration
9	Deer Creek at Effie	DNR	Itasca	2	3-Low	Replace	\$100	\$100	\$4,500	safety/fish passage	Left abutment; some LSOHC fish passage funds
10	Lizzie	DNR	Otter Tail	1	3-Low	Modify	\$25	\$25	\$4,525	maintain lake levels	Don-Bog - cut low/all piers and add fill
11	Height of Land Lake	DNR	Becker	1	3-Low	Modify	\$25	\$25	\$4,550	maintain lake levels	Don-Bog - cut low piers and repairs
12	Sand Hill Lake	DNR	Polk	1	3-Low	Repair	\$25	\$25	\$4,575	fish passage/maintain lake	Bezek-fish passage, frost heave, unlevel
13	Perkins Lake	DNR	Stevens	1	3-Low	Repair	\$200	\$200	\$4,775	safety/maintain lake levels	Don-put in steel and redo; remove crossing
14	Brawner	DNR	Lyon	4	3-Low	Repair/remove	\$400	\$400	\$5,175	safety	Dan-misc in bad shape, Parks and trail
15	Stalker	DNR	Otter Tail	1	3-Low	Repair	\$25	\$25	\$5,200	maintain lake levels	Don-put in steel, add fill to abutment
16	Sullivan Lake	DNR	Morrison	3	3-Low	Replace	\$100	\$100	\$5,300	maintain lake levels	Abutment- Local support, earth work
17	Platte River	DNR	Morrison	3	3-Low	Remove	\$200	\$200	\$5,500	safety/fish passage	American Rivers interest in removal
18	Norway Lake	City	Cass	1	1-High	Replace	\$1,000	\$500	\$6,000	safety	New DOT bridge being designed for 2014/15
19	Little Stone Lake	County	St. Louis	2	2-Med.	Repair	\$300	\$150	\$6,150	safety	Was on 2005 list, ownership now clear
20	Clayton Lake	DNR	Pine	2	3-Low	Repair	\$1,800	\$1,475	\$7,625	safety/historic preservation	Additional funds needed
21	Sauk River	City	Stearns	3	3-Low	Remove	\$150	\$75	\$7,700	safety	Dan Lais request, St Cloud owns
22	Sunrise River Pool #1	DNR	Chisago	3	3-Low	Modify	\$50	\$50	\$7,750	safety	Might act as a drowning machine
23	Sunrise River Pool #2	DNR	Chisago	3	3-Low	Modify	\$50	\$50	\$7,800	safety	Might act as a drowning machine
24	Blue Mounds (Lower)	DNR	Rock	4	3-Low	Repair	\$300	\$300	\$8,100	maintain lake levels/historic	Repair or it deteriorates to the point of failure
25	Titlow Lake	City	Sibley	4	3-Low	Replace	\$300	\$150	\$8,250	maintain lake levels	Rock dam falling apart
26	Lime Lake	County	Murray	4	N/A	Repair	\$350	\$175	\$8,425	maintain lake levels	Exposed rebar, undermined concrete
27	Martin Lake	DNR	Anoka	3	3-Low	Repair	\$50	\$50	\$8,475	safety	Fisheries support; fish barrier; TMDL
28	George Lake	DNR	Anoka	3	3-Low	Repair	\$50	\$50	\$8,525	maintain lake levels	Don-should install heavy sheetpile
29	Shields	DNR	Rice	4	3-Low	Repair	\$100	\$100	\$8,625	maintain lake levels	Don-right abutment has failed

30	State Hospital Pond	State	Nicollet	4	2-Med.	Remove/modify	\$500	\$500	\$9,125	safety	Buildings may get wet, prefer removal
31	Thief Lake	DNR	Marshall	1	3-Low	Repair	\$500	\$500	\$9,625	maintain lake levels	Concrete testing completed
32	Eden Lake	DNR	Stearns	3	3-Low	Repair	\$150	\$150	\$9,775	maintain lake levels	Don-put in stoplogs, Lake Assn. interest
33	Dam Lake	DNR	Aitkin	2	3-Low	Repair	\$100	\$100	\$9,875	maintain lake levels	Lonnie-both abutments
34	Ten Mile	DNR	Otter Tail	1	3-Low	Repair	\$100	\$100	\$9,975	maintain lake levels	Don-redo dam and embankment, sill
35	Eagle Lake	DNR	Crow Wing	2	3-Low	Repair	\$25	\$25	\$10,000	maintain lake levels	Don-put in steel, tampering
36	Hanging Kettle Lake	DNR	Aitkin	2	3-Low	Repair	\$100	\$100	\$10,100	maintain lake levels	Don/Lonnie- both abutments failing
37	Long (Tamefish)	DNR	Crow Wing	2	3-Low	Repair/Modify	\$50	\$50	\$10,150	maintain lake levels	Sheet pile heave, rocks and debris
38	Ripple Lake	DNR	Aitkin	2	3-Low	Repair	\$100	\$100	\$10,250	maintain lake levels	Don-put in steel, left abutment failing
39	Wynne	DNR	St. Louis	2	3-Low	Modify	\$100	\$100	\$10,350	safety	Don-6 bays open, log jam, difficult access
40	Pelican Rapids	City	Otter Tail	1	1-High	Repair	\$400	\$200	\$10,550	safety	Rock masonry wall leaning, not urgent
41	Mayowood (Rochester)	City	Olmsted	3	3-Low	Modify	\$500	\$250	\$10,800	safety	
42	Rum River (Anoka)	City	Anoka	3	3-Low	Modify	\$600	\$300	\$11,100	safety	Ekman-inquiry; flashboard, big gate
43	Phelps Mill	County	Otter Tail	1	3-Low	Repair	\$100	\$50	\$11,150	safety/fish passage	
44	Homer township/Pickwick	Township	Winona	3	2-Med.	Repair/modify	\$300	\$150	\$11,300	safety/maintain lake levels	Order to repair, verify hazard
45	Clearwater River	Counties	Stearns/Wright	3	3-Low	Repair	\$300	\$150	\$11,450	safety	Recent bike trail
46	Big Stone Lake	WD/DNR	Big Stone	4	2-Med.	Modify	\$50	\$50	\$11,500	safety	Corps acceptance needed
47	Woolen Mill (Faribault)	City	Rice	4	2-Med.	Remove/modify	\$400	\$200	\$11,700	safety	Need scope of project
48	Knife Lake	LID	Kanabec	3	2-Med.	Modify	\$500	\$250	\$11,950	safety	Drowning machine?, Joe Raiolo, \$ seems high
49	Sunrise River (Kost)	County	Chisago	3	3-Low	Modify	\$100	\$50	\$12,000	safety	Fishing hole; need further discussions
50	Pine Lake	DNR	Aitkin	2	3-Low	Repair	\$150	\$150	\$12,150	maintain lake levels	Lonnie-not high priority, but keep on list
51	Northern Light Lake	DNR/USFS	Cook	2	3-Low	Repair	\$50	\$50	\$12,200	maintain lake levels	Need internal discussions
52	Melrose	City	Stearns	3	2-Med.	Repair	\$400	\$200	\$12,400	safety	Likely wall repair once 2014 inspection complete
53	French Lake	County	Rice	4	3-Low	Replace	\$200	\$100	\$12,500	maintain lake levels	Joe McGough-5 years
54	Fountain Lake (Albert Lea)	City	Freeborn	4	3-Low	Modify	\$300	\$150	\$12,650	safety	Fish barrier?
55	Pioneer Tailings	City	St. Louis	2	3-Low	Repair/remove	\$100	\$50	\$12,700	safety	May want to remove, near golf course
56	Pioneer Tailings Clarification	City	St. Louis	2	3-Low	Repair/remove	\$100	\$50	\$12,750	safety	May want to remove, near golf course
57	Douglas Tailings	State	St. Louis	2	3-Low	Remove	\$50	\$50	\$12,800	safety	Breach dam when done mining
58	Abandoned mining dams	State	Various	2		Repair/remove	\$500	\$500	\$13,300	safety	Contact Jim Sellner, research
59	Fish Lake	DNR	Kanabec	3	3-Low	Modify	\$250	\$250	\$13,550	safety/restore fish passage	Fisheries support; funded with LSOHC
60	Sylvia	DNR	Stearns	3	3-Low	Repair	\$50	\$50	\$13,600	fish passage/maintain lake	Removal/riffle abutment repair; LSOHC

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

	Shell Lake	DNR	Becker	1	3-Low	Repair	\$75	\$75	\$13,675	maintain lake levels	Don-put in steel, concrete deterioration
	Hattie Lake	DNR	Cass	1	3-Low	Repair	\$25	\$25	\$13,700	maintain lake levels	Don-put in steel, dam ok
	Miltona Lake	DNR	Douglas	1	3-Low	Repair	\$150	\$150	\$13,850	maintain lake levels	Concrete deterioration, leaning left abutment
	Upper Hunt Lake	DNR	Douglas	1	3-Low	Repair	\$100	\$100	\$13,950	maintain lake levels	
	Park Rapids (Fish Hook)	City	Hubbard	1	2-Med.	Repair	\$300	\$150	\$14,100	safety	
	Portage Lake	DNR	Hubbard	1	3-Low	Repair	\$200	\$200	\$14,300	maintain lake levels	
	Stephen	City	Marshall	1	3-Low	Modify	\$200	\$100	\$14,400	safety/restore fish passage	
	Blanche	DNR	Otter Tail	1	3-Low	Repair	\$100	\$100	\$14,500	maintain lake levels	Don-put in steel, concrete pier deterioration
	Fergus Falls	City	Otter Tail	1	N/A	Remove remnant	\$100	\$100	\$14,600	safety	
	Little Pine Lake	DNR	Otter Tail	1	3-Low	Repair	\$100	\$100	\$14,700	maintain lake levels	Don-put top row in steel
	Long (Dalton)	DNR	Otter Tail	1	3-Low	Repair	\$50	\$50	\$14,750	maintain lake levels	Don-put in steel, concrete deterioration
	Long (Elizabeth)	DNR	Otter Tail	1	3-Low	Repair	\$50	\$50	\$14,800	maintain lake levels	Don-put in steel, concrete deterioration
	Prairie Lake	DNR	Otter Tail	1	3-Low	Repair	\$100	\$100	\$14,900	maintain lake levels	Don-repair right abutment, snowmobile trail
	Rose Lake	DNR	Otter Tail	1	3-Low	Repair	\$100	\$100	\$15,000	maintain lake levels	
	West Leaf Lake	DNR	Otter Tail	1	3-Low	Repair	\$50	\$50	\$15,050		
	Crissy Lake	DNR	Stevens	1	2-Med.	Modify	\$300	\$300	\$15,350	safety/restore fish passage	
	Hill Lake	DNR	Aitkin	2	3-Low	Repair	\$50	\$50	\$15,400	maintain lake levels	Don-put in steel
	Greer Lake	DNR	Crow Wing	2	3-Low	Repair	\$100	\$100	\$15,500	maintain lake levels	
	O'Brien Lake	DNR	Crow Wing	2	3-Low	Repair	\$100	\$100	\$15,600	maintain lake levels	Steel recently installed
	Round Lake	DNR	Crow Wing	2	3-Low	Repair	\$25	\$25	\$15,625	maintain lake levels	Don-put in steel, concrete deterioration
	Upper South Long Lake	DNR	Crow Wing	2	3-Low	Repair	\$25	\$25	\$15,650	maintain lake levels	Don-put in steel, dam ok
	Buck Lake	DNR	Itasca	2	3-Low	Modify	\$100	\$100	\$15,750	safety/aesthetics	
	Splithand Lake	DNR	Itasca	2	3-Low	Remove	\$100	\$100	\$15,850	safety/aesthetics	
	Grindstone River (Hinckley)	DNR	Pine	2	2-Med.	Replace/modify	\$500	\$500	\$16,350	safety	
	Willow River	DNR	Pine	2	2-Med.	Modify	\$300	\$300	\$16,650	safety	
	Bear Lake	DNR	St. Louis	2	3-Low	Replace	\$100	\$100	\$16,750	maintain lake levels	
	Esquagama Lake	DNR	St. Louis	2	3-Low	Repair/modify	\$500	\$500	\$17,250	maintain lake levels	Don-?
	Floodwood	DNR	St. Louis	2	3-Low	Repair	\$100	\$100	\$17,350	safety/maintain lake levels	Don-dam ok?
	Pequaywan	DNR	St. Louis	2	3-Low	Repair	\$50	\$50	\$17,400	safety/maintain lake levels	Don-fix eroded hole on apron
	Sturgeon Lake	DNR	St. Louis	2	3-Low	Repair	\$100	\$100	\$17,500	maintain lake levels	Don-?
	Silver Lake (Rochester)	City	Olmsted	3	2-Med.	Modify	\$600	\$300	\$17,800	safety	

Cold Spring	DNR	Stearns	3	3-Low	Modify	\$500	\$500	\$18,300	safety	
Sauk Centre	City	Stearns	3	2-Med.	Modify	\$500	\$250	\$18,550	safety	
Fairhaven	County	Wright/Stearns	3	3-Low	Modify	\$600	\$300	\$18,850	safety	
Springfield	not known	Brown	4	3-Low	Remove/modify	\$300	\$150	\$19,000	safety/restore fish passage	
Talcot Lake	DNR	Cottonwood	4	3-Low	Repair	\$150	\$150	\$19,150	safety/maintain lake levels	
Warren Lake	DNR	Cottonwood	4	3-Low	Repair	\$250	\$250	\$19,400	safety/maintain lake levels	
Mantorville	City	Dodge	4	3-Low	Repair/Modify	\$300	\$150	\$19,550	safety/maintain lake levels	
Freeborn Lake	DNR	Freeborn	4	3-Low	Repair	\$100	\$100	\$19,650	maintain lake levels	
Washington Lake	not known	LeSueur	4	3-Low	Repair	\$100	\$100	\$19,750	maintain lake levels	
4th Street (Austin)	private	Mower	4	3-Low	Remove	\$250	\$250	\$20,000	safety	
Louise Lake	DNR	Mower	4	3-Low	Repair	\$300	\$300	\$20,300	safety/restore fish passage	
Ramsey (Austin)	private	Mower	4	3-Low	Remove/modify	\$250	\$250	\$20,550	safety	
Ocheda	DNR	Nobles	4	3-Low	Repair	\$25	\$25	\$20,575	maintain lake levels	Don-put in steel, tampering
Lamberton	County	Redwood	4	3-Low	Remove/modify	\$300	\$150	\$20,725	safety/restore fish passage	
Sanborn	not known	Redwood	4	3-Low	Remove/modify	\$300	\$150	\$20,875	safety/restore fish passage	
Clear Lake	County	Sibley	4	3-Low	Replace	\$100	\$50	\$20,925	maintain lake levels	Leaning sheet pile, drawdown capability
Curran Lake	County	Sibley	4	3-Low	Repair	\$100	\$50	\$20,975	maintain lake levels	
High Island	DNR	Sibley	4	3-Low	Remove	\$200	\$200	\$21,175	safety/restore fish passage	
Elysian Lake	DNR	Waseca	4	3-Low	Repair	\$150	\$150	\$21,325	maintain lake levels	
Watonwan River Diversion	County	Watonwan	4	3-Low	Repair	\$100	\$100	\$21,425	maintain lake levels	Added in 2013
Granite Falls	City	Yellow Medicine	4	1-High	Modify	\$600	\$300	\$21,725	safety	

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.

For more information contact: Steve Hirsch at (651) 259-5106, Kent Lokkesmoe at (651) 259-5701, Julie Ekman at (651) 259-5674, or Jason Boyle at (651) 259-5715.