

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Big Reedy FRS #9

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

16-35

DATA SHEET NO.

Operated & Maintained by Ready Quadrangle

DAM	1. Reedy Big Reedy W/S Cons. Dist.		2. STREAM West Fork		3. STATE Kentucky			
	4. SEC. USC & GS Grid. Coord.		5. NEAREST P.O. Reedyville		6. COUNTY Edmonson			
	7. LAT. 1,796,000 - 355,000		8. TOP OF DAM ELEVATION 486.4		9. SPILLWAY CREST ELEV. 482.9			
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	482.9	121.4	840	998			
	b. MULTIPLE USE							
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY							
	e. IRRIGATION							
	f. CONSERVATION					6/22/64		
WATERSHED	g. INACTIVE		473.1	45.99	158	158		
	17. LENGTH OF RESERVOIR 0.42 MILES			AV. WIDTH OF RESERVOIR 0.45 MILES				
	18. TOTAL DRAINAGE AREA 4,326 ac.		6.76	22. MEAN ANNUAL PRECIPITATION 46.74 (6 yr.)		INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 6.69		SQ. MI.		23. MEAN ANNUAL RUNOFF 16.59 (5 yr.)		INCHES	
	20. LENGTH 3.40 MILES		AV. WIDTH 1.99 MILES		24. MEAN ANNUAL RUNOFF 5981		AC. FT.	
21. MAX. ELEV. 833		MIN. ELEV. 466		25. ANNUAL TEMP: MEAN 57.4 (Jan-July) RANGE -26° - 108°				
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/I RATIO, AC. FT. PER AC. FT.
	6/22/64					46.0 121.4	158.05 998	0.154
	4/14/70	5.8	5.8	Range (D)	6 ranges	44.79	137.00 ^{1/2} 976.95 ^{2/3}	0.150
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW, ACRE-Feet			36. WATER INFL. TO DATE, AC.-Feet.		
	4/14/70	47	a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE	
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, ACRE-Feet			38. TOTAL SED. DEPOSITS TO DATE, ACRE-Feet			
	4/14/70	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI. YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI. YEAR	
	4/14/70	21.05 ^{1/2}	3.63 ^{1/2}	0.54 ^{1/2}	21.05	3.63	0.54	
	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	
	4/14/70	77.58	a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
4/14/70	77.58	912.4	912.4 ^{1/2}	2.3 ^{1/2}	13.32 ^{1/2}			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION													
4/14/70	Seg 1 6.09	Seg 2 32.3	Seg 3 39.66	Seg 4 13.72	Seg 5 5.37	Seg 6 2.86								

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.

46. 1970 ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
Original Capacity 1964			1970 Capacity					
473.1	45.99	158.05	473.1	44.79	137.00			

47. REMARKS AND REFERENCES

1/ Sediment Pool - below elev. 473.1
 2/ Total Reservoir - below elev. 482.9

Physiographic Region - Western Coal Fields - IRA-120
 Sandstones and shales of the Lower Pennsylvanian (Tradewater Formation) Land Use: From Work Plan Data

Cropland	10%	Land Use 1970
Pasture	10%	Cropland, 8%
Forest	60%	Pasture, 25%
Idle	18%	Forest, 65%
Other	2%	Other, 2%

48. AGENCY MAKING SURVEY River Basin-Watershed Planning Staff, Lexington, Ky.
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE Oct. 29, 1970