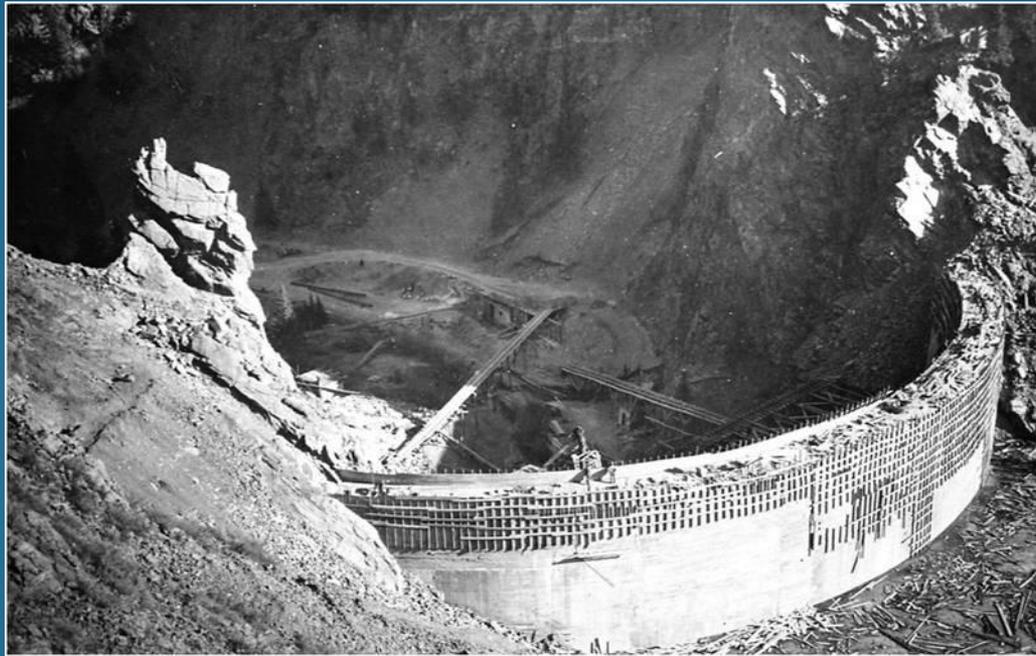


New Mexico Water Infrastructure—Status of Dams



Eagle Nest Dam under construction
Circa 1917

NMOSE Dam Safety Bureau



Interstate Stream Commission

NM Dam Safety Program

- Regulation of Dams
- Enforcement of State Statute and NM Code.
- 4 Dam Safety Engineers
 - Executive Assistant
 - Bureau Chief





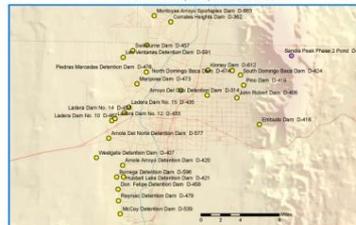
NM OSE Regulated Dams



OSE District Offices



INSET - Albuquerque Area Dams



Over 500 dams – 407 in the 2018 National Inventory of Dams -- 298 directly regulated by the State Engineer

Dams in 29 of 33 Counties

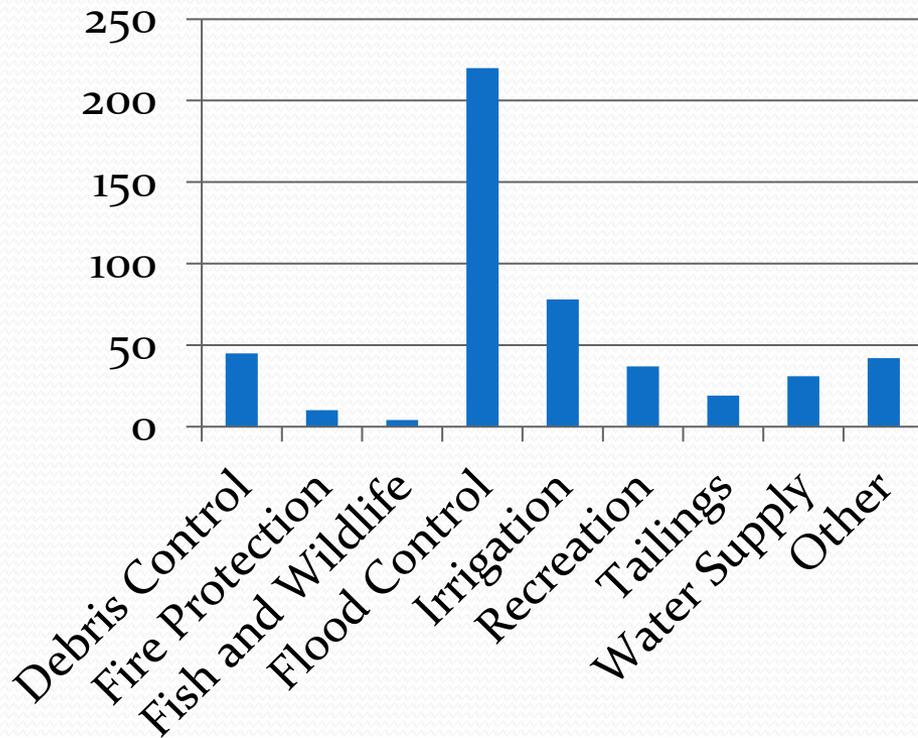
All NMOSE dams have a Condition Rating and a Hazard Potential Rating

172 have potential to cause loss of life in a failure event

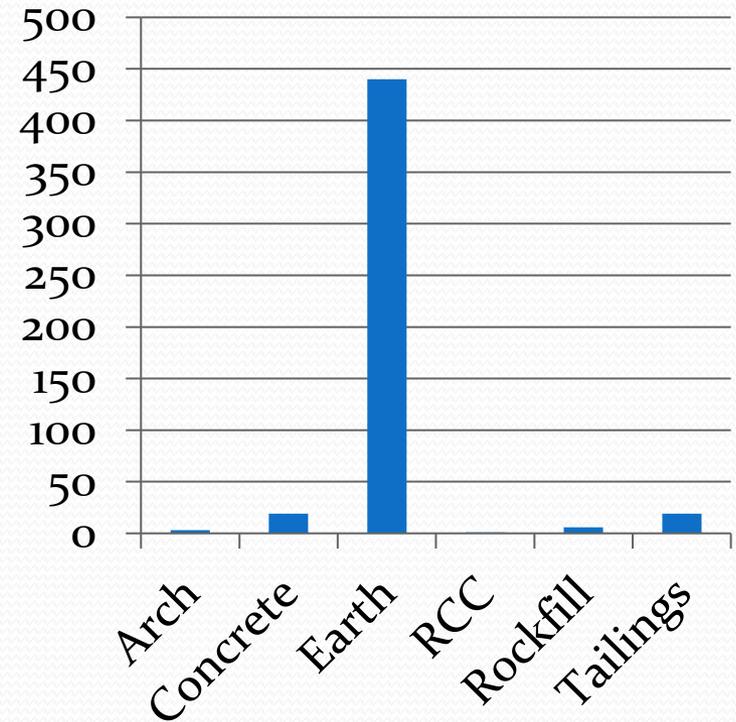


New Mexico Dams

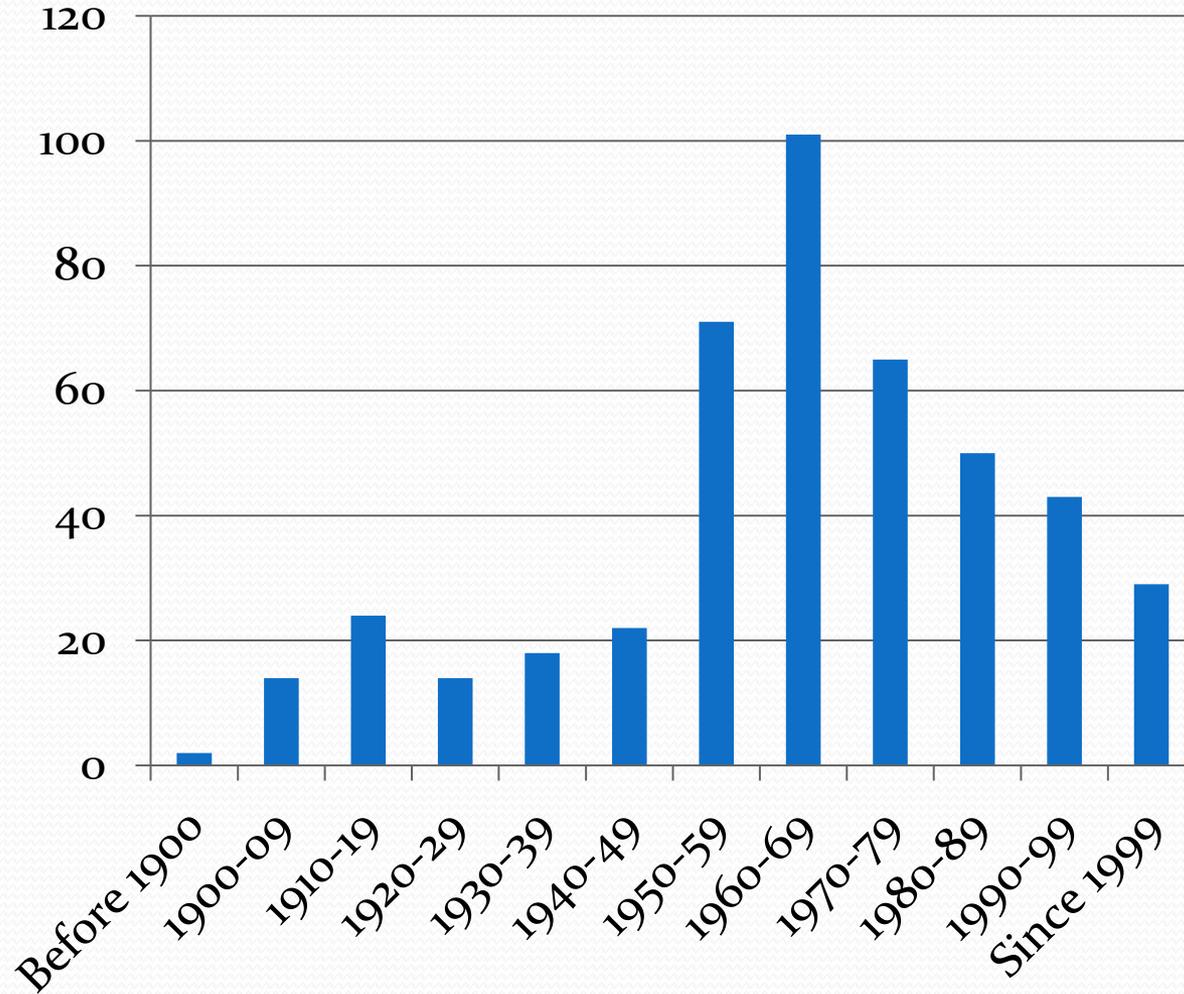
Number of Dams by Purpose



Number of Dams by Type

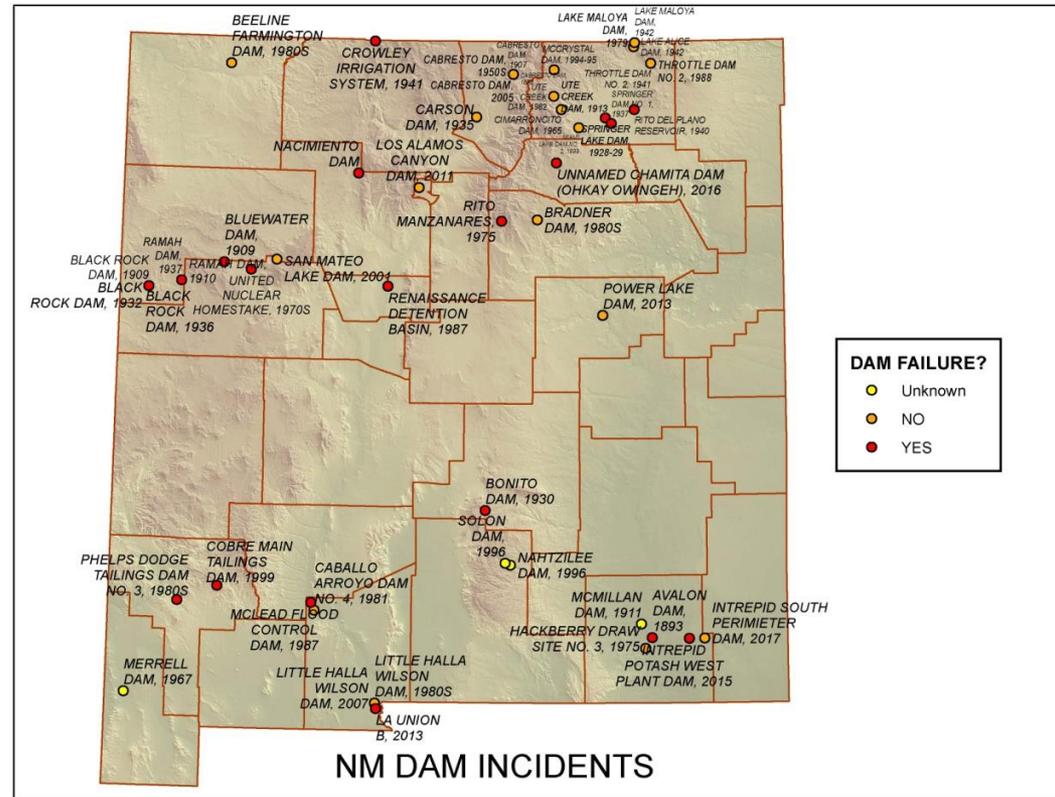


New Mexico Issues – Age



Status of Dams — Incidents and Failures 1890- 2017

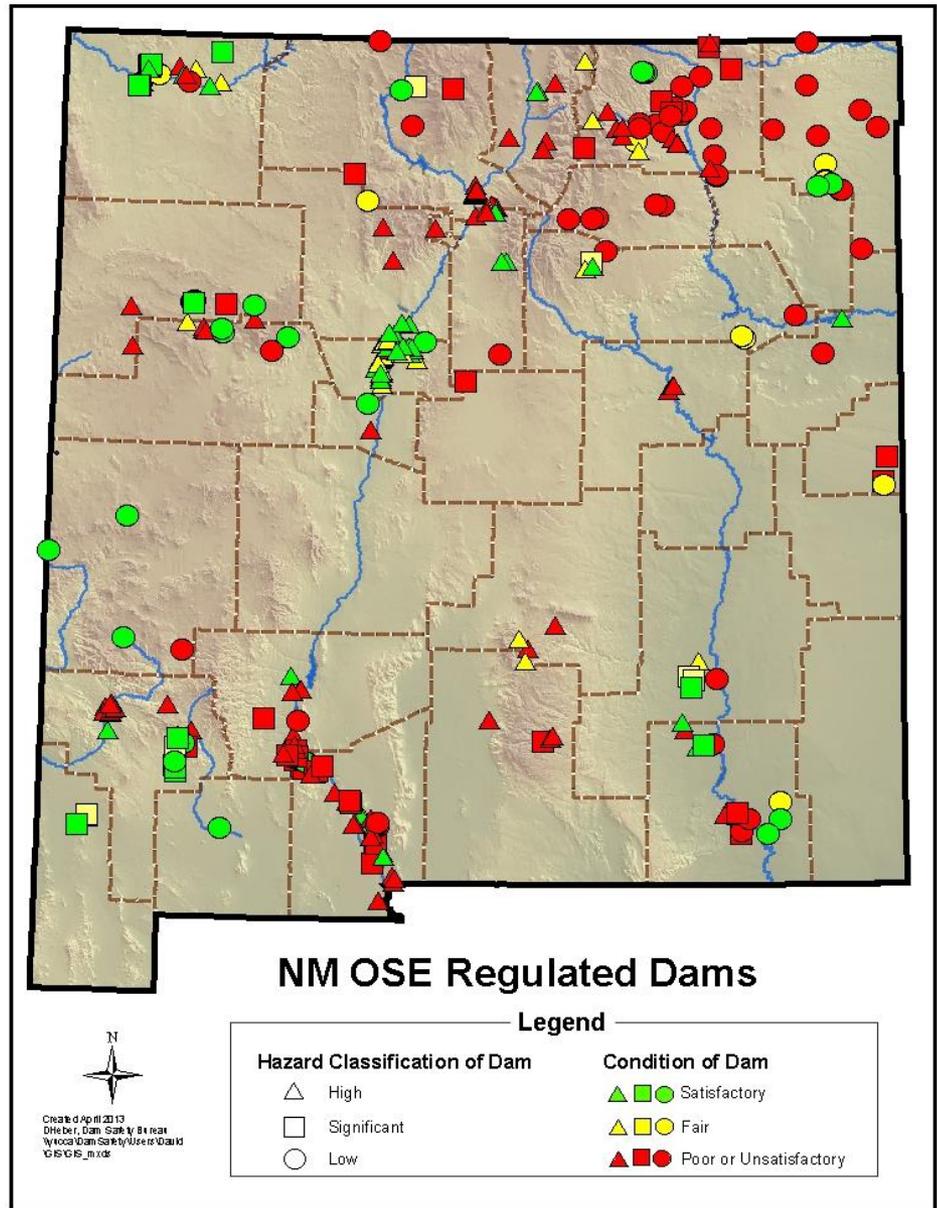
ID	COUNTY	DAM NAME	NATIONAL ID	OSE DAM FILE NO	LATITUDE	LONGITUDE	D/
1	DONA ANA	LA UNION B		NJ	31.9477	-106.6741	20
2	GUADALUP E	POWER LAKE DAM	NM00319	D-319	34.9268	-104.6801	20
3	LOS ALAMOS	LOS ALAMOS CANYON DAM	NM00299	D-299	35.8835	-106.354	20
4	DONA ANA	LITTLE HALLA WILSON DAM	NM00661	MISC	31.989	-106.682	20
5	TAOS	CABRESTO DAM	NM00240	D-240	36.7467	-105.4983	20
6	CIBOLA	SAN MATEO LAKE DAM	NM00356	D-356	35.3237	-107.6338	20
7	COLFAX	MIAMI LAKE DAM NO. 2	NM00344	D-344	36.3431	-104.8927	19
8	GRANT	COBRE MAIN TAILINGS DAM	NM00417	D-417	32.8513	-108.0876	19
9	COLFAX	MCCRISTAL DAM		4420			19
10	COLFAX	THROTTLE DAM NO. 2	NM00361	D-361	36.8272	104.2274	19
11	BERNALILLO	RENAISSANCE DETENTION BASIN	NM00480	D-480	35.1362	-106.6242	19
12	DONA ANA	McLEAD FLOOD CONTROL DAM	NM00343	D-343	32.7384	-107.2571	1987
13	COLFAX	UTE CREEK DAM	NM00317	D-317	36.58	-105.1228	1982



PIPING	YES	INTERNAL EROSION ALONG RODENT BURROWS
SLOPE FAILURE	NO	DOWNSTREAM SLOPE FAILED

Status of Dams

- 60% of High Hazard potential dams will spillway capacity issues
- 33% with spillway capacity <30%
- Uncertainty and Risk—multiple dams
- 12 dams under State Engineer Order

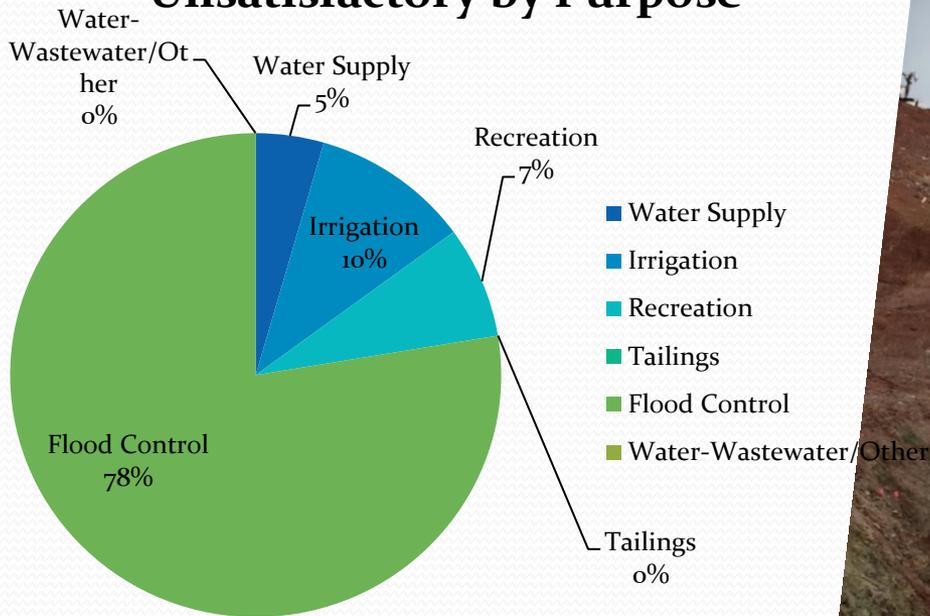


NM ISSUES

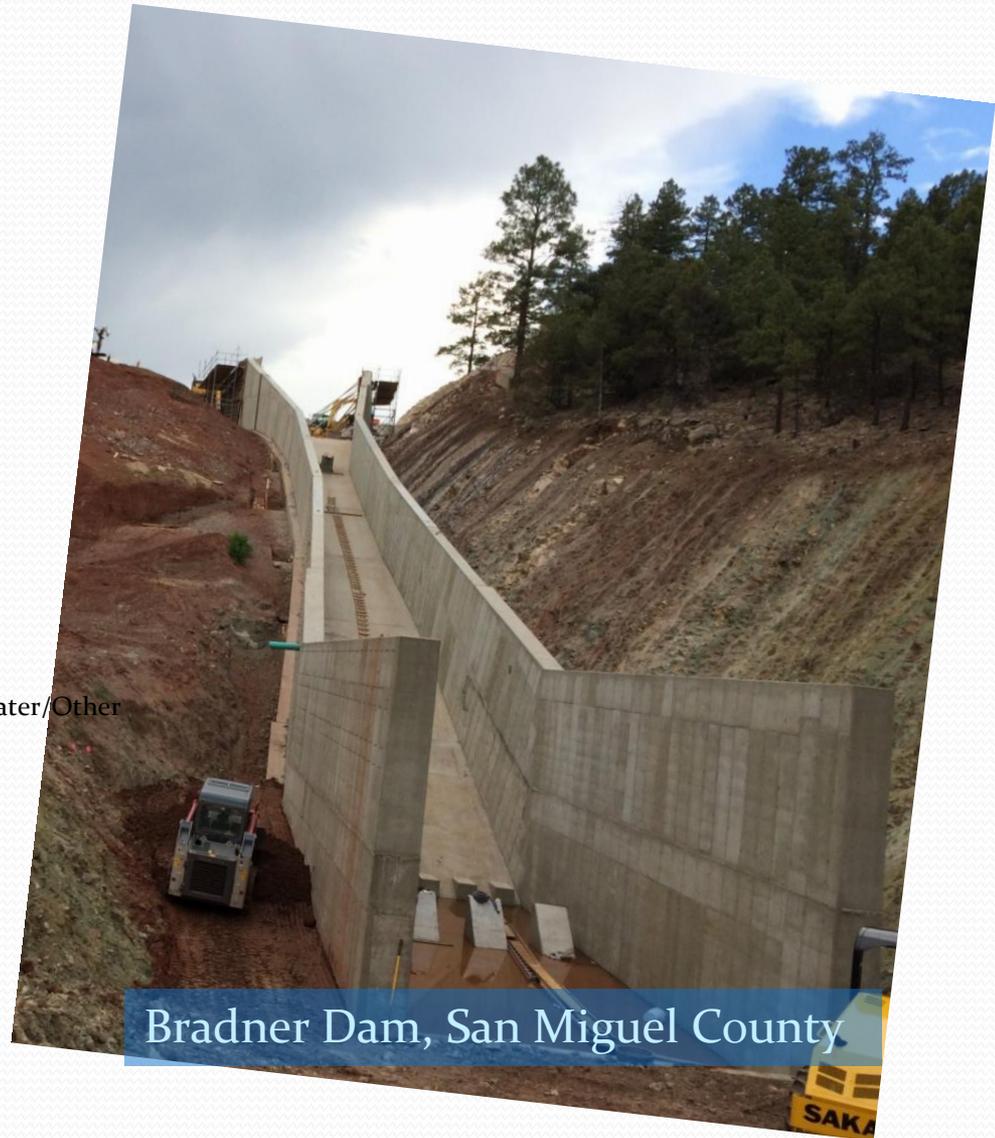


Status of Dams – Maintenance and Rehabilitation

Percentage of High Hazard Potential Dams Ranked Poor or Unsatisfactory by Purpose



A Multi-million \$ Issue



Status of Dams – Rehabilitation Successes



Morphy Lake Dam, Mora County



Status of Dams – Rehabilitation Successes



Springer Lake Dam No. 2, Colfax County



Status of Dams – Rehab Planning

- **Cimarroncito Dam– Colfax County**
- **Santa Cruz Site 1 Dam – Rio Arriba County**
- **San Mateo Lake Dam – Cibola County**
- **Nichols Dam – Santa Fe County**
- **Bear Canyon Lake Dam – Grant County**
- **Sebastian Martin Dams – Rio Arriba County**
- **Tortugas Site 1 Dam, Dona Ana County**
- **Power Lake Dam—Guadalupe County**
- **Webster Dam – Philmont – Colfax County**
- **Upper Rio Hondo Site 1 Dam -- Lincoln County**
- **Lake Maloya Dam – Colfax County**
- **Miami Lake Dam – Colfax County**
- **Bonito Lake Dam – Lincoln County**
- **Peterson Dam – San Miguel County**

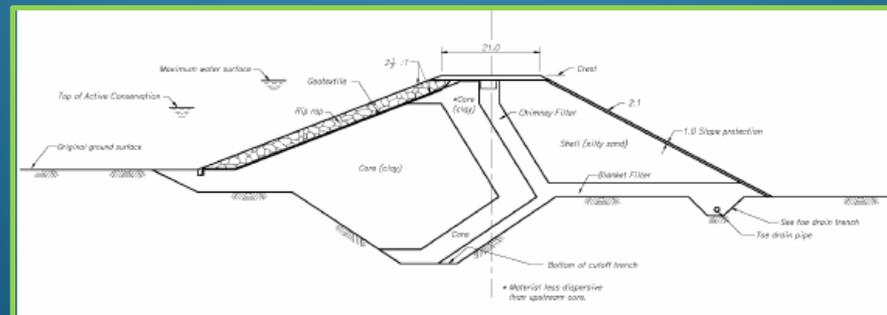
Dam Safety—A Shared Responsibility

- Prioritization
- Project Management
- Owner Support
- Funding
- Follow up



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President-Elect ASDSO