TENNESSEE VALLEY AUTHORITY



FINANCIAL STATEMENTS

FOR THE

FISCAL YEAR ENDED SEPTEMBER 30, 1979

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Mr. W. F. Willis, General Manager Tennessee Valley Authority Knoxville, Tennessee

#### Dear Mr. Willis:

The financial statements of the Tennessee Valley Authority for the years ended September 30, 1979 and 1978, are presented on the following pages. They are accompanied by a report thereon by Coopers & Lybrand, independent certified public accountants, and by related schedules of details for the year ended September 30, 1979, as shown in the index below.

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Very truly yours,

Willard R. Stinson

Comptroller

### TENNESSEE VALLEY AUTHORITY

ASSETS

	Power p	rogram	All pr	ograms
	1979	1978	1979	1978
		(Thou	sands)	
PROPERTY, PLANT, AND EQUIPMENT,	1 1	(III)		
substantially all at original cost				
Completed plant; schedule A	•			·
Multipurpose dams; note 1	\$ 496,488	\$ 495,407	\$ 1,120,750	\$ 1,092,715 '
Single-purpose dams	346,052	72,869	346,052	72,869
Steam production plants	2,634,519		2,634,519	2,534,622
Nuclear production plants	888,350		888,350	885,991
Other electric plant	2,071,199		2,071,199	1,876,347
Other plant	-,-,-,-,-		198,303	181,715
£	6,436,608	5,865,236	7,259,173	6,644,259
Less accumulated depreciation and			1,-,,,	-,,-,-
depletion; note 2	1,897,514	1,746,118	2,071,427	1,909,207
Completed plant, net	4,539,094	4,119,118	5,187,746	4,735,052
Construction and investigations in	•			
progress; schedule B and note 3	5,832,368.	4,586,550	6,063,741	4,798,879
Nuclear fuel; schedule B	631,102		631,102	485,863
Less accumulated amortization				., -
and allowance for disposal				
of spent fuel; schedule B	. 1			
and note 2	183,033	92,817	183,033	92,817
Nuclear fuel, net	448,069	393,046	448,069	393,046
.Total property, plant, and	1 1			
equipment	10,819,531	9,098,714	11,699,556	9,926,977
CURRENT ASSETS				
Cash	1,902	38,249	114,930	128,432
Accounts and loans receivable	421,573	328,034	434,272	336,522
Inventories, principally at	1	i i i , ,		550,744
average cost	610,991	359,502	628,637	374,087
			- 320,331	
Total current assets	1,034,466	725,785	1,177,839	839,041
•	<del></del>			
DARRADAD AMARA				
DEFERRED CHARGES	1	B.		•
Unamortized debt issue and	0 700		0 500	0.000
reacquisition expense; note 2	8,788	9,338	8,788	9,338_
Mine and mill development costs; schedule B and note 2	206 225	76 1.00	300 335	76 haa
schedule b and note 2	196,115	76,488	196,115	<u>76,488</u>
Total deferred charges	201 002	85 806	001, 002	05 006
room deferred charkes	204,903	85,826	204,903	<u>85,826</u>
Total assets	\$12,058,900	\$9,910,325	\$13,082,298	\$10,851,844
N W				

Notes 1 through 10 following the exhibits are an integral part of the financial statements. \*Deduct

### LIABILITIES AND CAPITALIZATION

_	Power program		All pr	ograms		
	1979	1978	1979	1978		
		(Thous	sands)			
PROPRIETARY CAPITAL		•	'			
Appropriation investment; note 4 Congressional appropriations Transfers of property from other	\$ 1,384,043	\$1,383,721	\$ 3,310,446	\$ 3,155,915		
. Federal agencies	23,644 1,407,687	23,470 1,407,191	57,352 3,367,798	56,587 3,212,502		
Less repayments to General Fund of the U.S. Treasury; note 5 Appropriation investment	495,059 912,628	475,059 932,132	536,769 2,831,029	516,769 <sup>°</sup> 2,695,733		
Retained earnings reinvested in the power program; exhibit II Accumulated net expense of nonpower programs; exhibit III	1,295,631	1,227,762	1,295,631	1,227,762		
			949,294*	<u>867,375</u> *		
Total proprietary capital	2,208,259	2,159,894	3,177,366	3,056,120		
LONG-TERM DEBT						
Principal; note 6	6,625,000	5,425,000	6,625,000	5,425,000		
Less unamortized discount; note 2	6,050	6,465	6,050	6,465		
Total long-term debt	6,618,950	5,418,535	6,618,950	5,418,535		
CURRENT LIABILITIES Short-term debt; note 6						
U.S. Treasury	150,000	150,000	150,000	150,000		
Federal Financing Bank	1,925,000	1,520,000	1,925,000	1,520,000		
Long-term debt due within one year Short-term debt	<u>300,000</u> 2,375,000	$\frac{100,000}{1,770,000}$	2,375,000	$\frac{100,000}{1,770,000}$		
Accounts payable	668,396	404,454	702,248	430,358		
Employees' accrued leave	22,461	20,928	37,705	35,888		
Payrolls accrued	26,322	22,095	31,517	26,524		
Interest accrued	139,512	114,419	139,512	114,419		
_ Total current liabilities	3,231,691	2,331,896	3,285,982	2,377,189		
COMMITMENTS; note 3						
Total liabilities and capitalization	\$12,058,900	\$9,910,325	\$13,082,298	\$10,851,844		
•						

# TENNESSEE VALLEY AUTHORITY POWER PROGRAM NET INCOME AND RETAINED EARNINGS

FOR THE YEARS ENDED SEPTEMBER 30, 1979 AND 1978

	19'	1979		3	
	kWh	Amount	kWh	Amount	
		(Thous	sands)		
OPERATING REVENUES					
Sales of electric energy	75,936,357	\$1,810,848	77,875,252	\$1,540,126	
Municipalities and cooperatives Federal agencies	16,169,981	368,741	16,722,347	305,805	
Industries	24,912,785	598,180	22,877,485	455,957	
Electric utilities	171,642	4,722	175,486	3,897	
- Interdivisional	497,510	12,813 163,000*	295,320	6,523	
Revenue credit due customers; note 9 Total sales of electric energy	117,688,275	2,632,304	117,945,890	2,312,308	
Rents		23,483		37,023	
Discounts and penalties		108		100	
Other miscellaneous revenues Total operating revenues		994 2,656,889		703 2,350,134	
<del>-</del>		2,000,000		2,370,23,	
OPERATING EXPENSES; schedule C Production					
Fuel		1,108,674		1,035,056	
Other		485,332		504,868	
Transmission		31,875		27,491 706	
Customer accounts Demonstration of power use		767 12,114		4,261	
Administrative and general		93,556		81,559	
Payments in lieu of taxes		100,024		79,872	
Social security taxes		14,633		11,727	
Provision for depreciation Total operating expenses		160,573 2,007,548		150,447 1,895,987	
				454,147	
Operating income		649,341		474,141	
OTHER INCOME AND DEDUCTIONS		740		428	
Interest income Other, net		7,959*		127*	
Total other income and deductions		7,219*		301	
Income before interest charges	ŧ	642,122	•	454,448	
		0723222			
INTEREST CHARGES Interest on long-term debt		478,986		419,434	
Other interest expense		179,153		66,377	
Allowance for borrowed funds used (construction		1	1	a) 0 a/m	
and nuclear fuel); note 2		153,749*		248,967*	
Amortization of long-term debt discount and expense; note 2		995		1,036	
Net interest charges		505,385		237,880	
NET INCOME		136,737		216,568	
Return on appropriation investment; note 5		68,868		61,716	
Increase in retained earnings reinvested		67,869		154,852	
Retained earnings reinvested at beginning of period	od	1,227,762		1,072,910	
·					
Retained earnings reinvested at end of per	10d	\$1,295,631		\$1,227,762	

Notes 1 through 10 following the exhibits are an integral part of the financial statements.

<sup>\*</sup>Deduct

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## TENNESSEE VALLEY AUTHORITY NONPOWER PROGRAMS

NET EXPENSE AND ACCUMULATED NET EXPENSE

FOR THE YEARS ENDED SEPTEMBER 30, 1979 AND 1978

	<u>1979</u> (Thous	<u>1978</u>
REGIONAL RESOURCES DEVELOPMENT Navigation operations	\$ 7,709	\$ 7,306
System flood control operations	6,016	5,670
Recreation development	4,747	4,531
Tributary area development	3,209	2,925
Regional water quality management	1,472 1,459	1,290 1,136
Fisheries and wildlife resources development Preliminary surveys and engineering	343	306
Environmental education	493	374
Valley agricultural development	2,720	2,014
Forest resources development	2,247	2,334
Strip mine reclamation demonstrations	2,041	3,677
Interagency health services demonstrations	606 7 <b>7</b> 5	324 726
Regional economic studies	750	793
Townlift community improvement Human resources development	764	679
Minerals resources projects	319	327
Special opportunities counties program	484	1,250
Minority economic development	677	111
Local flood damage prevention operations	8,869	7,014
Environmental quality projects	<u> </u>	<u>480</u>
Net expense of regional resources development	46,206	43,267
FERTILIZER DEVELOPMENT; note 2 ·		0
Research and development	11,065	10,893
Fertilizer introduction	0 727	2,845
Fertilizer industry demonstrations	2,737 1,126	1,155
Farm test demonstrations outside the Valley	3,863	4,000
Net expense of fertilizer introduction		
Developmental production  Cost of products distributed	28,716	26,663
General expenses		
Loss on retirements of manufacturing plant and		
equipment, net	417	139
Gain on sale of phosphate reserves, net	71*	107*
Administrative and general	226	582
Other	890	430
Total general expenses	1,462	1,044
Total production expense	30,178	27,707
Less transfers and sales of products	21,687	20,978
Transfers to other TVA programs, at market prices	151	335
Direct sales Total transfers and sales	21,838	21,313
Net expense of developmental production	8,340	6,394
-		. —
Net expense of fertilizer development	23,268	21,287
NATIONAL ENERGY DEMONSTRATIONS	4,698	609
-Land between the lakes operations	5,547	5,509
VALLEY MAPPING AND REMOTE SENSING	1,012	771
OTHER EXPENSE, NET	1,188	972
NET EXPENSE; schedule D	81,919	72,415
Accumulated net expense at beginning of period	867,375	794,960
Accumulated net expense at end of period	\$949,294	\$867,375

Notes 1 through 10 following the exhibits are an integral part of the financial statements.

## TENNESSEE VALLEY AUTHORITY CHANGES IN FINANCIAL POSITION

FOR THE YEARS ENDED SEPTEMBER 30, 1979 AND 1978

		ver program	All programs				
	1979	1978	1979	1978			
		(Tho	usands)				
SOURCE OF FUNDS		(	1				
Program sources	: :						
Net power income; exhibit II	\$ 136,	737 \$ 216,568	\$ 136,737				
Items not requiring funds; note a	67,		* 67,707	<u>58,821</u> *			
Funds from power operations	204,		204,444	157,747:			
Sale of power facilities		669 2,171	2,669	2,171			
Funds from power program; note b	207,	113 159,918	207,113	159,918			
Net expense of nonpower programs; exhibit III	: 1 1 1 1	1 1 1 1					
Add items not requiring funds; note a			81,919				
Funds used in nonpower operations			9,106	8,232			
Sale of nonpower facilities			72,813				
Funds used in nonpower programs			362 72,451	342 63,841*			
F0			12,471	03,041^			
Debt sources							
Long-term bonds							
Issues	1,500,0	000 800,000	1,500,000	800,000			
Redemptions	100,0	ooo*	100,000	•			
Short-term notes							
Issues	7,795,0			4,280,000			
Redemptions Total debt sources	7,390,0	000* <u>3,740,000</u>		3,740,000×			
local dest sources	1,805,0	1,340,000	1,805,000	1,340,000			
Other sources							
Congressional appropriations	:	500 320	154,531	138,510			
Property transfers		174261	765	528			
Total other sources		674 581	155,296	139,038			
•							
Total source of funds	\$2,012,	787 \$1,500,499	\$2,094,958	\$1,575,115			
	-						
DEGENERAL AD THE							
DISPOSITION OF FUNDS							
Expended for plant and equipment, excluding allowance for borrowed funds used	4						
Less:	\$1,797,	320 \$1,460,951	\$1,860,624	\$1,527,033			
Depreciation charged to construction and							
clearing accounts	) <sub>1</sub> 1	456 3,620	6 001	c n//			
Cost of removing retired facilities and	**,*	456 3,620	6,874	5,766			
salvage from retained materials	2,1	487 329	2 221	200			
	1,790,		2,321 1,851,429	1,520,965			
Payments to U.S. Treasury; note 5	,1703.	311 15-71,002	<u> </u>	1,720,909			
Return on appropriation investment	68,8	368 61,716	68,868	61,716			
Repayment of appropriation investment	20,0		20,000	20,014			
	88,8	81,716	88,868	81,730			
Unamortized debt discount and expense and other	: 1 1 1	— ————————————————————————————————————					
deferred charges			_	-			
Mine and mill development cost	119,6	527 39,395	119,627	39,395			
Debt issue expense		30 16	30	16			
Changes in working capital (increase or decrease*)	119,6	39,411	119,657	39,411			
Cash Cash	200	aliera oc oosy		10:			
. Accounts receivable	36,3 93,5						
Inventories	251,l	109,453 189 13,495*	97,750	110,140			
	308,6		254,550 338,798	12,194* 82,465			
Less other current liabilities (excluding	300,0	75,031	330,190	04,405			
short-term debt)	294,7	795 146,667	303,794	149,456			
	13,8	385 77,630×	35,004	66,991*			
m. 1.1. 31 1414		-					
Total disposition of funds	\$2,012,7	787 \$1,500,499	\$2,094,958	\$1,575,115			
*Deduct							

#### NOTES:

### a. Items not requiring funds:

	Pow 1979	7er 1978	Nonp 1979	ower 1978
•		(Thous	ands)	
Provision for depreciation Provision for depletion Provision for depreciation of	\$160,573 603	\$150,447 333	\$8,760 -	\$8,200 -
mining equipment Amortization of nuclear fuel Net loss on retirements and disposals of property, plant, and equipment Amortization of long-term debt	3,618 47,708	38,203	-	-
	7,959	127	346	32
discount and expense	995	1,036	-	-
Allowance for borrowed funds used (construction and nuclear fuel)	153,749*	248,967*		
	\$ 67,707	\$ 58,821*	<u>\$9,106</u>	\$8,232

### b. Net power proceeds (see note 6) may be derived as follows:

	Year ended S	September 30 1978
	(Thous	sands)
Funds from power program Add back interest charges	\$207,113 658,139	\$159,918 485,811
Net power proceeds	\$865,252	\$645,729

Notes 1 through 10 following the exhibits are an integral part of the financial statements.

\*Deduct

1. Allocation of cost of multipurpose projects—Section 14 of the TVA Act requires TVA's Board of Directors to allocate the cost of completed multipurpose projects, subject to the approval of the President of the United States. The cost of facilities installed exclusively for a single purpose is assigned directly to that purpose; the cost of multiple-use facilities is allocated among the various purposes served.

The total investment of \$1,120,750,000 in completed multipurpose dams at September 30, 1979, is classified as follows:

		Investment				- [	- [	!	- 1	- !	-
	Direct	Multiple-use (Thousands)	_	Total		i	i I	1	Ì	!	1
Power	\$319,339	\$177,149	\$	496,488	1 1						
Navigation	153,088	137,281	ì	290,369		:	:	:	:	:	;
Flood control	61,595	159,373		220,968		:	:	:	:	:	
Recreation	1,324	66,073	1	67,397		1	1	1	1	1	!
Tributary area development	19	45,509	: !	45,528		I	I	I	I	1	i
Total	\$535,365	\$585,385	<u>\$1</u>	,120,750		ļ	ļ	ļ	ļ	!	į

2. Summary of significant accounting policies--Power accounts are kept in accordance with the uniform system prescribed by the Federal Energy Regulatory Commission.

Plant additions and retirements—Additions to plant are recorded at cost, which includes material, labor, overhead, and allowance for funds used which is applicable to major generating facilities. The costs of generation during preliminary operations prior to commercial acceptance including amortization of nuclear fuel less credit for the fair value of energy generated are also included in the recorded costs of steam and nuclear generating plants. Except for chemical plant, plant retirements (including original cost and removal cost less salvage) are charged against appropriate accumulated depreciation accounts. Because of the experimental nature of fertilizer development, losses on early retirement of chemical plant are included in current year operations.

Depreciation and depletion--Straight-line depreciation is provided for substantially on a composite basis. Rates of depreciation including decommissioning costs of nuclear units, are derived from engineering studies of useful life and are reviewed each year. Depletion of coal land and land rights and phosphate land and mineral rights is provided on a unit of production basis.

Allowance for funds used--The practice of capitalizing an allowance for funds used during construction and during the fabrication of nuclear fuels in the power program was modified in the fourth quarter of fiscal year 1979 (retroactive to October 1, 1978) in accordance with the TVA Board of Directors criteria for establishing wholesale power rates. The effect of this change was to make the allowance applicable only to the construction of major generating facilities and limit the amount to the sum of depreciation and other current period noncash charges less the amount of the repayment of the appropriation investment as prescribed in section 15d of the TVA Act. The method used provides for the calculation each month of the interest on the most recent debt issues that are equivalent to the average balance of construction work in progress for major generating facilities subject to the limitation described. The limitation reduced net income and the amount of allowance for funds used during construction that would have been otherwise determined for fiscal year 1979 by \$224,955,000 and reduced the equivalent average capitalization rate for fiscal year 1979 from 8.62 percent to 3.95 percent which compares with 7.57 percent for fiscal year 1978.

Repairs and maintenance--The cost of current repairs and minor replacements is charged to appropriate operating expense and clearing accounts, and the cost of renewals and betterments is capitalized.

Nuclear fuel amortization—The amortization of nuclear fuel is provided on a unit of production basis. Rates are established to amortize the costs over the useful life.

Mine and mill development costs--Deferred mine and mill development costs are assigned to coal inventory and nuclear fuel on a unit of production basis determined in relation to estimated ore reserves.

Operating revenues and energy costs--Revenues from the sale of electric energy are recorded only when billed. An adjustment addendum providing for monthly billing charges to reflect increases or decreases in fuel and purchased power costs was terminated effective in January 1979. These costs are now included for consideration in the quarterly rate reviews.

Borrowing expenses--Issue and reacquisition expenses and discounts on power borrowings from the public are amortized on a straight-line basis over the term of the related securities. Issue expenses on power borrowings from the Federal Financing Bank are amortized over a five-year period except that amounts under \$6,000 are expensed as incurred.

Research and development--Research and development costs are expensed as incurred (approximately \$40,735,000 in 1979 and \$31,868,000 in 1978) except for those costs which relate to specific power program capital projects.

Sales of fertilizer--Sales of fertilizer materials are not made on a commercial basis, but are made to organizations collaborating in an experimental and educational program aimed at improving the manufacture, distribution, and use of fertilizers.

3. <u>Construction projects, commitments, and rental expenses</u>--The construction budgets for fiscal year 1980 are \$2,000,587,000 for power projects and \$71,067,000 for multipurpose and nonpower projects. Substantial commitments have been incurred for these projects.

The total rentals charged to power operating expenses and other operating clearing accounts for the years ending September 30, 1979 and 1978, amounted to approximately \$20,128,350 and \$20,484,000, respectively. At September 30, 1979, the aggregate minimum gross rental commitments of TVA under all noncancelable leases for the periods shown are as follows: 1980, \$18,246,000; 1981, \$15,393,000; 1982, \$13,955,000; 1983, \$12,967,000; 1984, \$12,554,000; and thereafter, \$44,256,000.

Minimum gross rental commitments include rentals paid under agreements with the City of Memphis, Tennessee, which provide that (1) TVA sells to the City all the power and energy requirements of its electric distribution system, and (2) the City leases to TVA the Thomas H. Allen steam-electric generating plant with an installed capacity of 990,000 kilowatts. Each agreement is for a term of 20 years, beginning January 1, 1965. The lease agreement provides for annual rental payments of \$6,900,000 and grants TVA an option to buy the plant for \$2,000,000 at the end of the lease term.

4. Appropriation investment—Changes in appropriation investment during the years ended September 30,1979 and 1978, were as follows:

•	Power p	rogram	All pr	
	1979	(Thous	<u>1979</u> ands)	1978
Congressional appropriations, net Transfers of property from	\$ 322	\$ 419*	\$ 154,531	\$ .138,510
other Federal agencies	<u>174</u> 496	261 158*	765 155,296	528 139,038
Less repayments to General Fund of the U.S. Treasury Increase or decrease* for the	_20,000	20,000	20,000	20,014
period	19,504*	20,158*	135,296	119,024
Balance, beginning of period	932,132	952,290	2,695,733	2,576,709
Balance, end of period	\$912,628	\$932,132	\$2,831,029	\$2,695,733
Who do an				

\*Deduct

An appropriation of \$148,677,000 was made by Public Law No. 96-69, approved September 25, 1979, for the fiscal year beginning October 1, 1979.

5. Payments to the U.S. Treasury-Section 15d of the TVA Act requires the payment from net power proceeds of a return on the net appropriation investment in power facilities plus repayments of such investment, beginning with fiscal year 1961. The amount of return payable during each year is based on the appropriation investment as of the beginning of that year and the computed average interest rate payable by the U.S. Treasury on its total marketable public obligations as of the same date. The repayment schedule calls for payment of not less than \$10 million for each of the first five years (1961-1965), \$15 million for each of the next five years (1966-1970), and \$20 million for each year thereafter until a total of \$1 billion shall have been repaid. The payments required by Section 15d may be deferred under certain circumstances for not more than two years.

Required payments have been made as follows:

Α	Return	Repayment (Thousands)	Total
Total to September 30, 1978	\$ 964,904	\$290,000	\$1,254,904
Year ended September 30, 1979	68,868	20,000	88,868
,	\$1,033,772	\$310,000	\$1,343,772

For fiscal year 1980 the required payments will be \$78,413,000 as a return on the appropriation investment at the computed average interest rate of 8.592 percent and \$20,000,000 as a repayment, a total of \$98,413,000.

In addition to the payments from net power proceeds, \$132 of nonpower proceeds was paid to the U.S. Treasury in fiscal year 1979 under the provisions of Section 26 of the TVA Act. This brought the total payments from nonpower proceeds to approximately \$41,710,000.

Prior to 1961, under then existing legislation, TVA paid to the Treasury \$185,059,000 of power proceeds. In addition to the repayments indicated in Exhibit I, \$65,072,000 of bonds sold to the Treasury and Reconstruction Finance Corporation in fiscal years 1939-1941 have been fully repaid from power proceeds. Section 26 of the TVA Act provides for annual payments to the Treasury of any power or nonpower proceeds not needed for the operation of dams and reservoirs, the conduct of the power program, and the manufacture and distribution of fertilizers.

6. Borrowing authority--Section 15d of the TVA Act authorizes TVA to issue bonds, notes, and other evidences of indebtedness up to a total of \$15 billion (effective October 31, 1979, increased to \$30 billion) outstanding at any one time to assist in financing its power program. Debt service on these obligations, which is payable solely from TVA's net power proceeds, has precedence over the payment to the U.S. Treasury described in note 5. Issues outstanding on September 30, 1979, consist of the following

	(Ti	nousands)
Long-term debt	<u>.</u>	:
4.40% 1960 Series A, due November 15, 1985	\$	50,000
4-5/8% 1961 Series A, due July 1, 1986		50,000
4-1/2% 1962 Series A, due February 1, 1987		45,000
5.70% 1967 Series A, due May 15, 1992		70,000
6-3/8% 1967 Series B, due November 1, 1992		60,000
8-1/4% 1969 Series B, due October 15, 1994		100,000
7.30% 1971 Series B, due October 1, 1996		150,000
7% 1972 Series A, due January 1, 1997		150,000
7.35% 1972 Series B, due May 1, 1997		150,000
7.35% 1972 Series C, due July 1, 1997		150,000
7.40% 1972 Series D, due October 1, 1997		150,000
7.35% 1973 Series A, due January 1, 1998		100,000
7.35% 1973 Series B, due April 1, 1998		150,000
7-3/4% 1973 Series C, due July 1, 1998		150,000
7.70% 1973 Series D, due October 1, 1998		100,000
8.05% 1974 Series A, due January 1, 1999		100,000
8.05% 1975 Series A, due January 31, 1990 (FFB)		200,000
8.70% 1975 Series B, due March 31, 2000 (FFB)		100,000
8.35% 1975 Series C, due May 31, 1988 (FFB)		200,000
8.47% 1975 Series D, due July 31, 2000 (FFB)		200,000
8.485% 1975 Series E, due October 31, 2000 (FFB)		300,000
8.175% 1976 Series A, due February 28, 2001 (FFB)		300,000
7.97% 1976 Series B, due November 30, 2001 (FFB)		400,000
7.625% 1976 Series C, due January 31, 2002 (FFB)		200,000
7.975% 1977 Series A, due February 28, 2002 (FFB)		300,000
7.935% 1977 Series B, due May 31, 2002 (FFB)		400,000
8% 1977 Series C, due October 31, 2002 (FFB)		400,000
8.375% 1978 Series A, due January 31, 2003 (FFB)		400,000
9.296% 1979 Series A, due February 28, 1989 (FFB)		500,000
9.155% 1979 Series B, due May 31, 1987 (FFB)		500,000
9.195% 1979 Series C, due August 31, 2004 (FFB)		500,000
Total long-term debt	· · · · · · · · · · · · · · · · · · ·	,625,000
	· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Short-term debt		
U.S. Treasury		150,000
Federal Financing Bank (FFB)	1	,925,000
Long-term debt due within one year		300,000
Total short-term debt	2	,375,000
		,000,000
	: <b>***</b>	, , , , , , , , , , , , , , , , ,

During fiscal years 1979 and 1978, the maximum amount of short-term borrowings outstanding, exclusive of long-term debt due within one year, was \$2,166,000,000 and \$1,612,000,000, respectively, and the average amount (and weighted average interest rates) of such borrowings was approximately \$1,920,000,000 (9.3 percent) and \$1,001,000,000 (6.6 percent), respectively.

An additional \$400 million bond issue, 10.545 percent 1979 Series D, due October 31, 2004, was sold to the Federal Financing Bank in October 1979.

- 7. Retirement plan--TVA has a contributory retirement plan which covers substantially all of its salaried employees. The cost of currently accruing benefits is funded currently. The cost of the plan to TVA was \$48,823,000 in 1979 and \$38,060,000 in 1978, including amortization of unfunded prior service costs over the average future careers of active members. The actuarially computed pension fund assets as of September 30, 1978, the latest actuarial valuation date, exceeded the actuarially computed value of vested benefits of the plan.
  - Litigation--Six citizens' suits were filed in six different district courts under the Clean Air Act, alleging that the sulfur dioxide emissions from 10 of TVA's coal-fired steam plants and the particulate emissions from 7 coal-fired plants violate the emission standards set by the states. Plaintiffs include the States of Kentucky and Alabama and the United States of America at the request of the Environmental Protection Agency. Five of the cases were consolidated in the United States District Court for the Middle District of Tennessee; the other was filed in the United States District Court for the Northern District of Alabama. Plaintiffs asked that the courts order TVA to comply with the applicable emission standards as expeditiously as possible. In addition, the State of Alabama specifically asked the court to restrict operation of Widows Creek and Colbert Steam Plants until final compliance is achieved and assess a State penalty of \$10,000 per day per violation. A proposed settlement agreement was approved in December 1978 and presented to the courts for approval. This proposed agreement specifies compliance schedules to control both sulfur dioxide and particulate emissions at TVA steam plants and provides for stipulated daily penalties if TVA does not meet these schedules. The agreement waives any TVA liability for penalties and fines for past violations. The reference in the agreement as originally drafted to a Cumberland Steam Plant scrubber project and activities in lieu of penalties has been deleted, based on new air quality information. The Alabama district court has approved the agreement. While the agreement as submitted to the courts is in full satisfaction of all State or Federal civil penalties, TVA is still subject by law to the mandatory noncompliance penalties under section 120 of the Clean Air Act Amendments of 1977 which will be levied separate and apart from this action on all sources not in compliance after July 1, 1979. Several of TVA's steam plants were not in compliance on that date. The amount of these mandatory noncompliance penalties is based on the economic value of noncompliance to the owner, less any amounts actually expended by the source toward achieving compliance. The amount of these payments cannot be determined until EPA issues guidelines and regulations. It is TVA's position that under the act no penalties are due, based in part on the act's exemption from penalties for sources under consent decrees.

A residential electric consumer of the Memphis Light, Gas, and Water Division (Memphis) filed a class action suit against it and its governing Board in the Chancery Court of Shelby County, Tennessee, on June 9, 1978. Plaintiff claimed that the operation of the fuel cost and purchased power automatic adjustment formula then contained in the TVA resale rate schedule applied to him and his class violates the Fourteenth Amendment's due process clause and the Tennessee statutes which require rate changes by Memphis to receive prior approval by the Memphis City Council. In addition to declaratory and injunctive relief, plaintiff seeks a judgment for over \$110 million allegedly collected by Memphis under the automatic adjustment formula since 1974. The case was removed to Federal court, TVA was jointed as a party, and plaintiff amended his complaint to charge TVA with a violation of the Fifth Amendment's due process clause on the same facts. The court granted judgment on the pleadings for TVA and Memphis, and the case is now pending an appeal before the United States Court of Appeals for the Sixth Circuit. In TVA's opinion the sjudgment should be affirmed.

The injunction against the Tellico project, which was involved in Tennessee Valley Authority v. Hill in the United States Supreme Court was formally dissolved by the district court following congressional passage and the President's approval of an act exempting the project from "the provisions of 16 U.S.C. chapter 35 or any other law."

Following the October 27, 1978, oral opinion by the court in TVA's suit against Westinghouse Electric Corporation, which found that Westinghouse had not carried its burden of proof on its defense under UCC § 2-615 or the uranium fuel contracts' force majeure clauses, the case was settled by agreement. The agreement included the withdrawal of TVA's appeal to the Fourth Circuit, discussed last year, and resolution of all of both parties' outstanding claims under the fuel contracts and other related contracts. Under the terms of the settlement TVA received cash, uranium properties, improvements in fuel fabrication contracts, and equipment and services having a value to TVA of about \$130 million. Westinghouse also will deliver to TVA 560,000 pounds of uranium at the \$8.24 price specified in the Watts Bar nuclear fuel contract.

On November 18, 1977, TVA filed antitrust suits against 10 foreign uranium producers and 3 domestic firms. The complaints were filed in U.S. District Courts in Chattanooga, Denver, and New York City, and alleged unlawful agreements among the defendants to fix uranium prices and allocate world uranium markets, which resulted in damages to TVA in an amount which cannot yet be determined. The cases were consolidated in Chicago for pretrial purposes by the Judicial Panel on Multidistrict Litigation. The consolidated proceeding is being coordinated with the Westinghouse v. Rio Algom Ltd., et al. antitrust litigation currently pending in Chicago. Discovery is now underway. Defaults have been entered by the clerk against certain of the foreign defendants who did not appear, including Rio Algom Ltd. (Rio). Rio has sued TVA in Canada for \$2.2 billion for alleged breach of the same contract which is involved in TVA's suit against Rio, and which TVA has asked the court to find void. In TVA's opinion, there is little likelihood of a recovery by Rio.

In a suit brought by the Attorney General of Alabama, the United States District Court for the Northern District of Alabama has ruled that Section 8(a) of the TVA Act requires TVA to maintain its "headquarters" in the immediate vicinity of Muscle Shoals, Alabama. TVA has appealed the decision, and the court has stayed, pending the appeal, an injunction which requires TVA to relocate its "headquarters" from Knoxville, Tennessee, to Muscle Shoals. TVA expects the United States Court of Appeals for the Fifth Circuit to reverse the district court's order.

- 9. Revenue credit due customers--On August 24, 1979, the TVA Board of Directors determined that there would be an excess of power revenues in the amount of \$163 million for fiscal year 1979 and that such excess should be credited to customers in calculating monthly power bills during the first six months of fiscal year 1980.
- 10. <u>Subsequent event</u>--Effective October 31, 1979, TVA sold and leased back all of its nuclear fuel for approximately \$490 million. Rental payments will be charged to operations in amounts equal to the cost of the fuel burned plus finance charges.

#### COOPERS & LYBRAND

CERTIFIED PUBLIC ACCOUNTANTS

A MEMBER FIRM OF
COOPERS & LYBRAND (INTERNATIONAL)

To the Board of Directors of Tennessee Valley Authority:

We have examined the financial statements of TENNESSEE VALLEY AUTHORITY at September 30, 1979 and 1978 and for the years then ended which are indexed on page 1 herein. Our examinations were made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, Exhibits I, II, III, and IV present fairly:

- (1) the financial position of the Authority at September 30, 1979 and 1978, and the results of operations and changes in financial position of its several programs for the years then ended; and
- (2) the financial position of the power program of the Authority at September 30, 1979 and 1978, and the results of operations and changes in financial position of that program for the years then ended,

all in conformity with generally accepted accounting principles consistently applied during the period except for the change, with which we concur, in the method of determining the allowance for funds used during construction as described in Note 2 to the financial statements.

The supplemental information appearing in Schedules A to F, inclusive, which has been subjected to audit procedures applied in the examination of the basic financial statements, is in our opinion, fairly stated in all material respects in relation to the basic financial statements taken as a whole.

Coopen & Lyhand

New York, November 21, 1979.

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### TENNESSEE VALLEY AUTHORITY COMPLETED PLANT SEPTEMBER 30, 1979

,	Assets	Accumulated depreciation and depletion
Power		
Multipurpose dams System allocation; page 23 Project allocations; page 25 Single-purpose dams; page 27 Steam production plants; page 27 Nuclear production plants; page 28 Other electric plant; page 28	\$ 436,340,498 60,147,524 346,051,924 2,634,519,007 888,350,467 2,071,198,827	\$ 186,981,467 11,190,543 33,232,976 1,009,713,335 108,484,283 547,911,472
Total power	6,436,608,247	1,897,514,076
Navigation  Multipurpose dams  System allocation; page 23  Project allocations; page 25  Single-purpose navigation plant; page 29	229,545,402 60,823,882 7,096,629	61,273,054 7,228,513 936,186
Total navigation	297,465,913	69,437,753
Flood control  Multipurpose dams  System allocation; page 23  Project allocations; page 25  Single-purpose flood control plant; page 29	180,075,911 40,892,170 2,065,257	41,746,994 1,394,954 190,213
Total flood control	223,033,338	43,332,161
Recreation and environmental education Multipurpose dams Project allocations; page 25 Land Between The Lakes; page 29 Other recreation plant; page 29 Total recreation and environmental education	67,396,625 60,424,002 3,139,404 130,960,031	1,976,787 5,048,965 399,129 7,424,881
Tributary area development  Multipurpose dams  Project allocations; page 25	45,527,747	1,430,492
Chemical; page 29	68,666,200	25,124,082
.General; page 29	56,911,964	27,163,851
Total	<u>\$7,259,173,440</u>	\$2,071,427,296
Total completed plant Multipurpose dams	d 0hc 0/2 022	¢ 000 001 515
System allocation Project allocations	\$ 845,961,811 274,787,948 1,120,749,759	\$ 290,001,515 23,221,289 313,222,804
Single-purpose dams Steam production plants Nuclear production plants Other electric plant Other plant	346,051,924 2,634,519,007 888,350,467 2,071,198,827 198,303,456	33,232,976 1,009,713,335 108,484,283 547,911,472 58,862,426
Total .	\$7,259,173,440	<u>\$2,071,427,296</u>

	Kentucky	Pickwick	Wilson	Wheeler	
Multiple-use facilities	Memouchy	TICKWICK	HIISOII	MIGGIGI	
Reservoir land and landrights	\$ 14,841,845			\$ 4,333,245	
Highway, railroad, and other relocations and removals Reservoir clearing	27,434,261 6,915,483	1,915,648 1,509,836	136,355	2,113,711	
Dam structure, excluding power intake section	27,555,500	6,006,369	951,436	3,613,759 8,384,889	-
Roadways	276,832	33,933	2,116,796	901,410	
Village and reservoir facilities	1,968,195	193,824	184,130	1,323,824	_
Other structures and improvements Total	1,616,232 80,608,348	683,012 13,343,158	$\frac{1,015,559}{17,689,001}$	21,117,845	
Deduct direct flood control investment, contra below	16,532,000	788,000	11,009,001	-	
Add nonoverflow sections to replace other sections,					
contra below Power intake section	2,890,000	550,000	3,900,000	920,000	
Lock section	210,000	380,000	125,000	830,000	
Total multiple-use facilities allocated below;					
note 1, page 10	67,176,348	13,485,158	21,714,001	22,147,845	
•					
Navigation facilities					
Lock and appurtenances	10,082,252	6,010,874	28,683,675	21,727,975	
Channel improvements	=	- O,020,01.4	20,000,017		
Deduct nonoverflow section to replace lock section,		-0-			
contra above  Total before allocation of multiple-use facilities	210,000 9,872,252	380,000 5,630,874	125,000 28,558,675	200,000	1
Add allocation of total multiple-use facilities shown	<u> </u>	2,030,014	20,550,675	21,527,975	
above; note 1, page 10					
Total navigation facilities after allocation					
Flood control facilities					
Reservoir land and landrights		<u>.</u>	: : : <u>-</u>	_	
Add direct flood control investment, contra above	16,532,000	788,000	<u> </u>		
Total before allocation of multiple-use facilities	16,532,000	788,000			
Add allocation of total multiple-use facilities shown above; note 1, page 10					
Total flood control facilities after allocation					
Power facilities					
Powerhouse, including intake section	10,773,027	9,444,110	21,360,779	18,018,614	
Turbines and generators Accessory electric equipment	10,087,131	11,957,581	27,931,263	21,036,050	2
Other power plant equipment	1,023,384	1,642,785		2,527,691	
Total	22,846,909	23,465,663	2,009,920 56,411,724	465,883 42,048,238	
Deduct nonoverflow section to replace power intake		,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,0 .0,2.00	
section; contra above  Total before allocation of multiple-use facilities	2,890,000	550,000	3,900,000	830,000	
Add allocation of total multiple-use facilities shown	19,956,909	22,915,663	52,511,724	41,218,238	
above; note 1, page 10					
Total power facilities after allocation					
Totai	\$130 507 500	the sector	\$100 g01: line	محمد المواد القام	
	\$113,537,509	\$42,819,695	\$102,784,400	\$84,894,058	-
Accumulated depreciation	\$ 20 Ealt 020	dos obo est	A 1.1. 0m2 0a =	44a mes1	
	\$ 30,514,013	\$<1,242,5(4	<u>\$ 44,856,810</u>	\$29,773,224	

Assets

a	<b>0</b> 1.1	Walth Barr	Fort
\$ 3,711,612 3,867,303 2,436,598 5,146,272 366,029 1,071,413 809,194 17,408,421	\$ 4,490,643 2,704,136 971,651 8,242,856 165,767 332,718 985,103 17,892,874 1,107,000	\$ 5,012,990 4,977,205 953,785 3,963,969 70,280 188,159 976,126 16,142,514 1,952,000	\$ 4,123,106 5,111,630 560,341 8,816,480 259,733 108,953 765,560 19,745,803 786,000
780,000 440,000	1,470,000 	614,000 565,000	1,610,000 940,000
18,628,421	19,045,874	15,369,514	21,509,803
17,518,721 -	4,735,831	3,161,200	5,709,247
17,078,721	790,000 3,945,831	<u>565,000</u> 2,596,200	940,000
<del>-</del>	1,107,000 : 1,107,000	1,952,000 1,952,000	786,000 786,000
	6,297,853 7,614,505 1,498,998 412,168 15,823,524 1,470,000 14,353,524		
	\$38,452,229 \$15,682,198		

		•	
<u>Norris</u>	. Hiwassee	Cherokee	Chatuge
\$ 6,800,700 4,308,463 1,561,458 10,847,235 266,691 86,395 538,530 24,409,472 5,506,000	\$ 1,678,482 1,191,433 394,601 9,376,953 246,236 151,406 245,428 13,284,539 1,356,000	\$ 4,498,971 5,519,525 575,359 13,205,027 31,728 172,098 928,050 24,930,758 3,467,000	\$ 964,833 2,693,192 194,329 3,088,682 38,234 2,499 197,081 7,178,850 537,000
-		-	-
18,903,472	11,928,539	21,463,758	6,641,850
		22,105,170	0,012,000
_	_	-	<b>6</b> 0
-	-	-	-
		-	
1,318,284 5,506,000 6,824,284	1,356,000 1,356,000	_3,467,000 _3,467,000	537,000 537,000
2,221,666 2,122,440	2,574,106 5,316,089	3,177,346 5,845,681	511,634 1,020,530
486,468 246,452	670,393 434,703	673,569 500,287	176,293 135,546
	8,995,291	10,196,883	1,844,003
5,077,026	8,995,291	10,196,883	1,844,003
\$30,804,782	\$22,279,830	\$35,127,641	\$9,022,853
\$ 9,678,506	\$ 9,555,612	\$11,274.290	\$2,293.413
<u> </u>			/

Assets								
Nottely	Fontana	South Holston	Watauga	Douglas	Boone	Channel improvements	Total system allocation dams	Accumulated depreciation
\$ 413,407 1,344,854	\$ 1,625,350 9,017,018	\$ 2,424,639 3,745,948	\$ 4,598,632 6,369,316	\$ 6,787,030 8,107,311	\$ 2,118,605 2,724,632	\$ -	\$ 72,109,053 93,281,941	\$ -
232,107	1,033,436	892,864	385,808	574,900 16,912,546	575,423 6,585,430	-	24,333,174 217,886,365	99 ako 202
3,205,913 197,851	45,779,373 606,244	17,411,137 211,319	10,757,436	82,469	24,164	-	6,237,309	88,140,107 2,952,527
2,822 95,765	51,497 3,266,985	50,413 896,095	120,852 889,440	114,133 997,192	7 <sup>4</sup> ,116 389,375		6,197,447 	2,841,262 8,058,799
5,492,719 623,000	61,379,903	25,632,415 4,950,000	23,463,077 3,045,000	33,575,581 7,057,∞0	12,491,745 110,000	-	435,787,023 55,439,000	11,399,333
_	-	_	•	_	1,160,000	_	13,804,000	5,833,951
<del>_</del>			-				3,650,000	1,468,369
4,869,719	53,756,903	20,682,415	20,418,077	26,518,581	13,541,745		\$397,802,023	\$ 97,895,682
•								
-	-	=	=	-	-	28,159,081	\$ 97,629,775 28,159,081	\$ 30,339,248 5,970,341
_							3,650,000	1,468,369
						28,159,081	122,138,856	34,841,220
							107,406,546	26,431,834
				1			229,545,402	61,273,054
							2 220 201	
623,000	<u>7,623,000</u>	4,950,000	3,045,000	7,057,000	110,000		1,318,284 55,439,000	11,399,333
623,000	7,623,000	4,950,000	3,045,000	7,057,000	110,000		56,757,284	11,399,333
							123,318,627	30,347,661
							180,075,911	41,746,994
607,075	5,672,728	2,779,412	4,922,424 2,370,493	4,734,010	4,742,967	-	114,705,521	45,893,994
_1,233,030 185,800	6,704,930 1,141,937	1,791,814 369,336	2,370,493 764,185	5,887,166 689,623	4,961,615 907,486	-	138,209,410 20,794,209	82,696,125 16,900,826
131,513 2,157,418	537,454 14,057,049	259,427 5,199,989	374,036 8,431,138	511,224 11,822,023	592,822 11,204,890	<del></del>	9,358,508 283,067,648	6,208,286 151,699,231
2,171,410	14,071,049	J,±33,503	0,401,100	11,022,023	1,160,000		13,804,000	5,833,951
2,157,418	14,057,049	5,199,989	8,431,138	11,822,023	10,044,890		269,263,648	145,865,280
		-					167,076,850	41,116,187
							436,340,498	186,981,467
\$7,650,137	\$75,436,952	\$30,832,404	\$31,894,215	\$45,397,604	\$23,696,635	\$28,159,081	<u>\$845,961,811</u>	
\$2,419,745	\$25,442,595	\$ 8,418,799	\$ 8,156,451	\$13,460,001	<u>\$ 7,664,497</u>	\$ 5,970,341		\$290,001,515

•			
Multiple-use facilities		Melton Hill	Nickajack.
Reservoir land and landrights; note a		\$ 3,407,626	4 2 APE 100
Highway, railroad, and other relocations and removals		2,667,366	\$ 3,285,422
Reservoir clearing		904,168	9,106, <u>9</u> 70
Dam structure, excluding power intake section		2,825,723	736,361
Roadways		419,618	9,998,808 499,660
Village and reservoir facilities		144,882	361,837 <sup>.</sup>
Other structures and improvements		1,189,957	1,075,966
Total		11,559,340	
Deduct direct power investment, contra below; note b		2.138,725	25,065,024
Add nonoverflow sections to replace other sections, cont	no helow	2.130,129	~
Power intake section	I & DEIOW	1,120,000	700.000
Lock section			700,000
Add sluiceway to replace power intake and water conductor	n contre helow	480,000	950,000
The Table of the Paris point the date which contact to	i, contra below		
Total multiple-use facilities, allocated below; not	e 1, page 10	\$11,020,615	\$26,715,024
Navigation facilities		•	,
Lock and appurtenances		\$ 9,315,484	\$21,361,960
Channel improvements		¥ //,0=//,	γ-11,5011,700
Deduct nonoverflow section to replace lock section, cont	ra above	480,000	950,000
Total before allocation of multiple-use facilities		8,835,484	20,411,960
Add allocation of total multiple-use facilities shown about	ove: note 1. page 10	7,163,400	22,711,319
Total navigation facilities after allocation		15,998,884	43,123,279
Flood control facilities		-27,77,03,001	43,343,619
Reservoir land and landrights			_
Structures and improvements			
Dam structures and waterways		_ :	_
Reservoir facilities		_	_
Channel improvements			_
Total before allocation of multiple-use facilities			
Add allocation of total multiple-use facilities shown about	ove: note 1 nage 10		405,492
Total flood control facilities after allocation	ove, more in page to		405,492
Tributary area development facilities			407,492
Intake for municipal water supply			_
Add allocation of total multiple-use facilities shown about	ove: note 1 nage 10	- 1 - 1 - 1 - 1 - 1 - 1	
Less reimbursement by Beech River Watershed Development	Authority		i i i <u>-</u>
Total tributary area development facilities after a	llocation		<del></del>
and reimbursements		· _	
Recreation facilities		<del></del>	
Public-use areas		_ :	_
Add allocation of total multiple-use facilities shown about	ove: note 1. page 10		
Total recreation facilities after allocation			
Power facilities			
Land and landrights		:	_
Powerhouse, including intake section		6,275,274	11,978,693
Turbines and generators		6,715,326	12,817,217
Accessory electrical equipment		753,983	1,300,569
Other power plant equipment		560,281	768,664
Total		14,304,864	26,865,143
Add direct power investment, contra above; note b		2,138,725	20,007,145
Deduct nonoverflow section to replace power intake section	on, contra above	1,120,000	700,000
Deduct sluiceway to replace power intake and water conduction	tor, contra above		L
Total before allocation of multiple-use facilities		15,323,589	26,165,143
Add allocation of total multiple-use facilities shown about	ve; note 1, page 10	3,857,215	3,598,214
Total power facilities after allocation		19,180,804	29,763,357
- · ·		-/,0,007	<u>-251035371</u>
Total		\$35,179,688	\$73,292,128
		1277-1774-1	<del>1.0,-/-,</del>
Accumulated depreciation		\$ 6,350,507	\$10,406,525

### Notes:

- a. Nickajack includes land and landrights in the amount of \$1,308,037 acquired for retired Hales Bar project which is allocated on system basis.
- b. Estimated investment for increased reservoir elevation to serve a single purpose.

		Assets	S				
	Tims Ford	Bear Creek	Duck River	Beech River	Channel improvements	Total project allocations dams	Accumulated depreciation
٠.	\$ 8,131,142 12,363,625 3,057,250 14,167,953	\$12,490,463 7,393,196 4,492,770 35,503,223	\$ 5,561,380 11,140,706 512,541 18,519,264	\$2,089,256 222,931 953,369 2,943,715	\$ - - -	\$ 34,965,289 42,894,794 10,656,459 83,958,686	\$ - - 5,136,567
_	352,345 83,127 1,192,083 39,347,525	1,687,095 1,091,005 804,571 63,462,323	468,442 171,103 36,373,436	80,600 221,958 66,595 6,578,424		3,039,318 2,371,251 <u>4,500,275</u> 182,386,072	309,800 386,245 <u>696,929</u> 6,529,541
	- · · · -	-	-	-	-	2,138,725 1,820,000	153,734 251,882
	4,273,000					1,430,000 4,273,000	183,242 405,799
	\$43,620,525	\$63,462,323	\$36,373,436	\$6,578,424	<u> </u>	<u>\$187,770,347</u>	<u>\$ 7,216,730</u>
	\$ <u>-</u>	\$ <u>-</u>	\$ <u>-</u>	\$ <u>-</u>	\$ 1,701,719	\$ 30,677,444 1,701,719	\$ 4,690,751 419,990
			-	-	1,701,719	1,430,000 30,949,163 29,874,719 60,823,882	183,242 4,927,499 2,301,014 7,228,513
	-	-	-	386,655 10,022 114,479	- - -	386,655 10,022 114,479	3,245 16,434
	6,979,284 6,979,284	1,937,758 1,937,758 24,115,683 26,053,441	2,909,875 2,909,875	1,839 2,386,478 2,899,473 1,644,605 4,544,078		1,839 <u>4,324,236</u> <u>4,837,231</u> <u>36,054,939</u> <u>40,892,170</u>	262 <u>420,461</u> 440,402 954,552 1,394,954
	9,596,515	8,250,102	22,915,265	19,444 4,933,818 187,397		19,444 45,695,700 187,397	2,770 1,427,722
	9,596,515	8,250,102	22,915,265	4,765,865		45,527,747	1,430,492
	272,755 24,427,494 24,700,249	31,096,538 31,096,538	1,051,541 10,548,297 11,599,838			1,324,296 66,072,329 67,396,625	135,528 1,841,259 1,976,787
•.	3,477,696 784,716	- - -	= = = = = = = = = = = = = = = = = = = =	-	- - -	607,860 25,501,374 23,010,239 2,839,268	3,543,564 6,110,856 848,622
•	741,453 12,859,132	<del></del>	<del></del>	<u>-</u> - -	<del>-</del>	2,070,398 54,029,139 2,138,725 1,820,000	499,265 11,002,307 153,734 251,882
	4,273,000 8,586,132 2,617,231 11,203,363	-	-			4,273,000 50,074,864 10,072,660 60,147,524	405,799 10,498,360 692,183 11,190,543
	\$52,479,411	\$65,400,081	\$37,424,978	\$9,309,943	\$1,701,719	\$274,787,948	
	\$ 2,945,495	\$ 1,358,398	\$ 881,412	\$ 858,962	\$ 419,990		\$23,221,289

# TENNESSEE VALLEY AUTHORITY SINGLE-PURPOSE POWER DAMS AND STEAM PRODUCTION PLANTS SEPTEMBER 30, 1979

	Raccoon Mountain	Apalachia	Fort Patrick Henry	Great Falls Ocoee No. 3
Single-purpose power dams				
Assets	•			
Reservoir land and landrights, including relocations	\$ 2,006,374	\$ 775,306	\$ 1,207,743	\$ 702,114 \$ 237,226
Reservoir clearing	2,225,080	72,152	126,855	216,056 28,702
Structures and improvements	63,740,793	1,310,940	1,885,563	322,627 674,043
Dams and waterways	119,093,988	17,149,031	4,565,200	2,386,338 5,591,966
Turbines and generators	59,117,113	2,400,395	2,979,116	740,446 969,195
Accessory electric equipment	18,357,079	509,779	542,014	391,502 233,558
Other power plant equipment	4,310,825	292,040	267,360	139,374 177,836
Roads, railroads, and bridges	4,193,051	371,809	20,462	22,431 377,029
Village and reservoir facilities	48,318	6,430	17,043	5,877,571 -
Total single-purpose power dams	\$273,092,621	\$ 22,887,882	\$ 11,611,356	\$ 10,798,459 \$ 8,289,555
Accumulated depreciation	\$ 3,690,952	\$ 9,820,471	\$ 4,316,398	\$ 3,681,846 \$ 3,723;117

•					
Steam production plants	Cumberland	<u>Paradise</u>	Widows Creek	Shawnee	Kingston
Assets					
Abbets					
Land and landrights	\$ 2,082,196	\$ 716,336	\$ 195,354	\$ 504,507	\$ 1,415,450
Structures and improvements	80,199,273	59,408,428	44,338,641	48,532,347	37,104,870
Boiler plant equipment	265,958,746	201,612,789	193,630,644	124,279,497	155,951,173
Turbogenerators	64,776,395	94,234,236	68,816,189	65,038,002	64,851,670
Accessory electric equipment	25,493,825	18,715,589	23,404,032	14,101,792	15,041,394
Other power plant equipment	7,640,356	6,061,096	5,720,954	4,059,496	4,977,732
Total steam production plants	\$446,150,791	\$380,748,474	\$336,105,814	\$256,515,641	\$279,342,289
Accumulated depreciation	\$ 72,441,085	\$120,962,416	\$129,726,400	\$144,825,917	\$129,080,604

9	Ocoee No. 2	Blue Ridge	Ocoee No. 1	Wilbur	Total
\$	20,252	\$ 877,086	\$ 232,659 \$	33,717	\$ 6,092,477
•	-	125,636	29,686	2,610	2,826,777
	201,595	259,337	243,337	401,997	69,040,232
	1,811,606	3,069,257	7,991,181	961,666	162,620,233
	424,726	511,980	309,145	683,523	68,135,639
	158,266	207,064	198,681	163,810	20,761,753
	101,090	• 61,263	97,∞1	82,501	5,529,290
	13,387	46,894	6,550	1,912	5,053,525
		32,526	10,110	-	5,991,998
<b>\$</b>	2,730,922	\$ 5,191,043	\$ 9,118,350 \$	2,331,736	\$ 346,051,924
\$	2,625,247	\$ 2,628,180	\$ 1,539,600 \$	1,207,165	<u>\$ 33,232,976</u>

	<u>Johnsonville</u>	Colbert	Gallatin	Bull Run	John Sevier	Watts Bar	Thomas H. Allen (note 3, page 11)	Total
	\$ 108,467	\$ 279,029	\$ 690,832	\$ 2,082,768	\$ 1,491,572	\$ 11,996	<b>\$</b> -	\$ 9,578,507
<b>.</b>	38,338,589	30,288,780	26,863,106	27,834,662	22,549,459	4,090,947	3,178,540	422,727,642
•-	91,620,834	93,423,271	103,944,397	108,878,658	55,281,781	10,593,488	16,549,552	1,421,724,830
	57,665,623	45,498,592	46,890,254	26,288,298	30,477,357	6,274,222	11,127,076	581,937,914
	12,568,354	10,795,687	9,337,026	9,738,149	7,062,280	1,665,317	966,451	148,889,896
	4,391,063	4,078,770	3,448,068	3,570,437	2,937,365	789,035	1,985,846	49,660,218
			\$191,173,683	\$178,392,972	\$119,799,814	\$23,425,005	\$33,807,465	\$2,634,519,007
	\$110,744,754	\$ 88,615,223	\$ 74,211,951	\$ 46,786,235	\$ 65,280,238	\$19,647,664	\$ 7,390,848	\$1,009,713,335

# TENNESSEE VALLEY AUTHORITY NUCLEAR PRODUCTION AND OTHER ELECTRIC PLANT SEPTEMBER 30, 1979

			Assets	Accumulated depreciation and depletion
Nuclear production plants		-		
Browns Ferry				
Land and landrights		\$	887,951	
Structures and improvements	1 1	,	188,622,774	
Reactor plant equipment	1 1	1	315,787,321	
Turbogenerators			261,795,012	
Accessory electric equipment	1 1	I	104,172,425	i i
Other power plant equipment	' '	_	17,084,984	1 E#
Total nuclear production plants	1 1	\$	888,350,467	\$108,484,283
Other electric plant				
Other production plant		_		
Gallatin gas turbines		\$	30,511,008	•
Thomas H. Allen gas turbines	' '	'	51,637,862	
Colbert gas turbines			41,097,771	
Johnsonville gas turbines		_	86,604,993	
			209,851,634	\$ 41,252,649
System control center		_	29,283,846	3,155,814
Total other production plant		_	239,135,480	44,408,463
Transmission plant, including substations				
serving wholesale and industrial customers				
Land and landrights			69,349,183	
Structures and improvements	' '	'	148,633,291	
Station equipment			636,481,547	
Towers and fixtures			237,929,822	
Poles and fixtures			70,156,717	
Overhead conductors and devices Roads and trails	1 1	1	308,879,758	
Total transmission plant	! !	_	262,829 1,471,693,147	416,417,595
<del>-</del>	' '	<u>'-</u>	13-71-15070 31-71	410,41,577
General plant			lio lioz esc	11. 001 F0F
Communication equipment			40,497,576	
Coal land and landrights and mining equipment Uranium land and landrights	16	1	27,018,453 8,476,552	
Office and transportation equipment			59,883,553	15,621,780
Other, including land and landrights	1 1	i		17,021,100
of \$704,382			42,898,935	10,543,938
Total general plant		_	178,775,069	46,084,223
		_		<del></del>
Plant leased to others, including land and landrights of \$2,325,093	1 1	1	91,763,435	22 201 122
		_	71,103,437	33,391,132
Plant held for future use		I		
Uranium land and landrights	1 1	I	74,573,435	l i
Coal land and landrights	•	1	1 764,087	
Other, including land and landrights	1 1	I	70.703.000	
of \$4,880,840		-	10,731,820	h 006 Olim
Total plant held for future use	1 1	_	86,069,342	4,986,847
Other physical property, including land	1 1	1		
and landrights of \$1,139,142	; ;		3,762,354	2,623,212
Total other electric plant	: :	\$	2,071,198,827	\$547,911,472
		=		

### TENNESSEE VALLEY AUTHORITY OTHER PLANT SEPTEMBER 30, 1979

	Assets	Accumulated depreciation and depletion
Single-purpose flood control plant, including land of \$726,828	\$ 2,065,257	\$ 190,213
Single-purpose navigation plant	7,096,629	936,186
Recreation and environmental education plant Land Between The Lakes plant,		
including land of \$33,910,067	60,424,002	5,048,965
Other recreation plant, including land of \$173,719	3,139,404	399,129
Total recreation and environmental		
education plant	63,563,406	5,448,094
Chemical plant Land	0-0	
Phosphate land and mineral rights	1,531,858	
Other land and landrights Total land	2,122 1,533,980	196,379
Buildings and equipment		
Manufacturing plant and equipment		
Phosphate facilities	la los oso	
Nitrogen facilities	<u>41,401,870</u> 41,401,870	12,118,925
General service facilities	<u> +1,401,010</u>	12,110,927
" Utility systems	15,624,685	
Other general facilities	10,105,665	
•	25,730,350	12,808,778
Total buildings and equipment	67,132,220	24,927,703
Total chemical plant	68,666,200	25,124,082
General plant	065 650	
Land and landrights	865,650 1,607,919	
Land improvements	20,149,188	
- Structures General utility systems	1,465,307	
Data processing equipment	848,851	
Engineering equipment	666,840	
Photographic and reproduction equipment	1,436,456	
Medical equipment	1,544,318	
Office furniture and equipment	4,361,138 17,378,406	
Transportation equipment	589,041	
Alterations to leased plant Environmental quality equipment	1,824,285	
Miscellaneous equipment	4,174,565	
Total general plant	56,911,964	27,163,851
Total other plant	<u>\$198,303,456</u>	\$58,862,426

TENNESSEE VALLEY AUTHORITY

CONSTRUCTION AND INVESTIGATIONS IN PROGRESS,

NUCLEAR FUEL, AND MINE AND MILL DEVELOPMENT COSTS

SEPTEMBER 30, 1979

4						Power program	All programs
CONCERNICATION AND THERESETEAMIONS IN TRACEINESS					:	,	
CONSTRUCTION AND INVESTIGATIONS IN PROGRESS Construction in progress	- 1	'	'	'			
Generating facilities					,		
Sequoyah Nuclear Plant						\$1,241,111,834	\$1,241,111,834
Watts Bar Nuclear Plant						1,121,103,068	1,121,103,068
Bellefonte Nuclear Plant	1 1	1	1	1	;	1,115,013,961	1,115,013,961
Hartsville Nuclear Plant	1	- 1	- 1	11		1,111,107,932	1,111,107,932
Phipps Bend Nuclear Plant	+ +	- !	- 1	!	;	344,760,192	344,760,192
Yellow Creek Nuclear Plant				1		345,330,941	345,330,941
Raccoon Mountain pumped storage project	1, 1	1	- 1	1	;	2,484,566	<u> </u>
Total generating facilities		- 1	- 1	:		5,280,912,494	5,280,912,494
Transmission lines, substations, and other addition	ons to	`					
power facilities						<u>536,106,620</u>	536,106,620
Pickwick new lock							22,470,095
Other navigation facilities	1	i	i				9,214,631
Flood control facilities							9,28 <u>5</u> *
Multipurpose facilities							PR 006 001
Tellico Dam and Reservoir Columbia Dam and Reservoir					:	! ! ! ! ! <b>-</b> :	115,826,201
						<b>-</b> :	47,948,128
Bear Creek water control system Other		'	'	'		705.010	437,090
Total multipurpose facilities				1		725,019 725,019	1,872,507 166,083,926
Chemical plant						[27,019	3,113,368
Recreation and environmental education facilities		1	1	1	:		
Land Between The Lakes							6,207,036
Other recreation facilities	1	1	1	:			1,753,851
Total recreation and environmental education	n fac	:11:1	ties	3 !	;		7,960,887
General plant							
General construction equipment and materials	1		- 1	1			1,762,083
Other additions to general plant	1	- 1	- 1	I	:	3,325,314	24,827,441
Total general plant		-	-	-	i	3,325,314	26,589,524
Total construction in progress		- 1	- 1	İ	!	5,821,069,447	6,052,442,260
Investigations for future power facilities	1 1	- 1	- 1	ı	:	11,298,241	11,298,241
Total construction and investigations in pr	rogres	ss	- 1	-	-	\$5,832,367,688	\$6,063,740,501
NUCLEAR FUEL							
Nuclear fuel in process	1 ,					A la Cac Cal	A 100 CmC Col.
Browns Ferry Seguoyah		•				\$ 43,676,634	
Watts Bar						47,906,277 48,844,290	47,906,277
Bellefonte						112,871,057	48,844,290 112,871,057
Enrichment						47,240,690	47,240,690
Total nuclear fuel in process	1 1	1	1		:	300,538,948	300,538,948
Nuclear fuel in stock						112,118,765	112,118,765
Nuclear fuel in reactor							
Browns Ferry						174,569,513	174,569,513
Spent nuclear fuel in cooling	1			:			
Browns Ferry						43,874,885	43,874,885
Total nuclear fuel	1	1			1	\$ 631,102,111	\$ 631,102,111
						<del></del>	<del></del>
ACCUMULATED AMORTIZATION AND ALLOWANCE							
Accumulated amortizationBrowns Ferry						\$ 140,525,535	\$ 140,525,535
Allowance for disposal of spent nuclear fuel	1	1	-	!	i	42,507,503	42,507,503
Total accumulated amortization and allowand	٠,					\$ 183,033,038	\$ 183,033,038
THE PROPERTY OF THE PROPERTY O	. •					<del></del>	<u> </u>
MINE AND MILL DEVELOPMENT COSTS		- 1	- 1				
Coal mine development and leases		!				\$ 52,028,660	\$ 52,028,660
Uranium mine and mill development and preoperations	1					144,086,025	144,086,025
							111,000,022
Total mine and mill development costs			ļ	ļ			
Total mine and mill development costs		!	!	!	İ	\$ 196,114,685	\$ 196,114,685

### **TENNESSEE VALLEY AUTHORITY DETAILS OF POWER EXPENSE**

FOR THE YEAR ENDED SEPTEMBER 30, 1979

		Provision for	.Total before depreciation	on Operation			
SUMMARY	Total	depreciation	(exhibit II)	Fuel	Other	Maintenance	Other
Production							
Multipurpose dams		_		_			
Direct; page 32	\$ 14,449,263			<b>\$</b> -	\$ 4,865,538		<b>\$</b> -
Multiple-use; schedule E	5,551,190	1,247,296	4,303,894	-	3,415,379	888,515	-
Single-purpose dams and							
pumped storage; page 34	7,144,671	4,788,441	2,356,230	-	1,561,419	794,811	
Cumberland Basin projects; note a	15,901,803		15,901,803		-		15,901,803
Steam plants; page 36	1,367,026,283	72,637,980		1,041,116,668	66,297,059	186,974,576	-
- Nuclear plants; page 38	132,732,513	29,164,868	103,567,645	47,978,968	25,524,816	30,063,861	-
Gas turbine plants; page 38	31,322,322	8,394,075	22,928,247	19,578,115	558,253	2,791,879	
Total generation	1,574,128,045	121,735,192		1,108,673,751	102,222,464	225,594,835	15,901,803
Purchased power	2,062,134	-	2,062,134	-	-	-	2,062,134
<ul> <li>Interchange power received</li> </ul>	122,460,963	-	122,460,963	-	-	-	122,460,963
Interchange power delivered	58,622,438	·	58,622,438	<u>-</u>			<u>58,622,438</u> *
Power purchased and							
interchanged, net	<u>65,900,659</u>		65,900,659				<u>65,900,659</u>
System control and load dispatching	3,284,709	964,942	2,319,767				2,319,767
Other	73,392,474		73,392,474				73,392,474
Total production	1,716,705,887	122,700,134		1,108,673,751	102,222,464	225,594,835	157,514,703
Transmission; page 38	66,718,273	34,843,603	31,874,670	-	17,306,236	14,568,434	-
Customer accounts; page 39	766,939	-	766,939	-	766,939	-	-
Demonstration of power use; page 39	12,114,281	-	12,114,281	-	12,114,281	-	
Payments in lieu of taxes; note b	100,023,956	-	100,023,956	-	-	-	100,023,956
Social security taxes	14,633,509	-	14,633,509	•	-	-	14,633,509
Administrative and general; page 39			_		_		
Direct	96,548,771	3,028,951	93,519,820	•	93,195,018	324,802	-
Multiple-use	36,550		36,550		36,550	<del></del>	
Total operating expense	\$2,007,548,166	\$160,572,688	\$1,846,975,478	\$1,108,673,751	\$225,641,488	\$240,488,071	<u>\$272,172,168</u>

:	kWh generated	Production expense including depreciation	Installed capacity at	Ratio of average gross generation
	less station use	Per kWh	September 30, 1979	to installed
SYSTEM STATISTICS	(thousands)	Total (mills)	(kilowatts)	capacity (percent)
Generation				
Multipurpose dams	_			-•
Direct; page 32	14,517,705	\$ 14,449,263 .995	3,040,150	54.83
Multiple-use; schedule E		5,551,190 .382		-1 0-
Total multipurpose dams	14,517,705	20,000,453 1.377	3,040,150	54.83
Single-purpose dams and pumped storage; page 34	986,791	7,144,671 7.240	1,779,160	22.93
Cumberland Basin projects; note a	3,376,133	15,901,803 4.710	853,000	45.48
Alcoa dams; note c	2,243,328		<u>423,715</u>	60.56
Total hydro generation	21,123,957		6,096,025	47.57
Steam plants; page 36	78,080,953	1,367,026,283 17.508	17,796,085	53.21
Nuclear plants; page 38	19,771,019	132,732,513 6.713	3,456,000	67.13
Gas turbine plants; page 38	<u>545,695</u>	31,322,322 57.399	2,510,000	2.55
Total commercial generation; note d	119,521,624	4	29,858,110	49.46
Purchased power	86,888	2,062,134		
Interchange power received	12,779,018	122,460,963		
System control and load dispatching		3,284,709		
Other; note e	<u>47.095</u> *	73,392,474		
Total system input	132,340,435			
Delivered under Alcoa Agreement	1,856,234*			
Interchange power delivered	<u>9,720,590</u> *	58,622,438*		
Net energy supply	120,763,611	1,716,705,887 14.215		
Shop and internal uses	10,212*			
Transmission and transformation losses	<u>3,065,124</u> *			
Total kWh sales and production expense	117,688,275	\$1,716,705,887 14.587		

#### Notes:

- TVA purchases substantially all of the output of eight hydro plants in the Cumberland River Basin. In accordance with memorandums of understanding with the Corps of Engineers, Department of the Army, the Cumberland Basin projects are operated for optimum production of power in conjunction with TVA's power system, subject to flood control, navigation, and other operating requirements of the Army.
- b. Payments made to states and counties in which power operations are carried out. The basic amount is 5 percent of gross revenues from the sale of power to other than Federal agencies during the preceding year, with the provision of minimum payments under certain circumstances.
- c. Operation of twelve hydro plants of the Aluminum Company of America is coordinated with the operation of TVA's power plants under an arrangement whereby the storage and release of water from the Alcoa plants are carried out by the company under TVA's direction.
- Installed capacity increased 1,549,400 kilowatts during fiscal year 1979. Additions consisted of four 382,500 kilowatt generating units at the Raccoon Mountain Pumped Storage Plant and 19,400 kilowatts from modifications to five generators.
- "kWh generated" included kWh generated, less energy for pumping, during test runs of all four units at the Raccoon Mountain Pumped Storage Plant. The expenses of the generation, less credit for the fair value of energy delivered to the TVA power system, were charged to construction.

<sup>\*</sup>Deduct

### TENNESSEE VALLEY AUTHORITY DETAILS OF POWER EXPENSE FOR THE YEAR ENDED SEPTEMBER 30, 1979

	Total	Kentucky	Pickwick	Wilson	Wheeler	Gunters- ville	Nickajack	Chicka- mauga	
Direct hydraulic production - multipurpose dams									
Operation								-	
Supervision and engineering	\$ 433,824	\$ 34,718	\$ 30,618	\$ 62,985	\$ 51,064	\$ 35,277	\$ 17,893	\$ 24,000	. •
Hydraulic	23,264	-	828	4,001	6,010	2,198	348	9,221	
Electric	2,628,199	157,199	173,092	345,441	255,628	148,635	92,789	146,465	٠.
Miscellaneous	1,780,251	118,080	130,524	290,589	177,660	103,578	47,975	114,176	
Total operation	4,865,538	309,997	335,062	703,016	490,362	289,688	159,005	293,862	
Maintenance		b :							
Supervision and engineering	376,052	34,539	37,092	45,286	30,855	29,756	16,561	20,417	
Structures	356,485	32,263	15,544	52,830	34,863	21,334	7,227	13,379	
Reservoirs, dams, and waterways	123,397	100	: 568	8,276	22,356	5,396	245	730	
Electric plant	2,670,624	63,337	463,505	441,620	205,084	100,686	75,123	162,421	
Miscellaneous plant	554,635	128,650	66,405	99,555	44,984	13,691	10,003	39,563	
Total maintenance	4,081,193	258,889	583,114	647,567	338,142	170,863	109,159	236,510	
. Provision for depreciation	5,502,532	337,291	394,929	922,494	. 689,850	233,263	436,486	256,224	
					•				
Total	\$14,449,263	\$906,177	\$1,313,105	\$2,273,077	\$1,518,354	\$693,814	\$704,650	<u>\$786,596</u>	
									_
kWh generated less station use (thousands)	14,517,705	1,081,740	1,354,248	2,887,551	1,539,620	748,201	712,067	842,290	
Total production expense including depreciation per kWh (mills)	.995	.838	.970	.787	.986	.927	990	.934	,
Installed capacity at September 30, 1979 (kilowatts); note d, page 31	3,040,150	175,∞	220,040	629,840	359,100	115,200	100,350	117,∞0	
Ratio of average gross generation to installed capacity (percent)	54.83			52.46	49.13			•	

Watts Ba	Fort Loudoun	Norris	Hiwassee	Cherokee	Chatuge	Nottely	Fontana	South Holston	Watauga	Douglas	_Boone	Melton Hill	Tims Ford
	¥										•		
	\$ 11,199	\$ 33,177	\$ 26,231	\$ 17,249	\$ 5,025	\$ 5,028	\$ 11,917	\$ 9,043	\$ 8,404	\$ 14,016	\$ 6,744	\$ 6,305	\$ 3,545
65		-	<b>-</b>		-	-	-	-	-	-	-	-	-
<b>-^</b> 197,901		•	69,849		21,466	20,241				118,504	116,694	62,499	57,485
90,083	124,402	48,317	78,345	107,033	15,295	13,504	70,795	29,048	78,394	52,659	35,032	39,466	15,298
308,026	258,367	196,138	174,425	259,071	41,786	38,773	168,407	95,127	216,179	185,179	158,470	108,270	76,328
		-			-								
25,377	21,977	18,354	5,603	14,458	3,385	2,527	16,172	5,815	11,957	11,967	10,001	10,655	3,298
48,632	19,579	5,148	6,264	41,591	3,660	2,894	12,699	2,∞3	5,812	16,451	5,288	3,794	5,230
13,400	4,826	11,302	5,747	11,127	3,104	1,071	13,915	1,838	7,997	9,392	1,372	316	319
199,074	184,778	364,863	33,525	121,748	24,083	9,297	32,686	26,325	61,252	34,971	26,021	12,682	27,543
25,211	17,683	5,464	12,824	10,670	3,962	8,470	11,329	<u>5,913</u>	19,347	16,929	7,755	3,562	2,665
311,694	248,843	405,131	63,963	199,594	38,194	24,259	86,801	41,894	106,365	_89,710	50,437	_31,∞9	39,055
	•	*_								P. m			
249,612	238,206	88,973	164,374	185,000	33,065	_38,923	248,189	87,936	133,160	203,586	179,377	237,403	144,193
	<u> </u>										-177511		
4860 220	67).c 1.26	\$600 olio	Alian 1960	AC).n. CC5	Asso ole	A.o. ona	Amaa	4aa\ aam	4)				
\$009,332	<u>\$745,416</u>	\$090,242	\$402,762	<u> </u>	\$113,045	\$101,955	\$503,397	<u>\$224,957</u>	<u>\$455,704</u>	\$478,475	\$388,284	\$376,680	\$259,576
	•			•	1 #								
ç-													
1,049,736	653,079	547,654	328,677	370,836	36,173	40,605	1,083,639	142,636	162,891	461,508	196,149	209,065	69,340
.828	1.141	1.260	1.225	1.736	3.125	2.511	.465	1.577	2.798	1.037	1.980	1.802	{ 3.744
166,500	139.140	100.800	117,100	135.180	10,000	15,000	238,500	35,000	53,800	120,600	75,000	72,000	
-										•			45,000
73.58	53.73	62.17	32.19	31.44	41.52	31.09	51.95	46.71	34.98	43.82	30.04	33.29	17.75

...

•			Total	Apalachia	Fort Patrick Henry
Hydraulic production - single-purpose dama and pumped storage	<b>s</b> :	:			
Operation					
Supervision and engineering	ļ		\$ 158,021	\$ 21,566	\$ 11,209
Hydraulic			37,497	1,123	5,422
Electric			863,086	64,159	54,615
Miscellaneous			502,815	37,362	138,635
Total operation	;	;	1,561,419	124,210	209,881
Maintenance					
Supervision and engineering	1	1	114,563	5,472	10,674
Structures			82,639	5,510	9,365
Reservoirs, dams, and waterways	I	I	303,488	2,541	81,802
Electric plant			223,199	19,280	69,957
Miscellaneous plant	1	:	70,922	5,854	7,336
Total maintenance		1	794,811	38,657	179,134
Provision for depreciation	!	1	4,788,441	276,071	158,179
Total			\$7,144,671	\$438,938	\$547,194
					••
kWh generated less station use (thousands)			986,791	549,206	119,774 ~
Total production expense including depreciation per kWh (mills)			7.240	-799	4.569
Installed capacity at September 30, 1979 (kilowatts); note d, page 31			1,779,160	82,800	36,000
Ratio of average gross generation to installed capacity (percent)	1 1	1	22.93	75.81	38.19

g	reat Falls	Ocoee No. 3	Ocoee No. 2	Blue Ridge	Ocoee No. 1	Wilbur	Raccoon Mountain
٠.	\$ 25,861	\$ 15,566	\$ 10,300	\$ 4,594	\$ 24,014	\$ 6,018	\$ 38,893
^	16,563	4,934	998	253	5,711	2,493	-
	213,779	40,264	80,524	27,982	209,213	24,809	147,741
	44,172	43,665	32,906	26,520	98,476	19,782	61,297
	300,375	104,429	124,728	59,349	337,414	_53,102	247,931
	.34,952	12,549	18,038	7,739	11,265	8,675	5,199
	3,658	7,567	29,327	2,467	15,769	4,788	4,188
	3,216	44,777	106,828	3,329	7,317	53,195	483
	17,095	14,799	4,134	17,302	27,174	25,913	27,545
	15,286	7,823	_11,431	3,263	9,314	3,753	6,862
	74,207	87,515	169,758	34,100	70,839	96,324	44,277
	177,589	105,330	84,629	55,980	203,307	36,404	3,690,952
	\$552,171	\$297,274	\$379,115	\$149,429	\$611,560	\$185,830	\$3,983,160
~-							
••	175,832	197,296	<u> </u> 344*	54,428	89,389	27,584	226,374*
	3.140	1.507	-	2.745	6.842	6.737	17.595*
	31,860	28,800	21,000	20,000	18,000	10,700	1,530,000
	63.14	78.33	_	31.13	56.92	29.64	12.65

### TENNESSEE VALLEY AUTHORITY DETAILS OF POWER EXPENSE FOR THE YEAR ENDED SEPTEMBER 30, 1979

•	Total	Cumberland	Paradise	Widows Creek	Shawnee
Steam production			,		
Operation					
Supervision and engineering	\$ 6,929,244	\$ 829,141	\$ 648,471	\$ 971,918	\$ 725,906
Fuel	1,041,116,668	145,559,871	79,721,656	130,872,154	125,832,676
Steam	20,896,685	2,161,539	1,741,556	3,844,113	2,015,537
Electric	8,036,292	561,134	717,666	1,075,962	890,021
Miscellaneous	23,534,760	3,565,394	3,144,513	2,950,577	1,930,527
Rent	6,900,078				:
Total operation	1,107,413,727	152,677,079	85,973,862	139,714,724	131,394,667
Maintenance		:			
Supervision and engineering	4,890,651	701,908	-		
Structures	15,675,823	7,956,592			
Boiler plant	131,474,518	22,734,531	16,769,783	• •	
Electric plant	26,688,270	2,568;990	3,161,393	4,284,630	2,480,976
Miscellaneous plant	8,245,314	1,121,759	1,348,272	1,226,050	541,041
Total maintenance	186,974,576	35,083,780	23,565,263	25,982,936	12,221,668
	(0-	1 (		0 005	
Provision for depreciation	72,637,980	12,436,622	10,560,359	9,328,883	7,165,530
•	*	÷			
Total	\$1,367,026,283	\$200,197,481	\$120,099,484	\$175,026,543	\$150,781,865
	• •	į.	•		*
					**
					•
kWh generated less station use (thousands)	78,080,953	10,404,220	10,401,798	7,585,974	7,962,181
Total production expense					
including depreciation per kWh (mills)	17.508	19.242	11.546	23.072	18.937
Installed capacity at					
September 30, 1979 (kilowatts)	17,796,085	2,600,000	2,558,200	1,977,985	1,750,000
Ratio of average gross					
generation to installed capacity (percent)	53.21	47.52	48.65	46.50	55.73
	- <del>-</del>	· ·	_		

	Kingston	Johnsonville	Colbert	Gallatin	Bull Run	John Sevier	Watts Bar	Thomas H. Allen (note 3, page 11)
;	\$ 514,861	\$ 671,229	\$ 696,500	\$ 479,893	\$ 403,653	\$ 365,339	\$ 192,373	\$ 429,960
	126,880,216	89,998,472	72,054,243	85,153,982	58,744,952	63,631,644	14,367,573	48,299,229
•*	2,042,170	1,958,438	1,915,494	1,258,891	960,558	1,019,802	990,131	988,456
	883,058	881,365	778,069	593,379	419,922	457,255	398,592	379,869
	1,914,281	1,989,861	1,828,150	1,734,206	1,400,881	999,174	623,966	1,453,230
								6,900,078
	132,234,586	95,499,365	77,272,456	89,220,351	61,929,966	66,473,214	16,572,635	58,450,822
								1
	•	•			_			
	430,891	308,747	393,003	326,574	310,081	199,660	125,297	313,907
	1,200,162	538,892	790,031	635,634	271,003	243,167	368,196	387,795
	15,582,987	7,103,343	12,939,559	7,511,799	7,076,353	3,429,311	3,319,471	8,114,593
	2,006,533	3,973,754	2,341,208	2,396,019	1,345,270	992,687	192,087	944,723
	579,437	748,887	760,258	319,284	472,308	405,654	411,026	311,338
	19,800,010	12,673,623	17,224,059	11,189,310	9,475,015	5,270,479	4,416,077	10,072,356
	7,662,010	5,650,216	5,182,034	5,070,636	4,824,402	3,248,566	651,874	856,848
;	\$159,696,606	\$113,823,204	\$99,678,549	\$105,480,297	\$76,229,383	\$74,992,259	\$21,640,586	\$69,380,026
;								
٠.						-		
								•
•*	0 200 1/70	6,428,040	5,078,473	6,073,968	4,758,842	5,178,136	880,091	4,000,758
	9,328,472	0,420,040	7,010,413	0,013,900	4,70,042	7,110,130	000,091	4,000,720
	-5	- <del> </del>	70.600	27.066	26.029	al. 1.00	مار چې	17 ako
	17.119	17.707	19.628	17.366	16.018	14.482	24.589	17.342
		. 10	. laa		000 000	01.6 ===	alia ass	000 000
	1,723,250	1,485,200	1,419,750	1,255,200	950,000	846,500	240,000	990,000
				_		_		<b>1</b>
	66.59	53.25	43.71	59.14	59.39	73.99	44.45	50.14

### TENNESSEE VALLEY AUTHORITY DETAILS OF POWER EXPENSE FOR THE YEAR ENDED SEPTEMBER 30, 1979

Gas turbine production	Allen	Colbert	Gallatin	Johnsonville	Total
Fuel expense Other operating expense  Maintenance Provision for depreciation	\$3,953,531 99,465 4,052,996 630,165 2,065,807	\$2,674,636 <u>243,739</u> 2,918,375 1,329,706 1,643,628	\$1,425,874 74,681 1,500,555 62,944* 1,220,440	\$11,524,074 140,368 11,664,442 894,952 3,464,200	\$19,578,115 <u>558,253</u> 20,136,368 2,791,879 8,394,075
Total	\$6,748,968	\$5,891,709	\$2,658,051	\$16,023,594	\$31,322,322
		=======================================			-
kWh generated less station use (thousands)	106,661	73,778	37,531	327,725	545,695
Total production expense including depreciation per kWh (mills)	63.275	79.857	70.823	48.893	57.399
Installed capacity at September 30, 1979 (kilowatts)	620,800	476,000	325,200	1,088,000	2,510,000
Ratio of average gross generation to installed capacity (percent)	2.03	1.82	1.41	3.50	2.55
Nuclear production - Browns Ferry  Operation Supervision and engineering Fuel Coolants and water Steam Electric Miscellaneous Total operation Maintenance			, , , , ,		\$ 2,810,377 47,978,968 1,058,803 9,146,212 1,673,118 10,836,306 73,503,784
Supervision and engineering Structures Reactor plant Electric plant Miscellaneous plant Total maintenance					3,338,150 2,223,878 17,078,884 3,821,729 3,601,220 30,063,861
Provision for depreciation					29,164,868
Total (statistics appear on	page 31)				\$132,732,513 -=
Transmission					-
Operation Supervision and engineering Load dispatching Stations Overhead lines Transmission of electricity by Miscellaneous Rents	others				\$ 3,691,134 1,854,318 4,850,396 664,069 8,676 4,845,066 1,392,577
Total operation					17,306,236
W=					

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\*Deduct

## TENNESSEE VALLEY AUTHORITY DETAILS OF POWER EXPENSE

FOR THE YEAR ENDED SEPTEMBER 30, 1979

Transmission - continued		
Maintenance Supervision and engineering Structures Station equipment Overhead lines Miscellaneous plant Total maintenance		\$ 454,611 456,698 7,982,409 5,056,008 618,708 14,568,434 \$31,874,670
Customer accounts		4 00C kpp
Meter reading Customer records and collections		\$ 206,433 560,506
Total		<u>\$ 766,939</u>
Demonstration of power use		
Supervision and general Domestic and rural Commercial and industrial Home weatherization program Information services Residential technical applications Load management Solar applications and demonstrations		\$ 2,846,530 935,820 1,807,517 3,933,174 348,302 221,366 250,805 2,413,251 12,756,765
Less reimbursement from power distributors for technical advisory services		642,484
Total		\$12,114,281
Administrative and general	•	
Direct		
Operation Salaries Office supplies and expenses Less transfers to construction and other accounts Outside services employed Property insurance Injuries and damages	\$11,055,211 <u>5,537,927</u>	\$16,593,138 1,551,903 15,041,235 1,009,823 522,700 6,526,294 41,619,325
Employee pensions and benefits Miscellaneous		16,547,154
Rents Electricity used by shops and laboratories		1,473,316 290,082*
Total operation		82,449,765
Maintenance General property		324,802
Total direct		82,774,567
Allocation from nonpower divisions  TVA general offices  Direct; schedule F  Multiple-use; schedule E  Other divisions	\$10,661,548 36,550 83,705	10,781,803
Total administrative and general charged to power operations		\$93,556,370
4D = 34		

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\*Deduct

# TENNESSEE VALLEY AUTHORITY DETAILS OF NONPOWER NET EXPENSE FOR THE YEAR ENDED SEPTEMBER 30,,1979

					Direct	Multiple-use (schedule E)	Total
REGIONAL RESOURCES DEVELOPMENT Navigation operations	:	1	:	:	: : : :		·
Studies and investigations Navigation engineering and investigations Administrative and central general expenses		 	! ! !	:	\$1,307,048 <u>23,955</u> 1,331,003	\$ <u>-</u>	\$ 1,307,048 <u>23,955</u> 1,331,003
Operation and maintenance of facilities Operation Maintenance					110,814 316,488	2,337,003 603,421	2,447,817 919,909
Administrative and general expenses Provision for depreciation				!	2,020,843	27,074 962,685	27,074 <u>2,983,528</u>
Total expense of navigation operations					\$3,779,148	<u>\$3,930,183</u>	7,709,331
System flood control operations Studies and investigations System studies and investigations Administrative and central general expenses	! ! ! !	!!!	:	:	\$ 614,561 9,165	<b>\$</b> -	614,561 9,165
Operation and maintenance of facilities					623,726	-	623,726
Operation Maintenance Administrative and general expenses Provision for depreciation	: :		;	i	367,310	3,191,358 713,685 . 36,550 1,083,608	3,191,358 713,685 36,550 1,450,918
Total expense of system flood control opera-	tions				\$ 991,036	\$5,025,201	6,016,237
Recreation development Recreation development Administrative and central general expenses		I	ı	_	\$1,115,353	\$ <u>-</u>	1,115,353 26,391
Operation and maintenance of facilities Operation and maintenance Administrative and general expenses	: :	:	:	:	238,947	2,833,896 32,489	1,141,744 3,072,843 32,489
Provision for depreciation	1 1	I	ı	ı	116,447	383,184	499,631
Total expense of recreation development					\$1,497,138	\$3,249,569	4,746,707
Tributary area development  Basic investigations					\$ 477,380	\$ -	477,380
Development assistance in specific tributary areas Local government assistance Administrative and central general expenses	; ;	*	i	i	1,655,613 372,122 41,886 2,547,001	-	1,655,613 372,122 41,886
Operation and maintenance of facilities Operation and maintenance Administrative and general expenses		;	:	:	: :	390,014 2,707	2,547,001 390,014 2,707
Provision for depreciation  Total expense of tributary area development	1 1	ı	ı	i	194 \$2,547,195	269,102 \$ 661,823	<u>269,296</u>
· · · · · · · · · · · · · · · · · · ·					42,571,437	<del>φ 001,023</del>	. 3,209,018 -
Regional water quality management Regional water quality management Provision for depreciation Administrative and central general expenses			:	•			1,401,778, 56,063 14,360
Total expense of regional water quality mans	gemen	t					1,472,201
Fisheries and wildlife resources development Fisheries resources development Wildlife resources management Provision for depreciation Administrative and central general expenses	: :	:		:			689,224 692,394 60,118 17,428
Total expense of fisheries and wildlife reso	urces	dev	elop	ment	;		1,459,164
Preliminary surveys and engineering Preliminary surveys and engineering Administrative and central general expenses	 	 	 	i : I			338,730 4,148
Total expense of preliminary surveys and eng	gineer	ing					342,878

#### SCHEDULE D TENNESSEE VALLEY AUTHORITY PAGE 2 **DETAILS OF NONPOWER NET EXPENSE** FOR THE YEAR ENDED SEPTEMBER 30, 1979 REGIONAL RESOURCES DEVELOPMENT - continued Environmental education Environmental education 479,692 Provision for depreciation 8,336 841 Administrative and central general expenses 492,869 Total expense of environmental education Valley agricultural development Farm resource management and fertilizer use 39,437 Fertilizers used Planning and supervision 573,259 1,612,696 30,447 Less farmer payments for fertilizer 1,582,249 Program evaluation and analysis 229,575 Technical assistance to Valley development organizations 152,102 Developing specialty enterprises for the rural poor 577,013 160,579 18,640 Agribusiness development Administrative and general expenses Net expense of Valley agricultural development 2,720,158 Forest resources development 2,194,202 Forest resources development 14,511 Provision for depreciation 37,978 Administrative and central general expenses 2,246,691 Total expense of forest resources development Strip mine reclamation demonstrations 2,009,027 Strip mine reclamation demonstrations 32,324 Administrative and central general expenses 2,041,351 Total expense of strip mine reclamation demonstrations Interagency health services demonstrations 602,279 Interagency health services demonstrations 4,086 Administrative and central general expenses 606,365 Total expense of interagency health services demonstrations Regional economic studies 763,749 Regional economic studies 11,616 Administrative and central general expenses 775,365 Total expense of regional economic studies Townlift community improvement 736,182 Townlift community improvement Administrative and central general expenses 13,219 Total expense of townlift community improvement 749,401 \_\_\_Human resources development 756,609 Human resources development 7,215 Administrative and central general expenses 763,824 Total expense of human resources development Minerals resources projects 315,093 Minerals resources projects Administrative and central general expenses 4,084 319,177 Total expense of minerals resources projects Special opportunities counties program 476,434 Special opportunities counties program 7,067 Administrative and central general expenses 483,501 Total expense of special opportunities counties program Minority economic development 674,771 Minority economic development 1,786 Administrative and central general expenses 676,557 Total expense of minority economic development

Fertilizer introduction
Fertilizer industry demonstrations
Fertilizers used
Educational distribution expense
Administrative and general expenses

Less industry payments for fertilizer

Farm test demonstrations outside the Valley
Fertilizers used
Planning and supervision
Administrative and general expenses

Less farmer payments for fertilizer

Net expense of fertilizer introduction

Developmental production
Cost of products distributed
Materials used
Direct manufacturing and shipping expense
Indirect manufacturing and shipping expense
Provision for depreciation and depletion
Finished inventory changes
Total cost of products distributed
General expenses
Gain on sale of phosphate reserves, net

Loss on retirements of manufacturing plant and equipment, net
Other general expenses
Administrative and general expenses
Shipping order-and field inventory expenses
Provision for depreciation of idle manufacturing plant and equipment
Other, including depreciation of \$4,013

Total general expenses
Total production expense

3,863;138 14,091,882 10,472,697 2,901,995 2;121,060 871,782\* 28,715,852 71,347\* 417,073

23,517;076

269,409

13,980 1,287,923

162,041 1,125,882

1,004,534

1,116,24 1,461,96 30,177,82

\$225,694

166,471

\*Deduct

TENNESSEE VALLEY AUTHODITY		SCHEDULE D*
TENNESSEE VALLEY AUTHORITY	•	PAGE 4
DETAILS OF NONPOWER NET EXPENSE	* -	18
FOR THE YEAR ENDED SEPTEMBER 30, 1979		,
FERTILIZER DEVELOPMENT - continued  Developmental production - continued  Less transfers and sales of products  Transfers to TVA programs, at market prices  Fertilizer industry demonstrations  Farm test demonstrations		\$21,308,079 269,409
Agricultural development		39,437 70,040
Other Total transfers		21,686,965
Direct sales		150,519
Total transfers and sales		21,837,484
Net expense of developmental production		8,340,337
Net expense of fertilizer development		\$23,268,515
NATIONAL ENERGY DEMONSTRATIONS		•
Waste heat utilization		
Greenhouse environmental control, including depreciation	•	\$ 727,141
of \$261;171 Soil heating to extend crop growing season		14,352
Biological recycling of nutrients from livestock waste		299,734
Environmental control of livestock facilities	4	12,935
Aquaculture		331,547 6,955
Administrative and general expenses Watts Bar waste heat park development		636,359
Net expense of waste heat utilization	T.	2,029,023
Solar energy demonstrations		1,663,006
Coal gasification demonstration		306,589 571,944
Atmospheric fluidized bed combustion demonstration		127,515
Other energy demonstration projects		
Total expense of national energy demonstrations		\$ 4,698,077
LAND BETWEEN THE LAKES OPERATIONS		A 1. 201. 520
Land Between The Lakes operations		\$ 4,754,570 700,033
Provision for depreciation Administrative and central general expenses		91,956
Ruministrative and central Benefal expenses		
Total expense of Land Between The Lakes operations		\$ 5,546,559
VALLEY MAPPING AND REMOTE SENSING		
Valley mapping and remote sensing		\$ 980,648
Provision for depreciation		16,289
Administrative and central general expenses		14,827
Total expense of Valley mapping and remote sensing		\$ 1,011,764
- · · · · · ·		
OTHER EXPENSE OR INCOME		\$ 105,606
Scientific and technical cooperation		22,319
Southeastern regional library demonstration Emergency preparedness		15,323
Maintenance of bridges financed by others on TVA dams		1,084,520
Interest income from receivables	•	<u>39,513</u> *
		100
Other expense, net		<u>\$ 1,188,255</u>
- ·		
· NET EXPENSE		\$81,919,322

# TENNESSEE VALLEY AUTHORITY OPERATING EXPENSES OF MULTIPLE-USE FACILITIES FOR THE YEAR ENDED SEPTEMBER 30, 1979

### SCHEDVLE E

### Expenses

Oper	ation
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Water control operations	1	I	I	I	!				1	1	1	\$1,677,553
Water control investigations	: : I :	!	!	!	!	1	1	:	1	1		296,647
Investigations and control of reservoir ecology												1,429,499
Plant protection and services to visitors	: :	ı	ı	ı	;	;			;	;	1	2,320,077
Operation and upkeep of dam reservations		;	;	;								2,267,957
Reservoir land management	: :	ı	ı	ı		:	1		1	1		3,322,894
Development of water resource management method:	: <b>S</b>	ı	٠.		:	:						560,053
Central services expenses		1	1	ı	i	i	i	i	i	i	į	90,362
Total operation												11,965,042
Administrative and general expenses	<u>.</u> 1	!	!	!	!	!	!	!	!	!	į	135,370
Maintenance												2,408,229
Provision for depreciation	: 1	1	1	1	:	:	:					3,945,875
Total												\$18,454,516

Distributed to	Operation	Administrative and general	Maintenance	Depreciation	Total
DISCIDUCED CO					
Power operations	\$ 3,415,379	\$ 36,550	\$ 888,515	\$1,247,296	\$ 5,587,740
Navigation operations	2,337,003	27,074	603,421	962,685	3,930,183
Flood control operations	3,191,358	36,550	713,685	1,083,608	5,025,201
Recreation development	2,737,197	32,489	96,699	383,184	3,249,569
Tributary area development	284,105	2,707	105,909	269,102	661,823
' Total	\$11,965,042	\$135,370	\$2,408,229	\$3,945,875	\$18,454,516

## TENNESSEE VALLEY AUTHORITY ADMINISTRATIVE AND GENERAL EXPENSES

FOR THE YEAR ENDED SEPTEMBER 30, 1979

Total

Expenses		
Board of directors		\$ 446,544
Office of the general manager		1,165,092
Planning and budget staffs Weshington office		381,644
Washington office Information office, including technical library service		3,251,555
Equal employment opportunity staff		1,394,152
Division of personnel		1,055,553
. Division of finance		4,772,430
Office of the general counsel		4,123,121
Office of management services	•	106,732
- Division of property and services		873,564
Division of management systems		1,143,050
Medical and safety services		3,717,878 218,196
Other administrative and general		210,190
Total		\$23,754,032
•		Percent
	Amount	of total
Distributed to Construction and investigations in progress	\$11,849,070	49.88
Recovered through services billed to others at cost	352,040	1.48
Expense of programs		
Power	10,661,548	44.88
Water resources development	-1	
Navigation	14,003	.06
System flood control	7,001	.03
Regional water quality management	9,336	.04 .01
Fisheries and wildlife resources development	9,336	.04 .01
Preliminary surveys and engineering	2,334 11,670	.05
Recreation development Environmental education	2,334	.01
Multiple-use facilities operations	135,370	.57
Fertilizer development	-57,514	•2.
Developmental production	225,694	•95
Fertilizer introduction	• • • •	•
Fertilizer industry demonstrations	137,295	.58
Farm test demonstrations	13,980	.06
Research and development	123,315	.52
National energy demonstrations	6,955	.03
Regional resources development	n0 (lin	20
Valley agricultural development	18,640	.08
Forest resources development	23,340	.10 .10
Strip mine reclamation demonstrations	23,340 23,340	.10
Tributary area development	2,334	.01
Interagency health services demonstrations	7,001	.03
Regional economic studies	9,336	.04
Townlift community improvement Human resources development	4,668	.02
Special opportunities counties	7,002	.03
Minerals resources projects	2,334	.01
Local flood damage prevention operations	9,336	.04
Environmental quality projects	2,334	.01
Land Between The Lakes operations	51,347	.21
Valley mapping and remote sensing	8,399	.03

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