

RESERVOIR SEDIMENTATION

JEMEZ CANYON RESERVOIR

57-15

DATA SUMMARY

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Dept. of Army, C of E		2. RIVER Jemez River		3. STATE New Mexico			
	4. SEC. 32 TWP. 14N RANGE 4E		5. NEAREST TOWN Bernalillo, NM		6. COUNTY Sandoval			
	7. STREAM BED ELEV. 5122		8. TOP OF DAM ELEV. 5257.50		9. SPILLWAY CREST ELEV. 5232			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE-FEET	14. ACCUMULATED ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL	5232	2,895	117,213	117,213	15 Mar 1955 ^{2/}		
	d. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
f. INACTIVE						19 Oct 1953		
WATERSHED	17. LENGTH OF RESERVOIR 5 MILES			AV. WIDTH OF RESERVOIR 1.0 MILES				
	18. TOTAL DRAINAGE AREA 1,034 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 17.0 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 1,034 SQ. MI.			23. MEAN ANNUAL RUNOFF 0.66 INCHES				
	20. LENGTH 48 MILES AV. WIDTH 22 MILES			24. MEAN ANNUAL RUNOFF 36,340 (17) ^{1/} AC.-FT.				
	21. MAX. ELEV. MIN. ELEV. 5122			25. CLIMATIC CLASSIFICATION Semi-arid				
SURVEY DATA	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE-FEET	33. C/W RATIO AC.-FT. PER SQ. M
	Oct 1953	-	-	Contour	10 feet	2,895	117,213	113
	Jan 1958	4.2	4.2	Range	12 Ranges	2,895	115,821	112
	Aug 1959	1.6	5.8	Range	12 ranges	2,880	113,874	110
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE-FEET			36. WATER INFL. TO DATE AC.-FT.		
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE	
	Oct 1953		33,420	74,149	142,039	33,420	142,039	
	Jan 1958		78,204	106,309	130,335	46,032	272,374	
	Aug 1959							
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET			
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.		
Oct 1953								
Jan 1958	1,392	331.	0.320.	1,392	331	0.320		
Aug 1959	1,947	1,217	1.177	3,339	576	0.557		
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM		
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TO DATE	a. PERIOD	b. TO DATE	
Oct 1953								
Jan 1958	75.7*	527	527	0.282	1.19	11,900	11,900	
Aug 1959	75.7*	2,007	950	0.491	2.85	18,100	14,900	
* Assumed								

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT
1954	5142.70	5125.0 ^{3/}	24,760				
1955	5146.10	5125.0	25,630				
1956	5134.80	5125.0	16,170				
1957	4148.20	5125.0	41,620				
1958	5213.36	5125.0	36,200				
1959	5155.60	5125.0	27,980				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
5250	3,990	174,543	5160	472	5,481			
5240	3,275	138,483	5150	258	1,903			
5230	2,787	108,207	5140	90	167			
5220	2,320	82,706	5130	0	0			
5210	1,885	61,713						
5200	1,520	44,831						
5190	1,248	30,945						
5180	958	19,925						
5170	732	11,549						

47. REMARKS AND REFERENCES
 1/ Runoff for 17 years (1936-37, 1943-59).
 2/ Storage for sediment retention.
 3/ Invert Elevation of Outlet Works.

48. AGENCY SUPPLYING DATA Corps of Engineers
 Southwestern Division
 Albuquerque District, Albuquerque, New Mexico

49. DATE Revised in OCE
 June 1962

RESERVOIR SEDIMENT
DATA SUMMARY

JEMEZ CANYON RESERVOIR

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

NAME OF RESERVOIR

57-15a

DATA SHEET NO.

DAM	1. OWNER Dept of Army, C of E			2. STREAM Jemez River			3. STATE New Mexico																									
	4. SEC. 32 TWP. 14N RANGE 4E			5. NEAREST TOWN Bernalillo, NM			6. COUNTY Sandoval																									
	7. STREAM BED ELEVATION 5,122			8. TOP OF DAM ELEVATION 5,257.50			9. SPILLWAY CREST ELEV. 5,232																									
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA ACRES		13. ORIGINAL CAPACITY ACRE-FEET		14. GROSS STORAGE ACRE-FEET		15. DATE STORAGE BEGAN																					
	a. MULTIPLE USE																															
	b. FLOOD CONTROL		5,232		2,895		73,000		117,213		1/15 Mar 55																					
	c. POWER																															
	d. WATER SUPPLY																															
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN																					
	f. CONSERVATION																															
	g. SEDIMENT		----		----		44,213		44,213																							
	h. INACTIVE										19 Oct 53																					
WATERSHED	17. LENGTH OF RESERVOIR				5 MILES				AV. WIDTH OF RESERVOIR				1.0 MILES																			
	18. TOTAL DRAINAGE AREA				1,034				SQ. MI.				22. MEAN ANNUAL PRECIPITATION				17.7 (52.2) INCHES															
	19. NET SEDIMENT CONTRIBUTING AREA				1,034				SQ. MI.				23. MEAN ANNUAL RUNOFF				0.75 INCHES															
	20. LENGTH				48				MILES				AV. WIDTH				22				MILES				24. MEAN ANNUAL RUNOFF				41,220 (23.7) AC.-FT.			
	21. MAX. ELEV.				11,250				MIN. ELEV.				5,122				25. CLIMATIC CLASSIFICATION				Semi-arid											
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		29. TYPE OF SURVEY		30. NO. OF RANGES OR CONTOUR INT.		31. SURFACE AREA ACRES		32. CAPACITY ACRE-FEET		33. C/W RATIO AC.-FT. PERSQ. MI.																	
	Oct 1953		---		---		Contour		10 feet		2,895		117,213		113																	
	Jan 1958		6/4.25		4.25		Range		12 Ranges		2,895		115,821		112																	
	Aug 1959		6/1.67		5.92		Range		12 Ranges		2,880		113,874		110																	
	Dec 1965		6/6.33		12.25		Range & Contour		12 Ranges-3/5 feet		2,891		112,809		109																	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE-FEET		36. WATER INFL. TO DATE AC.-FT.		a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE															
	Oct 1953		4/14.95		33,421		74,149		142,039		33,421		142,039		46,009		272,374															
	Jan 1958		4/17.06		78,045		106,309		130,335		46,009		272,374		41,491		508,266															
	Aug 1959		4/16.08		37,266		55,249		235,892		41,491		508,266																			
	Dec 1965																															
	26. DATE OF SURVEY		37. PERIOD SEDIMENT DEPOSITS ACRE-FEET				38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET.																									
			a. PERIOD TOTAL		b. AV. ANNUAL		c. PER SQ. MI.-YEAR		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR																			
	Oct 1953		1,392		328		0.317		1,392		328		0.317																			
Jan 1958		1,947		1,166		1.128		3,339		564		0.545																				
Aug 1959		1,065		168		0.162		4,404		360		0.348																				
Dec 1965																																
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PERSQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM																								
		a. PERIOD		b. TOTAL TO DATE		a. AV. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE																				
Oct 1953		7/75.7		523		0.280		1.19		11,900		11,900																				
Jan 1958		7/75.7		1,860		0.481		2.85		18,100		14,900																				
Aug 1959		7/75.7		267		0.307		3.76		5,500		10,500																				
Dec 1965																																

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	110-90	90-80	80-70	70-60	60-50	50-40	40-30	30-20	20-10	10-Cr	Cr-10	10-20
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Oct 1953												
Jan 1958	59	34	9	0	0	0	-1	0	0	0	-3	2
Aug 1959	26	17	12	7	6	3	-1	6	5	6	2	11
Dec 1965	27	28	20	14	5	2	-1	0	-3	0	-3	11

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION															
Oct 1953															
Jan 1958	61	24	15												
Aug 1959	24	17	17	13	6	4	4	5	5	3	1	1			
Dec 1965	6	29	28	19	4	2	3	2	2	3	1	1			

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV. #	INFLOW AC.-FT.
1954	5,142.70	5,125.0	24,760	1963	5,147.4	5,125.0	23,070
1955	5,146.10	5,125.0	25,630	1964	5,148.2	5,125.0	16,590
1956	5,134.80	5,125.0	16,170	1965	5,151.0	5,125.0	36,810
1957	5,148.20	5,125.0	41,620				
1958	5,213.36	5,125.0	136,200				
1959	5,155.60	5,125.0	27,980				
1960	5,148.30	5,125.0	50,240				
1961	5,152.40	5,125.0	58,170				
1962	5,173.20	5,125.0	47,260				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
5,250	3,925	173,747	5,150	217	1,010			
5,240	3,307	137,602	5,140	7	15			
5,230	2,789	107,129	5,130	0	0			
5,220	2,377	81,335						
5,210	1,907	60,036						
5,200	1,531	42,925						
5,190	1,249	29,052						
5,180	966	17,975						
5,170	691	9,646						
5,160	415	4,074						

47. REMARKS AND REFERENCES

- 1) Storage for sediment retention.
- 2) Runoff Mar 36-Dec 37 and Mar 43-Dec 65.
- 3) 5 ft. contour map to elev. 5,180.
- 4) Precipitation at Jemez Springs, N.M. located near center of drainage area.
- 5) Invert elevation at outlet works.
- 6) Time periods adjusted.
- 7) Assumed weight.

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA

Corps of Engineers
 Southwestern Division
 Albuquerque District, Albuquerque, N.M.
 No. DATE March 1966

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

JEMEZ CANYON DAM

NAME OF RESERVOIR

57-15b

DATA SHEET NO.

DAM	1. OWNER Dept of Army C of E		2. STREAM Jemez River-		3. STATE New Mexico			
	4. SEC. 32 TWP. 14N RANGE 4E		5. NEAREST P.O. Bernalillo, NM		6. COUNTY Sandoval			
	7. LAT. 35° 23' 40" LONG. 108 32 45"		8. TOP OF DAM ELEVATION 5,257.50		9. SPILLWAY CREST ELEV. 5,232			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-Feet	14. GROSS STORAGE, ACRE-Feet	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL	5,232	2,895	73,000	117,213	15 Mar 55 ^{2/}		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NOR-MAL OPER. BEGAN		
	e. IRRIGATION					19 Oct 53		
f. CONSERVATION			44,213/	44,213/				
g. INACTIVE								
17. LENGTH OF RESERVOIR		5	MILES	AV. WIDTH OF RESERVOIR		1.0		
18. TOTAL DRAINAGE AREA		1,034	SQ. MI.	22. MEAN ANNUAL PRECIPITATION (65)		17.23		
19. NET SEDIMENT CONTRIBUTING AREA		1,029	SQ. MI.	23. MEAN ANNUAL RUNOFF		0.71		
20. LENGTH		48	MILES	24. MEAN ANNUAL RUNOFF (32)		38,910 3/		
21. MAX. ELEV.		11,250		25. ANNUAL TEMP. MEAN		51		
				RANGE				
SURVEY DATA	25. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA, ACRES	32. CAPACITY, ACRE-Feet	33. C/I. RATIO, AC.-FT. PER AC.-FT.
	Oct 1953	--	--	Contour	10 CI	2,895	117,213	3.01
	Aug 1959	5.92	5.92	Range	12R 4/	2,880	113,874	2.93
	Dec 1965	6.33	12.25	Range & Cor	12R - 5CI	2,891	112,809	2.90
	Jan 1975	9.08	21.33	Contour	5 CI	2,877	106,100	2.73
	25. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-Feet			36. WATER INFL. TO DATE, AC.-FT.	
		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE		
	Oct 1953							
	Aug 1959	17.06	5/	46,009	106,309	272,374	46,009	272,374
	Dec 1965	16.08		37,266	55,249	235,892	41,491	508,266
Jan 1975	15.73		42,842	122,895	389,009	42,066	897,275	
25. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, ACRE-Feet			38. TOTAL SED. DEPOSITS TO DATE, ACRE-Feet				
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR		
Oct 1953								
Aug 1959	3,339	564	.548	3,339	564	0.548		
Dec 1965	1,965	168	.0163	4,404	360	0.350		
Jan 1975	6,709	739	.718	11,113	521	0.506		
25. DATE OF SURVEY	39. AV. DRY WGT., LBS. PER CU. FT.	40. SED. DEP., TONS PER SQ. MI.-YR		41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM		
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANN	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
Oct 1953								
Aug 1959	75.7*	1,368	903	0.481	2.35	19,100	14,900	
Dec 1965	75.7*	270	377	0.307	3.76	5,500	10,500	
Jan 1975	75.7*	1,180	834	0.444	9.48	20,900	15,000	

UNASSUMED

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	110-90	90-80	80-70	70-60	60-50	50-40	40-30	30-20	20-10	10-CR	CR-10	10-20
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Oct 1953												
Aug 1959	26	17	12	7	6	3	-1	6	5	6	2	11
Dec 1965	27	28	20	14	5	2	-1	0	-3	0	-3	11
Jan 1975	12	19	20	16	9	6	5	2	1	4	-2	8

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
Oct 1953															
Aug 1959	24	17	17	13	6	4	4	5	5	3	1	1			
Dec 1965	6	29	28	19	4	2	3	2	2	3	1	1			
Jan 1975	33	15	13	12	6	6	3	1	4	5	1	1			

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.
1954	5,142.70	5,125.0 ^{6/}	24,760	1966	5,151.00	5,125.0	29,896
1955	5,146.10	5,125.0	25,630	1967	5,152.40	5,125.0	31,327
1956	5,134.80	5,125.0	16,170	1968	5,154.00	5,125.0	51,916
1957	5,148.20	5,125.0	41,620	1969	5,154.05	5,125.0	59,307
1958	5,213.36	5,125.0	136,200	1970	5,156.59	5,125.0	43,531
1959	5,155.60	5,125.0	27,980	1971	5,150.80	5,125.0	14,260
1960	5,148.30	5,125.0	50,240	1972	5,153.98	5,125.0	16,900
1961	5,152.40	5,125.0	58,170	1973	5,189.20	5,125.0	128,960
1962	5,173.20	5,125.0	47,260	1974	5,150.32	5,125.0	16,060
1963	5,147.40	5,125.0	23,070				
1964	5,148.20	5,125.0	16,590				
1965	5,151.00	5,125.0	39,829				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
5,250	3,925	167,100	5,180	918	13,710			
5,240	3,307	130,900	5,170	593	6,185			
5,230	2,750	100,500	5,160	284	1,985			
5,220	2,315	75,170	5,150	73	179			
5,210	1,884	54,110	5,140	3	6			
5,200	1,467	37,420	5,136	0	0			
5,190	1,182	24,190						

47. REMARKS AND REFERENCES

- 1/ Sediment Reserve
- 2/ Storage for Sediment Retention
- 3/ From USGS WSP for Jemez River below Jemez Canyon Dam
- 4/ Five Foot Contour Map to Elevation 5,180
- 5/ Precipitation at Jemez Springs near Center of Drainage Area
- 6/ Invert elevation

48. AGENCY MAKING SURVEY Corps of Engineers, Southwestern Division
 49. AGENCY SUPPLYING DATA Albuquerque District, Albuquerque, N.M. 50. DATE June 1975

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

JEMEZ CANYON DAM

NAME OF RESERVOIR

57-156

DATA SHEET NO.

DAM	1. OWNER Dept of Army C of E				2. STREAM Jemez River				3. STATE New Mexico						
	4. SEC. 32 TWP. 14N RANGE 4E				5. NEAREST P.O. Bernalillo, NM				6. COUNTY Sandoval						
	7. LAT 35° 23' 40" LONG. 106° 32' 45"				8. TOP OF DAM ELEVATION 5,257.50				9. SPILLWAY CREST ELEV. 5,232						
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-Feet		14. GROSS STORAGE, ACRE-Feet		15. DATE STORAGE BEGAN				
	a. FLOOD CONTROL		5,232		2,895		73,000		117,213		15 Mar 55 ^{2/}				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY														
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN				
	f. CONSERVATION						44,213 ^{1/}		44,213 ^{1/}						
	g. INACTIVE										19 Oct 53				
17. LENGTH OF RESERVOIR				5 MILES				AV. WIDTH OF RESERVOIR 1.0 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 1,034				SQ. MI.				22. MEAN ANNUAL PRECIPITATION (65) 17.23 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 1,029				SQ. MI.				23. MEAN ANNUAL RUNOFF 0.71 INCHES						
	20. LENGTH 48		MILES		AV. WIDTH 22		MILES		24. MEAN ANNUAL RUNOFF (32) 38,910 ^{3/} AC.-FT.						
	21. MAX. ELEV. 11,250				MIN. ELEV. 5,122				25. ANNUAL TEMP. MEAN 51 RANGE						
	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		29. TYPE OF SURVEY		30. NO. OF RANGES OR CONTOUR INT.		31. SURFACE AREA, ACRES		32. CAPACITY, ACRE-Feet		33. C/I. RATIO, AC.-FT. PER AC.-FT.
Oct 1953		---				Contour		10 CI		2,895		117,213		3.01	
Jan 1958		6/ 4.25		4.25		Range		12 Ranges		2,895		115,821		112	
Aug 1959		6/ 1.67		5.92		Range		4/ 12 Ranges		2,880		113,874		110	
Dec 1965		6.33		12.25		Range & Con		12R - 5CI		2,891		112,809		2.90	
Jan 1975		9.08		21.33		Contour		5 CI		2,877		106,100		2.73	
26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-Feet				36. WATER INFL. TO DATE, AC.-FT.							
				a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE			
Oct 1953															
Jan 1958		14.95 ^{5/}		33,421		74,149		142,039		33,421		142,039			
Aug 1959		17.06		78,045		106,309		130,335		46,009		272,374			
Dec 1965		16.08		37,266		55,249		235,892		41,491		508,266			
Jan 1975		15.73		42,842		122,895		389,009		42,066		897,275			
26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-Feet				38. TOTAL SED. DEPOSITS TO DATE, ACRE-Feet									
		a. PERIOD TOTAL		b. AV. ANNUAL		c. PER SQ. MI.-YEAR		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR			
Oct 1953															
Jan 1958		1,392		328		0.317		1,392		328		0.317			
Aug 1959		1,947		1,166		1.128		3,339		564		0.545			
Dec 1965		1,065		168		.0163		4,404		360		0.350			
Jan 1975		6,709		739		.718		11,113		521		0.506			
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI.-YR.		41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM							
				a. PERIOD		b. TOTAL TO DATE		a. AV. ANN.		b. TOT. TODAY		a. PERIOD		b. TOT. TODAY	
Oct 1953															
Jan 1958		75.7 *		523		523		0.280		1.19		11,900		11,900	
Aug 1959		75.7 *		1,860		899		0.481		2.85		18,100		14,900	
Dec 1965		75.7 *		270		577		0.307		3.76		5,500		10,500	
Jan 1975		75.7 *		1,180		834		0.444		9.48		20,900		15,000	

* ASSUMED

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	110-90	90-80	80-70	70-60	60-50	50-40	40-30	30-20	20-10	10-Cr	Cr-10	10-20
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Oct 1953												
Jan 1958	59	34	9	0	0	0	-1	0	0	0	-3	2
Aug 1959	26	17	12	7	6	3	-1	6	5	6	2	11
Dec 1965	27	28	20	14	5	2	-1	0	-3	0	-3	11
Jan 1975	12	19	20	16	9	6	5	2	1	4	-2	8

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION															
Oct 1953															
Jan 1958	61	24	15												
Aug 1959	24	17	17	13	6	4	4	5	5	3	1	1			
Dec 1965	6	29	28	19	4	2	3	2	2	3	1	1			
Jan 1975	33	15	13	12	6	6	3	1	4	5	1	1			

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.
1954	5,142.70	5,125.0	24,760	1966	5,151.00	5,125.0	29,896
1955	5,146.10	5,125.0	25,630	1967	5,152.40	5,125.0	31,327
1956	5,134.80	5,125.0	16,170	1968	5,154.00	5,125.0	51,916
1957	5,148.20	5,125.0	41,620	1969	5,154.05	5,125.0	59,307
1958	5,213.36	5,125.0	136,200	1970	5,156.59	5,125.0	43,531
1959	5,155.60	5,125.0	27,980	1971	5,150.80	5,125.0	14,260
1960	5,148.30	5,125.0	50,240	1972	5,153.98	5,125.0	16,900
1961	5,152.40	5,125.0	58,170	1973	5,189.20	5,125.0	128,960
1962	5,173.20	5,125.0	47,260	1974	5,150.32	5,125.0	16,060
1963	5,147.40	5,125.0	23,070				
1964	5,148.20	5,125.0	16,590				
1965	5,151.00	5,125.0	39,829				

46. (1975) ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
5,250	3,925	167,100	5,180	918	13,710			
5,240	3,307	130,900	5,170	593	6,185			
5,230	2,750	100,500	5,160	284	1,985			
5,220	2,315	75,170	5,150	73	179			
5,210	1,884	54,110	5,140	3	6			
5,200	1,467	37,420	5,136	0	0			
5,190	1,182	24,190						

47. REMARKS AND REFERENCES

- 1/ Sediment Reserve
- 2/ Storage for Sediment Retention
- 3/ From USGS WSP for Jemez River below Jemez Canyon Dam
- 4/ Five Foot Contour Map to Elevation 5,180
- 5/ Precipitation at Jemez Springs near Center of Drainage Area
- 6/ Invert elevation

48. AGENCY MAKING SURVEY Corps of Engineers, Southwestern Division
 49. AGENCY SUPPLYING DATA Albuquerque District, Albuquerque, NM DATE June 1975