

Dam Failures, Dam Incidents (Near Failures)
 Association of State Dam Safety Officials www.damsafety.org

Date	Dam	Location	Fatalities	Estimated Damages	Cause	Other
Jan. 31, 1869	Upper & lower Kohanza dams, Flint's dam	Danbury, CT	11	Houses, businesses, 3 bridges		<i>Disastrous Dam Failure in CT, Eleven People Killed</i> , by Julia Adamson, Suite101.com. Includes references.
May 16, 1874	Mill River, on the Connecticut River	Williamsburg, MA	139 (incl. 43 children under age of 10)	Destroyed factories, 740 homes in Williamsburg, Leeds, Skinnerville, and Haydenville.	Faulty construction	See <i>In the Shadow of the Dam: The Aftermath of the Mill River Flood of 1874</i> , by Elizabeth Sharpe (Free Press, 2004)
April 20, 1886	Mud Pond	East Lee (near Great Barrington), MA	7	Heavily damaged or destroyed a dozen shops and industries along Greenwater Brook.		Rebuilt; new dam (Lee Lake) failed in 1968.
May 31, 1889	South Fork	Johnstown, PA	2209 (more than 1 in every 5 residents of Johnstown) Victims: 99 entire families, 396 children under the age of 10, and 755 unidentified victims. 45% of the victims whose ages were known were under 20.	\$17 million; , almost the entire city was destroyed (1600 homes, 280 businesses demolished).	overtopping	37' high wall of water hit Johnstown, 9 miles downstream. The dam had a deficient outlet and spillway, had been improperly maintained, and was overtopped and washed out during heavy rains. It took 57 minutes for the 30-40 ft-high floodwave (which had reached a peak height of 89'), traveling at speeds between 20-40 mph, to hit Johnstown; within another 10 minutes, almost the entire city was destroyed (1600 homes, 280 businesses demolished). Dam type: 37-year-old earthen embankment, built as part of the Pennsylvania Canal System, later bought by the exclusive South Fork Fishing & Hunting Club as a recreational lake Dam size: 72' high, 930' long, 20' wide at crest Impoundment size: 450 acres, 70' deep (about 5 billion gallons at time of failure)
Feb 22, 1890	Walnut Grove Dam	Near Prescott, Arizona	Unknown; most likely +/- 70, although published estimates range from 10-150	Destroyed town of Seymour (pop: <10); huge economic losses in Wickenburg; washed out new 25'-high diversion dam 12 miles downstream	inadequate spillway that was able to pass only about 4% of the flood flow at the time of failure; spillway terminated at the toe of dam and probably led to	The dam was 110 feet high, 400 feet long at the top, 140 feet base width (note height-to-width ratio), top width of 10 feet. It was rockfill and poorly sealed so that it leaked badly. The total operable outlets consisted of two 20-inch pipes. A 5 ft by 5 ft (or 3 ft by 5 ft depending on which engineering article you believe) flume in the bottom of the dam was inoperable, but would have not saved the dam if it had been opened. (Source: Jim Liggett, Cornell University)

					undermining. Poor design & construction	
1897	2 earth dams, Melzingah	New York	7 or more	Unknown		
April 6, 1900	Austin Dam	Austin, Texas	7-10	Powerhouse destroyed	Sliding	In 1900, a dam at the site of what is now Tom Miller Dam, which forms Lake Austin, gave way. Seven to 10 people -- accounts vary -- were killed while watching the flood from a hydroelectric powerhouse atop the dam.
3/11/1901	Randall's Pond	Rhode Island			Inflow Flood - Hydrologic Event	
3/28/1902	Unnamed dam	Near McMinnville, Tennessee			Inflow Flood - Hydrologic Event	
9/13/1902	Utica Reservoir	Utica, New York			Landslide	
7/5/1903	Fort Pitt	Jeannette, Pennsylvania			Overtopping	
7/5/1903	Oakford Park	Pennsylvania			Overtopping	
11/3/1904	Unnamed dam	Winston, North Carolina			Failed a year after storage increase	
4/14/1908	Hauser	Near Craig, Montana		Owner's power company eventually folded; sold out to MT Power	Dam not anchored to bedrock	70-foot-high steel dam collapsed ~ 2:45 p.m. Had been in operation for only 1 yr. New concrete dam was built at the site in 1911
1/7/1909	Ashley Dam	Massachusetts			Piping during first filling	
1909	Humphreys Lake dam	Salisbury, Maryland				Dam built in 1743 – powered saw & grist mills.
9/24/1909	Fergus Falls hydro dam (now known as "Broken Down Dam")	Minnesota	0	Washed out 4 downstream dams; losses to 2 mills over \$15,000	Sudden failure	Failure of 1-year-old dam washed out Red River Mill Dam (\$10,000 loss) & destroyed Woolen Mill Dam (\$5,000 loss). Advanced warning saved Dayton Hollow Dam, 5 miles south, as owner & president of Otter Tail Power Company had time to open the flood gates. Of the demolished dams, only Central Dam near South Cascade was rebuilt.
Sept. 30, 1911	Bayless Pulp & Paper Mill	Austin, Pennsylvania	88	Unknown		The Washington Post (1877-1954). Washington, D.C.: Oct 1, 1911. "The breaking of a dam above the little town of Austin, Pa., yesterday resulted in a frightful loss of life, the calamity approximating in its horror the Johnstown flood. Practically without warning the people of Austin were caught in the tolls of the flood, and swept to death, fire

						adding to the destruction wrought by the waters."
5/28/1912	Ansonia Brass & Copper Co. Dam	Connecticut			Undermining	
7/23/1912	Brokaw	Wausau, Wisconsin			Inflow flood	
11/4/1912	City Reservoir	Nashville, Tennessee		25M gallons of water released	Seepage	
April 14, 1915	Lyman, Little Colorado .R.	St. Johns, Arizona	8	\$500,000	thought to be due to sliding of the puddled core which had not dried out, but it appears the dam failed by piping. Poor construction may have played a role	
1/21/1916	Lower Otay	Near San Diego, CA	30	Unknown	Overtopping, Failed on first filling. Inadequate spillway capacity	
1/27/1916	Sweetwater	California				The dam at Sweetwater Reservoir fails releasing 13 billion gallons of water.. Dam constructed in 1888
5/15/1916	West Brook Reservoir #3	Plattsburg, New York			Seepage – shallow cutoffs	
7/1916	Unnamed	North Carolina			Inflow flood	
8/2/1916	Unnamed (maybe John Thompson's Mill Dam)	on Barren Creek in Claiborne County, Tennessee	24-28 lives lost in flood, # related to failure unknown	Many houses, mills, other buildings, crops, and livestock destroyed, railroad damaged. > \$30,000 in property damage (possibly \$50,000 to \$100,000).	Inflow flood	The dam broke following nine inches of rainfall in five hours, sending a wall of water 25 feet high crashing down the river.
8/9/1916	Unnamed	Betw. Acme & Kayford, West Virginia	60-75 from flood (unknown if related to failure)		Inflow flood	
8/9/1916	Unnamed	Jarrolds valley, Boone Co, West	60-75 from flood (unknown if related to failure)		Inflow flood	

		Virginia				
8/9/1916	Unnamed	Cabin Creek Valley, West Virginia	44-60 from flood (unknown if related to failure)	Extensive damage; esp. to rail, telephone, and coal company. > \$600,000 in damages	Inflow flood	
8/13/1916	Lake Toxaway	North Carolina			pipng	
6/24/1917	Mammoth Dam	Utah		extensive downstream damage to the tracks of the Rio Grande railroad, several coal mines and settlements.	shoddy initial construction, makeshift repairs and additions, and careless operation.	Only 3 years earlier, the State engineer had praised the Dam as the best of its kind in Utah. ENR concluded that the failure "rests in the final analysis upon the State of Utah." ...the State legislature and the State engineer's office... "for either the law was faulty in its provisions for enforcement of the rules it laid down or else the administrative arm of the state has woefully failed to see that the law was lived up to." Salt Lake City engineer H.S. Kleinschmidt noted that, "Utah is by no means the only state where such accidents have happened or are likely to happen at any moment."
Dec 1918	Masonry Dam (Boxley Burst)	Near North, WA		Excessive seepage through glacial moraine abutment caused mud flow about 1 mi. from reservoir. Destroyed RR line & village of Eastwick.		
Dec. 24, 1924	Saltville Muck (Mathieson Alkali Works Plant Waste) Dam	Saltville, VA	19		Unknown – man held for dynamiting dam, but Grand Jury dismissed for lack of evidence	"Palmertown Tragedy" - 100' high dam "...tons of waste raced through the tiny community of Palmertown. Pieces of the dam and boulders of muck blocked the North Fork of the Holston River, sending the flood upstream into the even smaller community of Chinch Row."
June 1925	Sheffield Dam	Near Santa Barbara, CA			Earthquake	25'-high hydraulic fill dam, 7 miles from the epicenter of a 6.3 Richter magnitude quake. The embankment & foundation were comprised primarily of loose silty sand, & seepage had saturated the foundation & lower part of the fill, resulting in liquefaction of the foundation. (USBR: <i>History of Large Federal Dams</i>)
Mar 12-13, 1928	St. Francis	California	>600	> \$5.5 million: 1,240 homes & other buildings destroyed; 23,500 acres of farmland flooded; 4 railroad bridges, 8 miles of railroad track, unknown miles of roads; 10 bridges	Most likely cause: instability of underlying soil	
Feb 7,	Eastwick RR	Near North	7	Destroyed RR line and		Blockage of culvert by slide caused RR Fill to back up water and fail.

1932	Fill	Bend, WA		village of Eastwick.		
April 1938	Loup Loup Dam	Near Malott, WA	0	Destroyed 25 homes and left 75 people homeless. Destroyed 1/2 mile of state highway.		50 foot high hydraulic fill dam failed when emergency spillway was undercut during a flood.
Apr. 13, 1945	Wewoka Dam	Wewoka, OK	8?			April 13-14: 14.6 inches of rain at Seminole. 80 people forced from homes, town under 4' of water *
1948	Columbia River dike	Vanport, OR		Destroyed city (never rebuilt; ~20,000 displaced); damage estimated at \$100 M		LEVEE FAILURE
Feb. 1950	Lake Dawn Dam	Port Angeles, WA	0	1 home destroyed, \$4000 damage		Heavy Rains caused overtopping and failure of earthen dam.
Mar 26, 1951	Vaux dams	Sidney, MT	Foell family			Chronicled in <i>Calamities & Miracles</i> (Feb. 2008), by Richard P. Warren
Aug 19, 1955	Harris Pond dam	Blackstone River, Woonsocket, RI	0	> 1,500 evacuated; Woonsocket flooded		Failure of earthen embankment; disaster inspired city's current flood control system.
1960	Electric Light Pond	Eagleville, NY	1			
March 6, 1963	Spaulding Pond, Mohegan Park	Norwich, CT	6	> \$6 million		From New York Times, 10/22/00: "Norwich hopes to remove dams on Yantic"
June 16, 1963	Little Deer Creek	Near Hannah, Utah	1	Summer cabins damaged		
Dec 14, 1963	Baldwin Hills	Los Angeles, California	5 killed - Advance warning enabled evac of approx 16,500; 27 injured.	Destroyed 65 houses; miles of streets, waterpipes, sewers & gas lines, damaged hundreds of hoouses & apartments	pipng	Dam type/purpose: 12-year-old earthen embankment; Water supply for Los Angeles Dam size: 232' high, 650' long Impoundment size: 20 acres, 70' deep
June 8, 1964	Swift irrigation dam, Marias R. tributary	Swift, Montana (Birch Creek Valley, NW MT)	19	Unknown		
June 8, 1964	Lower Two Medicine	Lower Two Medicine, NW Montana	9	Unknown		.
Dec 22,	Lower Hell	Placer County,		30,000 af flood destroyed 2	Erosion resulting	410-foot high zoned rockfill structure on the Rubicon River; a 200'

1964	Hole Dam	approximately 100 miles east of Sacramento, CA.		suspension bridges and 1 steel girder State highway bridge. \$160M in lawsuits filed for damages.	from record rains during construction	high section of the embankment failed upon record rains during construction
Dec 1967	North Star Sand & Gravel Dams	Everett, WA	0	washed out GN railroad tracks, derailed passing train.	overtopping	40 foot high dam washed out due to lack of spillway. 25 foot high dam rebuilt, also failed
1968	Viriden Creek Dam	Waterloo, IA	1			
Mar 24, 1968	Lee Lake	Near East Lee, Massachusetts	2	6 houses destroyed, 20 houses damaged, 1mfg. plant damaged or destroyed		
January 1970	Pillar Rock Dam	Wahkiakum County, WA	0	3 homes and fish cannery destroyed	overtopping	Logging roadfill culvert blocked by debris, overtopped and failed, caused 25 foot high concrete gravity dam to fail..
Feb 9, 1971	San Fernando Dam	Los Angeles, CA	0	80,000 evacuated	Earthquake: Liquefaction	142'-high, 2,100'-long hydraulic fill dam constructed 1912-1915; Quake caused slide in upstream slope that lowered the crest ~ 30'; reservoir drawn down over 3 days.
May 1971	Sid White Dam	Near Omak, WA	0		Seepage through animal burrows	Earthen dam failed, causing second dam to fail and dump debris into town of Riverside.
Feb 26, 1972	Buffalo Creek	Logan County, West Virginia	125	\$400 million in damages, 546 houses destroyed, 538 houses damaged		
April 29, 1972	Lake O' Hills	Alaska	1 (10-year-old boy)	Unknown	pipng failure at a low level outlet made of 55 gallon drums welded end to end	
June 9, 1972	Canyon Lake Dam	Rapid City, South Dakota	237-238 (33 from dam failure?)	\$60-164 million in damages; 3,000 injured.:	overtopping	34-year-old earth embankment; Dam size: 20' high, 500' long; Impoundment size: 40 acre reservoir, holding 132 million gallons "The safety inspection and repair program was spurred by the collapse of a dam built & operated by the city near Rapid City, S.D., in 1972. More than 200 persons died and damages ran in the millions of dollars." Washington Post 7/15/1978
June 21, 1972	Barcroft Dam	Fairfax County, Virginia	0		Stuck gates during 125 rainfall , tropical storm Agnes.	Web

Feb. 10, 1975	Walter Bouldin	Elmore County, Alabama (near Wetumpka)	0		Official cause: upstream slide due to drawdown. Ralph Peck and Thomas Leps cited piping of foundation soil.	Dam built in 1967; reconstructed and stands today.
June 19 or 20, 1975	Mike Horse	Lincoln, Montana				Dam built in 1941. Part of the dam washed out when culvert became clogged during heavy rains. Thousands of tons of mine tailings washed downstream & killed most aquatic life in upper 10 miles of Blackfoot River
Feb. 22, 1976	New-found Creek Dam (Bear Wallow)	Buncombe County, near Canton, North Carolina	Family of 4			
June 5, 1976	Teton	Near Wilford, Idaho	11	> \$1 billion		
July 1977	Sandy Run, 5 others	Near Johnstown, Pennsylvania	5	Unknown		
July 1977	Laurel Run	Near Johnstown, Pennsylvania	40	\$5.3 million in damages, 6 houses destroyed, 19 homes damages		42' high earth dam; normal pool – 22 acres; storage capac – 11 M gal
Nov 6, 1977	Kelly Barnes Dam	Toccoa Falls, GA	39	\$30 million		
1978	Myron Isabel Dam	Weld County, CO	0	Insignificant	Piping – tree roots, animal burrows	
1979		Swimming Pool, NY	4	Unknown		
July 1979	United Nuclear Corp	Church Rock, N.M	0	Uranium tailings - 93 million gallons of liquid contaminated with low-level radiation & ~ 1100 T of solid waste spread ~ 100 miles downstream		Washington Post 1987 ASDSO West Conf Proc, p. 183 UNC shut down operations April 1982.
2/10/1980	Prospect Valley & Lord Reservoir Dams	Near Keenesburg, Colorado				

10/13/1980	Tyron Tailings Dam No. 3		0	2.5 million cu yds tailings spilt into Mangas Creek.		Phelps Dodge Corporation dam.
Dec. 1981	Coal waste impoundment	Ages (Harlan Co.), Kentucky	1 (Nellie Woolums)			
Jan 1982	Lower St. Anthony Falls Lock & Dam	Mn				
June 1982	21 dams	Connecticut	12	\$300 million		Rocky Mt. News, 6/18/84 "Fingers Still Pointing in Estes Park Flood"
July 15, 1982	Lawn Lake, & then Cascade Lake	Near Estes Park, Colorado	4	18 bridges destroyed, 117 businesses & 108 houses damaged. Campgrounds, fisheries, power plant damaged. \$25 million estimated damages.		"...of the 103 business owners within the zone of high flooding on July 15, 1982, 62% of them have moved away or no longer are engaged in business." http://www.estesnet.com/82flood/Lawn%20Lake%20Story%20p7.htm
Dec 1982	Alexander Lake Dam	Bremerton, WA	0	Caused damage at fish hatchery and homes in Gorst		Spillway undermined and failed during heavy rains.
June 23, 1983	DMAD	Near Delta, Utah	1	Unknown		
7/25/1985	Johnny's Creek	Near Fort Payne, DeKalb County, Alabama	0	Hundreds evacuated	more than six inches of rain in two hours collapsed 25' earth dam	
May 1986	Upriver Dam	Spokane, WA	0	\$11 million damage to facility	Overtopping due to power failure caused by lightning	Lightning struck hydropower facility, turbines shut down. Water rose behind dam while trying to restart. Backup power systems failed, could not raise spillway gates in time
9/10/1986	14 dams (Barryton, White Cloud, Hart Lake, Danaher Lake, Hesperia, Carson City, Childsdale, Cat Creek,	Lower peninsula, Michigan	0	Total flood damages: \$227 million to homes, businesses, public property, roads, bridges and crops in 17 of 22 counties between lakes Michigan and Huron.	Hydrologic event	Belding Dam is one that failed though it didn't occur until January. The investigating engineer stated that the failure was a delayed response to the flooding.

	Bruce Nordland, Rainbow Lake, Luther Pond dams					
Jan 1, 1989	Quail Creek	Utah	0	\$12 million in damages	Seepage, foundation problems	3/7/89 report to Gov. Bangerter concluded that failure cause was the lack of seepage protection of materials placed on the foundation. Design assumption that foundation had very low permeabilities was incorrect and remedial grouting may have aggravated the problem of seepage water against unprotected foundation materials.
Mar 29, 1989	Nix Club Lake	Rusk County, near Henderson, TX	1		overtopping	... man drowned when he drove down a road that had been flooded when water backed up against a railroad trestle after the Nix [dam failure.....]
Sept 15, 1989	Evans & then Lockwood dams	Near Fayetteville, North Carolina	2 children	> \$10 million	overtopping	
Jan 20, 1990	Lake Lonnie Dam	Georgia	0 (young girl swept under floodwaters; rescued by her Mother)	swept away cars and moved several mobile homes off their foundations	Unregulated dam	21.6' height, est. 67AF storage capacity. Midnight failure
Feb 3-17, 1990	Holly Brooke Lake Dam	Shelby County, AL	0	6 families evacuated	Heavy rains and flooding saturated the dam, causing face to slump	Water level on the 55-acre pond impounded by the dam was lowered
Mar 23, 1990	C. D. Clark Dam	Dozier, Crenshaw County, AL	0	Washed out 50 yards of northbound U.S. Highway 29	Heavy rains and flooding	Lake Tholocco, a 600-acre lake on the Fort Rucker reservation near Ozark, was also drained because of excessive flow through its emergency spillway
Mar 23, 1990	Magnolia Shores Lake dam	Crenshaw County, AL	0	Damage to the downstream slope	Heavy rains and flooding, overtopping	To prevent a break in the dam, a channel was dug around the dam to lower the water and the lake was then drained by a controlled breach of the dam.
Oct. 11, 1990	Kendall Lake Dam	Camden, SC	4 (ages 9, 10, 14, & 25)		overtopping	
Nov 1990	Chinook dam	Pacific County, WA	0	~\$100K damage to facility	Overtopping	Heavy rains overtopped embankment & undermined spillway, leading to failure.
October 1991	Seminary Hill Reservoir	Centralia, WA	0	2 homes destroyed, many homes damaged, \$3 million in damage.		Failure along weak rock zone in hillside caused massive slide that breached reservoir. 3 M gallons of water released in 3 minutes.
Jan 1993	Iowa Beef Processors	Wallula, WA near Richland	0	Washed out Union Pacific RR tracks, derailed 5	pipng	Failure of 15-ft high embankment releasing 300 acre-feet of wastewater. attributed to heavy snowmelt entering animal burrows

	Waste Pond Dam #1			locomotives. \$5 M in damage +		near embankment crest, and eroding dam.
1993	Bean Blossom Lake	Monroe County, IN	0			earthen dam failed under the pressure of heavy rains. Water from the 17-acre lake flowed over Anderson Road and forced one man to leave his home.
Feb 1993	Treasure Lake	Boone County, KY		No injuries; residents of 5 houses stranded; large sections of 2 roads, underground phone lines, trees washed out	overtopping	32'-high dam, 15-acre lake 30' x 10' section collapsed (Hassert, Ky Post, 1/07)
July 1994	217 dams throughout state	Georgia	3?			
June 21, 1995	Oceanview Farms Waste Lagoon	Onslow County (near Richland), North Carolina	0	22-25 million gallons of hog waste spilled into tributaries of New River; millions of fish killed; coastal wetland contaminated & closed to shell-fishing		
June 22, 1995	Timberlake Dam	Campbell County, near Lynchburg, Virginia	2	Unknown (dam rebuilt; cost nearly \$1 million)	overtopping	
July 17, 1995	Folsom Dam Gate Failure	Sacramento, California	0	Minor damage to dam & spillway	Gate failure	
Mar 13, 1996	Meadow Pond (or Bergeron Pond) Dam	Alton, New Hampshire	1	\$8 million	Failure in concrete spillway area – no overtopping	
Early 1997	Levees in Sacramento and San Joaquin River basins	California	"Several"	>\$100 M		A series of storms dumped more than 30" of rain on snow-packed watersheds. Levees failed throughout the Sacramento & San Joaquin River basins, causing hundreds of millions of dollars in damages and loss of several lives [Evolving Approach to Levees in California, Shewbridge, et al, Journal of Dam Safety, Fall 06]
Sept 27, 1997	10 dams, including Charmaine, Galahad, Tristan, Urand	Near Woodville, Texas	0		13" rain in 4 hours	35 dams have failed in TX in the past 10 years. In the past year, 10 dams collapsed near Woodville, 2 failed in the Nueces River watershed.
Winter	Lava Cap	Near Nevada	0		Rotted log in	Failure released 10,000 y ³ of arsenic-tainted tailings into Little

1997	Mine tailings dam	City, California			dam	Clipper Creek & Lost Lake
1998	California Jim's Pond dam	Peace Dale, Rhode Island	0	Roads washed away, village flooded; ~ \$250,000 to rebuild dam; ~ \$400,000 damages – incl. \$325,000 to town property		Failure prompted development of the statewide regulations effected 12/07.
4/18-19/99	Murphy Family Farms Hog Waste Lagoon	Duplin County, North Carolina	0	1.5 million gallons of hog waste spilled into wetlands and a tributary to the Cape Fear River.	Excessive seepage, site left unattended while transfer pumps running	Owner fined \$40,650 for breach.
9/99	12 unregulated, low hazard dams failed or severely damaged	Eastern Virginia	0	Five failures involved highway closures and substantial economic disruption. Rebuilding Cow Creek Dam - cost about \$160,000.	Hurricane Floyd	
9/99	40 failures	North Carolina	0		Hurricane Floyd	
9/99	7 incidents	New Hampshire	0		Hurricane Floyd	<ul style="list-style-type: none"> •Opened gates - 9: Silver Lake (NH00062), Chesham Pond (NH00063), Harrisville Pond (NH00065), Howe Pond (NH00095), Milton Three Ponds (NH00320), Mascoma Lake(NH00153), Bunker Pond (NH00280), Buck Street (NH00929), Island Pond (NH00180) •Pulled stoplogs - 4: Island Pond (NH00180), Highland Lake (NH00054), Great Pond(NH00741), Pine River Pond(NH00110) •Flashboard failure - 1: Shelburne (NH00052) •Minor washout - 1: Durand Pond (NH00848) •Condition yellow flow - 2: Cross Dam (NH00088), Ashuelot Pond (NH00237) •Initiated EAP - 1: Ashuelot Pond (NH00237) •Unregistered dam failure - 1: Easton, damaged Rt. 116
9/99	4 complete failures	New Jersey	0		Hurricane Floyd	
9/99	2 failures, one overtopping	Massachusetts	0		Hurricane Floyd	One complete failure of a run of the river cycloplan structure that almost took out a campground. One overtopping of an earthen dam that unravelled and exposed a water line that services a major city One roadway dam overtopped and failed and road had to be closed and pond drained in a state park
10/11/00	Massey	Martin County,		>300 M gals of slurry	Dam did not fail;	

	Energy coal waste impoundment	Kentucky		released into the Big Sandy and Ohio rivers.	bottom of impoundment collapsed into mine shaft.	
March 2001	Saco Lake dam	Ulster Township, Pennsylvania	0			
Aug. 12, 2001	Hearns Pond Dam	Delaware	0	\$500,000. 60-acre impoundment drained, washout of U.S. 13A near Seaford, Delaware.	Heavy rain	
1/25/02	Pine Lake Dam	Forsyth County, Georgia	0	1 family evacuated; 8 other homeowners put on evacuation alert		Near failure of 35-foot earthen dam impounding 15-acre Pine Lake. Dam's ownership unclear, county sought repair estimate in 2001; balked at \$885,000 quote.
9/02	Windy Hills Lake dam	Harrison County, Mississippi	1(indirect)*		Tropical Storm Isidore	*3/03: Man died after driving around a barricade placed around a washout from the failure.
3/20/03	Chatmoss Country Club dam	Henry County, Virginia	0	\$10,000 spent on emergency repairs	Heavy rain	Notch cut in dam to prevent failure.
5/5/03	Rumph's Pond dam (private, low hazard)	Dorchester County, South Carolina	0	Minimal: \$400-\$500 estimated damage to Norfolk Southern Railway property; about \$144,000 in damages to the dam and a nearby cornfield (unofficial est.)	Sabotage suspected; criminal charges filed.	21-acre lake, 13' high dam, 70 acre-foot impoundment.
5/7/03	privately owned dam	East Ellijay, Georgia	0	No injuries, 6 houses evacuated, 3 trailers damaged.	Heavy rains	
5/13/03	Silver Lake & Tourist Park dams	Near Marquette, Michigan	0	\$102 M, incl \$127,000 in emergency/ public safety, \$3 M in roads/ bridges, \$10.4 M in utilities, \$4 M fisheries, soils & trees & \$84 M in economic loss	Silver Lake fuse plug failure, resulting overtopping & failure of Tourist Park dam	
5/26/03	Hope Mills	Hope Mills, North Carolina	0	est. \$2.1 M damages; 1600 evacuated; estimated cost of rebuilding dam: \$6M	Heavy rains, stuck dam gate	
5/27/03	Lake Upchurch	North Carolina		Lake Upchurch dam reconstruction costs		4 additional dams damaged; another 16 overtopped during rainfall event (4-6" in less than 24 hrs)

	and McLaughlin Lake dams			estimated at more than \$350,000.		
6/14/03	Polk Township dam	Polk Township, Pennsylvania	0	20 homes evacuated	Heavy rains	Officials also concerned about Twin Lakes Dam in Smithfield Township; nursing home put on alert while the dam was stabilized.
6/22/03	Lake Manatee gate failure	Florida	0	2 upstream homes destroyed; 600 homes evacuated	Heavy rains	Dam did not fail; gate stuck in closed position, causing lake to swell beyond its banks. Diver finally opened gate after numerous unsuccessful attempts.
8/9/03	Private dam	Penn Run, Indiana County, W. Pennsylvania	0		Heavy rains	Up to 200 campers left Yellow Creek Camp Ground after a private dam about three miles upstream overtopped.
3/12/04	Big Bay Lake dam	Near Purvis, Southern Mississippi	0	98 homes, 2 churches, fire station, bridge damaged or destroyed; livestock, pets. SBA estimate: >\$2.2 million. \$2.5 million dam, > \$50K Red Cross		900 -1,100 acre lake; 3.5 billion gallons; quarter-mile-wide flood path extending at least 17 miles downstream
3/17/04	Private dam	Augusta County, Virginia	0	NA	Severe erosion, inadequate spillway	State drains dam after unsuccessful attempt by owner, who had been ordered to do so in January
4/4/04	Levee system	Toyah, Texas	0	40 homes		State dam safety program did not visit that area.
4/04	Name unknown	Fort Stockton, Texas	0	Dam overtopped; heavily damaged	Heavy rains	Near failure
4/8/04	Smiths Pond Dam	Leominster, Massachusetts	0	0	Heavy rains	Dam overtopped; spillway clogged by debris. Divers from the Leominster EMA and crane operators worked to clear the spillway.
4/24/04	Small earth dam on 10-acre lake	Pearl County, Mississippi	0	2 homes flooded, 1 car swept off road	Heavy rains, 6-10"	near Anchor Lake subdivision, between Picayune and Poplarville
5/4/04	Lake Susan dam	Montreat, North Carolina	0	Several homes evacuated		Near failure: Collapse of a 35' section of the dam's upstream wall. Residents were allowed to return to their homes after the lake was drawn down to a safe level. The Montreat Conference Center, which owns the 79-year-old dam, had already planned to repair the dam starting in mid-August, and has raised \$900,000 toward the effort.
5/13/04	Callaway Dam	Near Hearne, Texas	0	Unknown	Storm event of approximately 47% of the PMP (15" in 6 hrs)	Callaway Dam was overtopped by about 1.5' before it failed. (See next entry.)

5/13/04	McGuire Dam	Near Hearne, Texas	0	Unknown	Storm event of approximately 47% of the PMP (15" in 6 hrs)	McGuire Dam is located downstream of Callaway Dam. It was overtopped by at least 3' before failure. The sequence of failure is not known. The stream does not go through Hearne so the flooding in Hearne was not from the failures.
5/24/04	Bohemia Mill Dam/Bridge	Bomenia Mills, Cecil County, Maryland	0		Road closed due to piping beneath spillway.	Low hazard dam
6/3/04	Levee – Upper Jones Tract	Near Stockton, CA		350-foot section washed out. No injuries reported. About 20 houses, 50 barns, other structures flooded; thousands of acres of crops destroyed. Declared federal disaster, with \$90 million in damage.		
6/14/04	Simmons Dam	Washington County, Pennsylvania	0	No significant damages, no mandatory evacuations (but some voluntary)	Heavy rains, 1.75" in 1 hr.	No failure, dam overtopped. NWS issued warning that the dam had failed, but later retracted the warning. DEP ordered owner to drain lake & obtain permit for dam improvements; dam meets regulatory criteria, but had not been on state inventory.
6/16/04	2 dams in Powhatan Wildlife Mgmt Area	Virginia	0	Two 30 acre impoundments	Heavy rains, ~5" in 2 hrs.	
7/04	Piedmont Driving Club Dam	Atlanta, Fulton County, Georgia	0		Poor design, construction	
7/3/04	Small earth dam	Decatur, Arkansas	0	At least 5 businesses damaged	Heavy rains, 5-6"	
7/13/04	21 dams	South New Jersey	0	Extensive, >\$30 million estimate, 350 homes flooded	Heavy rains, 13" in 12 hrs	Another 26 dams damaged
7/25/04	Lake Powell dam	James City, Virginia	0	\$5,000 for emergency repairs		Dam had suffered extensive damage from Hurricane Floyd; \$55,000 spent on repairs.
7/04	Essex Mill Dam	Essex County, Tappahannock, VA		Drained small recreational lake		
8/30/04	Lake Idylwild Dam	Hanover County, VA		Minor damage to SR 628.	Dam overtopping	Tropical Storm Gaston dumped 12" rain in 8 hours in watershed. Rainfall from storm exceeded the dam's spillway capacity.
8/30/04	Two farm pond dams	Hanover County, VA	1 – woman's vehicle swept from road, Hanover County, VA	Minor damage to SR 301		Tropical Storm Gaston

09/2004	East Lake Dam	Birmingham, AL			Hurricane Ivan	270 evacuated due to potential for dam break.
10/8/04	Timber (York) Lake dam	Purvis, Mississippi	0	Minimal – low hazard dam	Improper installation of new drainage system	
10/11/04	Victor Lake (aka Upper Stinchomb)	Fayette County, Georgia	0		Unregulated dam, lack of maintenance, vegetation on embankment	Unregulated dam impounding 15 acre lake failed suddenly and flooded part of a trailer park. Approximately 20 trailers received damage; around 20 people rescued by emergency personnel
11/24/04	Keith Lake dam	St. Clair County, near Odenville, Alabama	0	Decreased property values, environmental damages, driveways covered with mud, ~20% damage to downstream dam	Heavy rains	Lake ~1200 yards long, 450 yds wide, 40' deep. 60-70' earth dam. Downstream homes evacuated. Earth dam. Failure not covered by media. .
4/26/05	Simplot Wastewater Lagoon #1	Near Hermiston, OR	0	Breach of off-channel reservoir resulted in breach of canal, loss of irrigation water, agricultural lands, water/mud damage to farm houses & outbuildings.		
7/2/05	Hadlock Pond dam	NY	0	At least 4 homes destroyed, ~12 w/ moderate to severe damage, roads washed out, power outages. > \$1M damages.	Heavy rain, first filling, piping, suspected const. flaw	Embk. dam completed 5/05. 220-acre lake, 12-15' deep. state Rte 149 closed, major link between upstate NY & VT
7/22/05	Wheeler Island levee	California	0			20-25' foot breach occurred 7/22 on isolated 1,000 acre Island devoid of any residences or other structures. Waters of Honker Bay flooded land mostly used for hunting.
9/05	Levees	New Orleans, LA	>1,000		Hurricane Katrina	
10/18/05	Whittenton Pond Dam	On Mill R., Taunton, MA	0	~2,000 evacuated, including a housing development for the elderly		173-year-old wooden dam , ~100' across, ~12' high,
12/14/05	Taum Sauk	Lesterville, MO	0 (3 children critically injured)	Toops family home demolished; state highway washed out; at least 3 trucks swept from road. E extensive damage to Johnson's Shut-Ins, the	Suspected instrumentation failure caused water to be pumped into reservoir.	In Nov. 2007 the state reached a \$180 million settlement with the utility that owned the reservoir.

				East Fork of the Black River and the mountainside.		
3/14/06	Kaloko Reservoir Dam	Island of Kauai, Hawaii	7		Overtopping, lack of spillway	Earth dam built in 1890. Storage was about 420 million gallons. The embankment had a maximum height of about 40 ft. Dam crest was about 770' long & 15' wide. Failure report: http://the.honoluluadvertiser.com/pdf/kaloko/Kaloko-Report.pdf
6/7/06	Geary levee	Upper Klamath Lake, Oregon	0 No injuries	Flooded Highway 140 & 2,000 acres of farmland, \$4.5 M to repair highway. No structures damaged, but some farm eqp. ruined		
6/25/06	Galestown Dam	Galestown, Dorchester Co, MD	0	Roads washed out; dam replacement cost \$2.5M		
6/28-29, 2006	Needwood Dam	Gaithersburg, MD	0	2200 evacuated for 3 days	>1' of rain in 10 hrs	65' high, 40-year-old earth dam sprang 7 leaks at toe; lake reached 23' above flood stage
4/07	Mossman Dam	Hollis, NH		Property owners spent ~ \$500,000 on cleanup & repairs		
4/07	Whittle Brook dam 097.03	NH			Overtopping, storm	
4/07	Cole Marsh dam NH01042	NH			Overtopping, storm	
4/07	Hansonville Pond dam NH01091	NH			Overtopping, storm	
4/07	Spit Brook dam 165.10	NH			Overtopping, storm	
4/07	Walkers Dam	VA				
4/15/07	Lee's Fishing Lake Dam	Hamilin, Lincoln Co, WV	0	Nearly 1000 evacuated	~2.5" rain in 24 hrs.	Pond had been drained, then refilled by new owner 22' high HH dam
4/16/07	Rogers Pond Inv# 12702	Sherman, CT			Overtopping	Part of the embankment failed; breach area ~ 15 ft deep and 30ft wide.
4/16/07	Disrow Pond dam (Inv#810)	Bethany, CT				embankment failed near inlet structure. The breach was approximately 12 ft high and 15 ft wide. The dam was designed by NRCS.
4/16/07	Millers Pond dam	CT			Emergency spillway failure	

	Inv#15205					
4/16/07	Nottingham Dam NH00522	Newmarket, NH	0	"upwards of 1000 evacuated"	Overtopping	
4/17/07	Rainbow Lake Dam	Pittsgrove Township, NJ	0	County roadway washed out; repair will cost "several million" – gas main broken.	Overtopping, ~5-10" rain over weekend	From NJ Dam Safety: Sun-Mon, 4/15-16, "nor'easter" dumped up to 10" of rain in parts of NJ. Muddy Run watershed. Salem Co, particularly hard hit w/ high flood flows that overflowed and failed Rainbow Lake Dam on SR 56 in Pittsgrove Township. The 20' high earth embankment dam w/ state highway atop impounded an 80 acre lake. Dam owner: NJ DOT.
4/18/07	Hayden's Mill Pond Dam NH00504	Hollis, NH	0	Dam severely damaged. 12 families evacuated. Pond supplied water for fighting fires; replacement will cost 100s of thousands of dollars.	Overtopping. Heavy rains filled drained pond.	Sudden structural failure averted by controlled breach. If Gov. Lynch's request to designate the state as a disaster area comes through, 75% of the dam's cost could be covered by federal funds.
1/1/08	Pure Oil (aka Rhine) Lake Dam	Van Zandt County, East TX (near Van)	0	County road closed	Both drought & flooding suspected	350-acre lake. Dam failed at spillway.
1/5/08	Truckee Canal	Fernley, NV	0	~600 homes flooded; 2-month loss of agriculture water supply to ~3,000 users	Canal built in 1903; poor construction & maintenance; woody vegetation & animal burrows present	Break occurred just after 4am. Dozens evacuated by boat & helicopter. Up to 3500 people stranded; at least 165 in shelters. Est. repair/replacement costs: \$28 - \$390M million
3/08	Lake Bella Vista Dam	Bentonville, AR	0	Washed out road across the dam.	Hydrologic deficiencies, faulty materials	FEMA may grant \$ 700,000 for repairs; reconstruction could cost approximately \$2.2 million.
3/17?/08	Moon Valley Lake	Columbia, MO	0	Emptied 17-acre lake; probable decrease in property values		Unregulated dam
4/5/08	Locklin Lake Dam	Milton, FL	0	Minor damages to residential area		Locklin Lake Committee had been in process of replacing old wooden dam; awaiting approval to finish construction.
6/08	Earlham Lake Dam	Johnson County, IN	0	Callon Road washed out, eliminating road access to 78 homes for 5 days.	Hydrologic deficiency, overtopping	Three others were damaged by June floods, >10" rain overwhelmed spillways previously termed inadequate by the state. (3) East Lake Dam in Johnson County
6/7/08	East Lake Dam	Prince's Lakes,	0	100 homes damaged, road access to ~120 homes cut	Hydrologic deficiency,	

		Johnson Co, IN		off; dam severely damaged	overtopping	
6/08	Victor Conservation Club dam	Morgan Co, IN	0	Dam severely damaged	Hydrologic deficiency, overtopping	
6/08	Graybrook Dam	Owen Co, IN	0	Dam severely damaged; ~40-acre lake emptied	Hydrologic deficiency, overtopping	Owned by the Graybrook Conservation Association
6/9/08	Lake Delton	Lake Delton, WI	0	245-acre lake emptied; 5 homes destroyed; highway washed out. 20 lakeside resorts affected. \$Millions		Lake embankment (a peninsula, not the dam) washed out.
8/16/08	Redlands Ranch Dam	Grand Canyon (Havasu), AZ	0	Damaged waterfalls, pools & trails, repairs will take at least 6 months.	Neglect, poor design & construction	~ 426 people evacuated by helicopter. Previous dam (Cataract) failed in 1993,
8/30/08	Hebgen Dam	West Yellowstone, ID	0	No property damage	Gate failure	Failure of two hydraulic gates released 3,400 cu ft (normal discharge: 900 cu ft) water, causing 1' rise in Madison R. No evacuations.
9/17/08	Breedsville Dam	Van Buren Co, Michigan	0	Flooded park	Heavy rains	Break in darthen part of Black River dam built in 1837; dam impounded 8-acre pond.
11/12/08	Mill Creek Dam	Cosmopolis & Aberdeen, Grays Harbor Co, WA	0	Pedestrian bridge washed out; residential areas flooded; ~12 homes received flood damages	Dislodged root balls from fallen trees on embankment	"...serious situation was narrowly averted as a pedestrian bridge was washed out with children on their way to school..."
12/22/08	Kingston Plant coal waste dam	Harriman, ~ 50 mi. west of Knoxville	0	5.4 million cubic yards (> 1 billion gal) of sludge damaged 12 homes and covered hundreds of acres . Cleanup costing ~\$1 million per day.		40-acre pond used by the Tennessee Valley Authority to hold slurry of ash generated by the coal-burning Kingston Steam Plant. The dam gave way just before 1 a.m, burying a road and railroad tracks leading to the plant. No one was seriously injured or hospitalized.
1/6/09	Etowah County, near the Gallant Community	AL	0	Floodwaters washed away a culvert and a private dam broke producing up to 12 ft. of flooding in the area causing residences to be evacuated. A dozen roads were also closed due to the floodwaters and property damage was reported to be \$100,000 (\$103,000 in 2010 dollars).	Heavy rains and flooding	

7/24/10	Lake Delhi Dam	IA	0			
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*submitted from website link