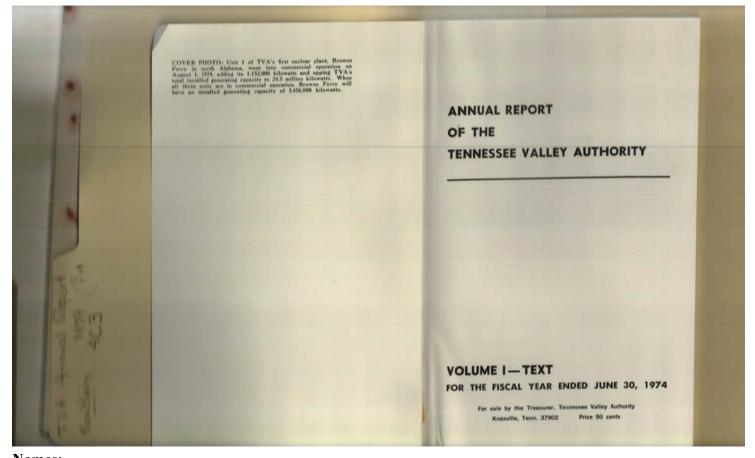
Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 1r04c03-19-000-0079ContentsIndexAbout



Names: Annual Report of the

TVA

Places:

Knoxville, TN

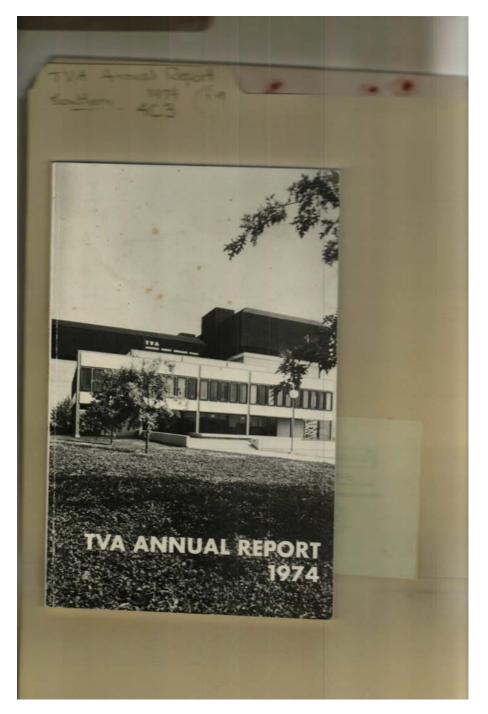
Types:

report

Dates:

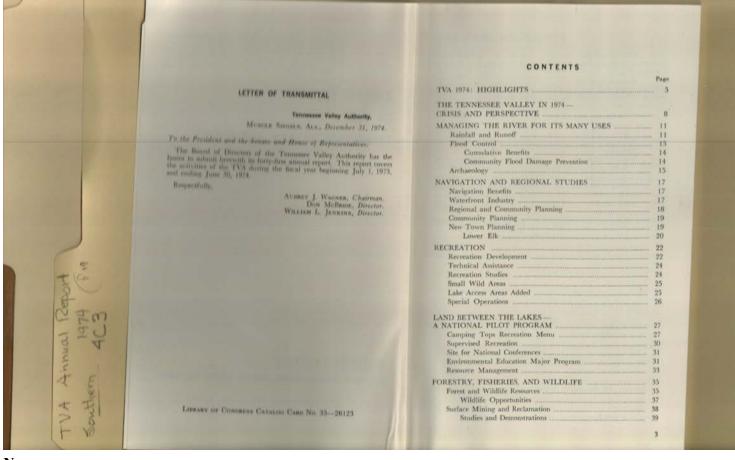
Jun 30, 1974

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 2r04c03-19-000-0080ContentsIndexAbout



Types: photo Dates: 1974

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 3r04c03-19-000-0081ContentsIndexAbout



Names:

Places:

Types:

Dates:

Jenkins, William L.

Muscle Shoals, AL

correspondence

Dec 31, 1974

McBride, Don

TVA

Wagner, Aubrey J.

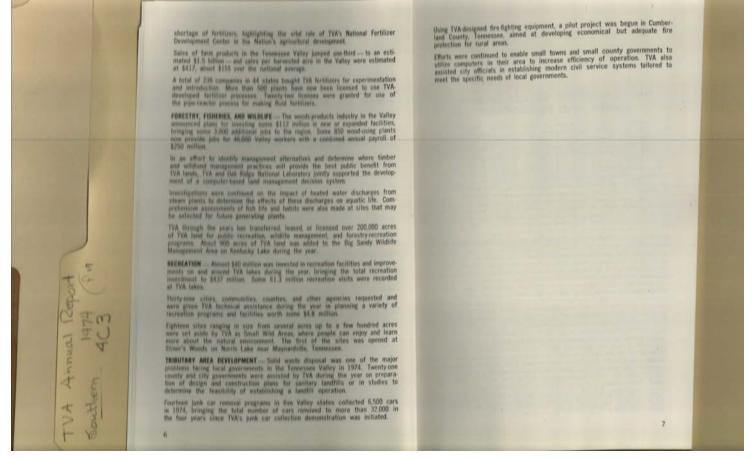
Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States Image 4 r04c03-19-000-0083 Contents Index About

	the second s	States and	Concernance of the second s
		Page	TVA 1974: HIGHLIGHTS
	Fisheries		
	Personal Press Pression	10	FLOOD CONTROL - The TVA river control system regulated five floods on the
	Effects of Housest Water Studied	445	
	Waterfowl	41	Ohio and Mississippi Rivers. Total flood damages averted during the year were
	Resident Waterfow!	41	\$67.1 million, including \$53.2 million at Chattanooga.
	THE TVA POWER SYSTEM	10	Cumulative flood damages averted by the system since TVA's first project went
	Power Use		into operation in 1936 total nearly \$1.3 billion, nearly five times the total cost of the flood control system.
	Power Supply	44	
	Firstly and first and firs		HAVIGATION Freight traffic on the Tennessee River exceeded 29 million tons, a new tonnage record for the twelfth consecutive year. Shippers using the
	Revenues	46	record. Traffic moved 3.95 billion ton-miles, a 5 percent increase over last year
	P transfer trag	14	and only slightly less than the record ton-mileage set in 1971.
	Treasury Payments	46	Private investment in new and expanded facilities along the Tennessee River
	Tax Payments on TVA Preser	44	was estimated at \$329 million in 1973, the largest yearly total ever recorded.
and the second se	Person Conservation	47	ELECTRIC POWER - The rising cost and short supply of coal was the most serious
	Environmental Protection	40	
the state of the s	Air Quality	50	
and the second se	Water Quality	50	Cost per million Btu of fuel burned jumped to 39.69 cents, up from 34.44 cents
	Penerr Research	51	in 1973.
	TVA Putchasing	52	Receipts of coal during the year totaled some 34 million tons, about six million
the state of the s	TRIBUTARY AREA DEVELOPMENT		
	Waste Management Activities		million tons at year's end, with the plants averaging 23 days less than the horman
	Rural Fire Protection		90-day supply.
	Improving Services Through Computerization		Rising power costs, particularly for coal, necessitated rate adjustments effective
	Administrative Amistance	111110000011 58	in January and July 1974. As the year ended, the average residential rate was 1.45 cents per kilowatthour, up .15 cent from the preceding year, but still among
The Car	Working with Youth		the very lowest in the Nation.
12	Expanding Recreational Opportunities	. 58	Power revenues improved by \$134.3 million, approaching \$884 million, but
A	Interneting Educational Organization	21	
0	Health Care	61	
(In		10 (annual a	
- Frank	AGRICULTURE: FERTILIZER RENEARCH		a dividend on the Government's outstanding appropriations investment. As a result, only \$22.7 million, 2.6 percent of operating revenues, remained to be
120	HELPS A HUNGRY WORLD	69	invested in power assets.
All -	New Pertitiers Based on Urea	29	
2 4	Fluid Fertilizers	22	State and local governments received \$31.1 million from TVA as payments in lieu of taxes, nearly \$4 million more than in 1973. Distributors of TVA power
8	Other Research Areas	00	also paid \$33 million in taxes or tax equivalents to state and local governments
	A Serministration Production	214	in the region.
A E	Working with Industry	1000000000 ETC	The test operation of Browns Ferry nuclear unit 1 provided nearly 2 billion
	Working with Farmers	En la	kilowatthours to the system. Fuel loading for Browns Ferry unit 2 was approved
	Superial Valley Development Penteria		by the Atomic Energy Commission.
大石	Agrifuntions Crows in Region	49.12	ACREATING Record fartilizer use about 20 million tons of nutrients, in
2 3	International Programs	74	response to surging demand for U. S. farm products resulted in a nationwide
L va			terbourse to see Built annual ter at an annual terraries
T YO			5

Names:

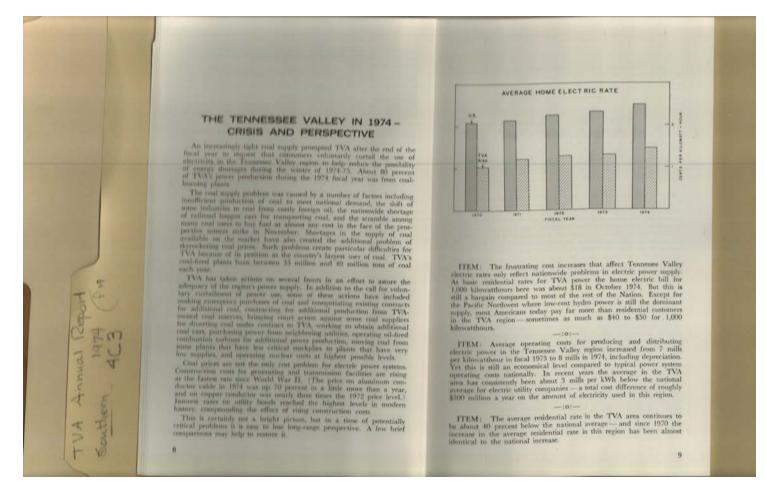
TVA Highlights **Types:**

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 5r04c03-19-000-0084ContentsIndexAbout





Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 6r04c03-19-000-0085ContentsIndexAbout

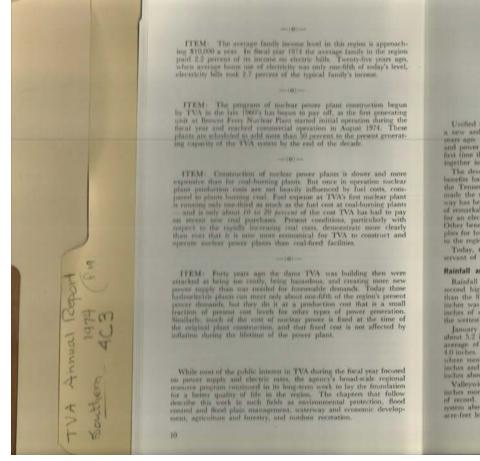


Names:

Electric Rates for Home

Types:

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0086 Image 7 Contents Index About



MANAGING THE RIVER FOR ITS MANY USES

The development of an entire river system was and exciting concept when TVA was created by Congress 41 were age. The basic development activities — flood control, navigation, and power production — were not new in themselves, but this was the inst immediates related parts of resource development had been brought methan in one comprehensive effort for a major region. The development of multiple-purpose reservoirs with their associated institute has helped make tremendous changes in the quality of life in the Trunessee Valley over the past four decades. Flood control has a transfer to a four decades. Flood control has a formath the shoreline safe for industries and jobs. The navigable waterway has helped transform a landlocked agricultural Valley into a region of remarkable industrial growth. Hydrelectric power provided the base for an electric system which set lines into every corner of the region. Their software made in the storement. To also made the storement of the region is development.

Today, there is no question that the Tennessee River is truly the servant of the Valley's people.

Rainfall and Runoff

<text><text><text><text><text>

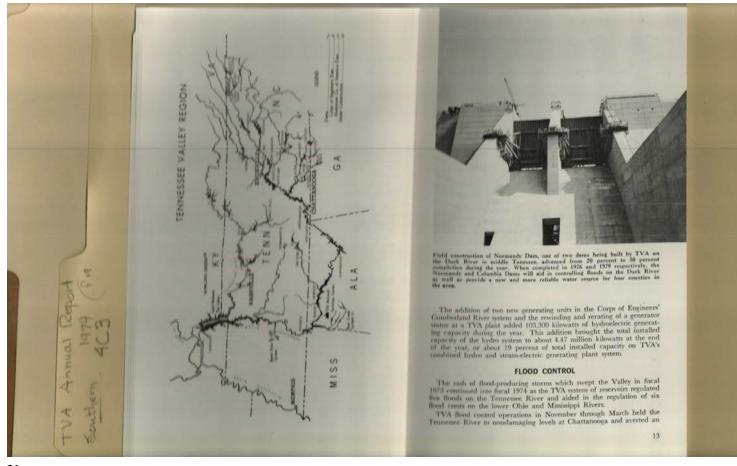
11

Names:

Tennessee River Management

Types:

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 8r04c03-19-000-0087ContentsIndexAbout



Names: Normandy Dam

Tennessee Valley Region

Types:

map

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0088 Image 9 Contents Index About

> estimated \$31.2 million in flord damages at that city alone. The greatest creat reduction occurred in March when the reservoir system lowered the river 11.4 feet at Chattannoga to a level about 10 feet below flord tage. Tim Ford, TVA's newsa dam, reduced the ER River crest on three oparatic occasions at Fayestaville, Tennessee, and spared that city an restinated 8800.000 in fixed damages. Operation of the TVA reservoir system in Booke during Jamairy and February also averted flood damages totaling \$4.5 million along the lower Ohio and Missiappi Rivers, as estimated by the Corps of Engineers. Trust Bone damages averted by the TVA reservoir system during the formaties \$67.1 million. This total includes the \$53.2 million in averted for an event \$67.1 million. This total includes the \$53.2 million in averted for an event \$67.1 million. This total includes the \$53.2 million in averted for an event \$67.1 million. This total includes the \$53.2 million in averted for Tennessee Valley, and more than \$7.4 million along the lower Ohio and Missianppi Rivers. Comulative Benefits Ford control branchis attributable to the TVA flood control system more usual meanly \$1.3 hillion. This is almost five times the total cost of the flood control system, including \$197 million in capital investment plus \$6.3 million in operation and maintenance costs since North Dam was completed in 1936.

Damages averted new total \$71 million along the lower Ohio and Minisoippi Rivers and nearly \$1.1 hillion in the Tennessee Valley, mostly at Chartensenga. In addition, the ability of the reservor system to reduce fixed heights along the Miniscippi River levees that guard six million arres of providentive levels in the estimated to increase the value of that land by \$150 million.

¹⁰ 31:00 million Local flood control projects built by TVA also continue to contribute invition transverve Organica, and Improved channels at Cochurn, Vir-ania, and Resinvalle and Oliver Springs, Tennessee, Accumulated flood control benefits from these projects new total about \$6 million, over 95 percent of the project conts.

Community Flood Damage Prevention

Thread events to find be prevented by the second se

Thirteen requests for fload information reports outlining local fload situations were reserved by TVA in facal 1974 and were in various stages of preparation as the year ended. These reports are coordinated with other Federal and state agencies to assure maximum coverage of needs for such information.

One thrust of this program is to assist communities in developing or revising their running ordinances to restrict construction in flood hazard structures. These ordinances and regulations are written to reserve open bundways for the safe passage of flood/states and to require structures in the adjacent fringe areas to be above specified flood levels. Twensiene Valley communities adopted flood plain regulations in their suning urdinances or subdivision regulations, or both, during fiscal 1974, making a total of 103 communities which have such regulations. TWA also provided 29 communities in Alabama, North Carolina, Ten-genese, and Vinginia, with assistance in drafting such regulations during the structure of TVA's Local Flood Relations Staff also assisted planners

Manufers of TVA's Local Flood Relations Staff also assisted planners and influers in encouraging Valley communities to qualify for federally sponward flood insurance. Eighty-four Valley communities have been deviated eightle for the sale of the insurance, an increase of 37 during the past year.

Archaeology

TVA began professional and scholarly archaeological investigations in 1914 when sites of Indian habitation in the area to be inundated by North Reservoir were carefully excavated and studied. Since that initial program, TVA in conjunction with other governmental agencies and area universities, has conducted archaeological investigations in TVA reservoirs and at TVA steam plants, substation sites, and along trans-

mutaion lines. During 1974, extensive archaeological investigations were continued or initiated at the Tellico Dam and Reservoir project in east Tennessee, the Normandy and Columbia Dam and Reservoir sites in middle Ten-essees, and the proposed Belleforte Nuclear Plant site in northeast Alabams and Hartwille Nuclear Plant site in middle Tennessee. Similar investigations were completed for the Little Bear Creek unit of the Bear Creek project in northwest Alabama and several archaeological surveys and investigations were made along proposed transmission line intera and at substation sites.

At Tellico, a full-scale excavation of the Tellico Blockhouse was indertaken to determine the limits of the 1794-1807 trading and military post. The site of Chota, 18th century capital of the Cherokee Indians, was also further examined. Carbon samples from a third site in the area were carbon-14 dated at between 6650 and 6110 B.C., making it the earliest stratified site discovered in Tennessee.

15

Names:

A

1

Archaeology

-

C34

outhern

14

Types:

report

Flood Damage

Prevention

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States Image 10 r04c03-19-000-0089 Contents Index About



Names:

Naval & Regional Studies

Types:

photo

report

NAVIGATION AND REGIONAL STUDIES

For the twelfth consecutive year Tennessee River freight traffic has at a new tonnage record. More than 29 million tons of commercial freight moved on the Ten-merce River in calendar year 1973 exceeding the previous year's record in Ri0,000 tons, an increase of 3 percent. The traffic moved 3.95 billion minites a 5 percent increase over the year before and only slightly less than the record ton-mileage set in 1971. More than 86,000 barges and nucleons, and 20,000 recreational craft locked through the nine tennessee River dats.

Temperature River dama. Of the traffic using the Tennessee River in 1973, 77 percent either microanset or terminated outside the Valley, and this interregional traffic arranged for 97 percent of the estimated record savings to shippers.

Navigation Benefits

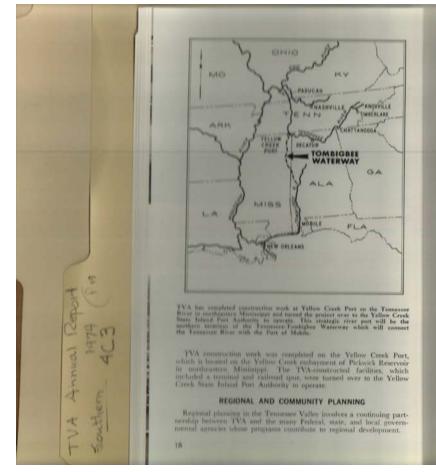
Marigation Benefits hippers using the Tennessee River waterway saved an estimated \$1.6 outlion in transportation costs on freight carried in 1973. This is a million more than the previous high reached a year age. The water figure esceeded waterway operating costs, including depreciation, \$65.5 million, representing a return on net navigation investment of 26.5 percent. Since 1933, Federal costs of operating Tennessee there marigation facilities, including depreciation, total \$166.6 million. Accumulated savings in the same pered amount to \$755.1 million. The savings figures are estimates of the effect on shippers freight much the construction and use of the Tennessee River navigation frame. Barge shipment costs are compared with costs that woold have been correct if the shipments had been made via the next cheapest inter study enormed its shipment, and if rates had not been reduced to waterfront industry

Waterfront Industry

Materirunt industry Investment by private industry in new and expanded facilities along the Tunnesse River was estimated at \$329 million in 1973, the largest reach total ever recorded. Waterfront industries now represent an investment of nearly \$21/6 billion. Growth was highlighted by the construction of a \$30 million corru-mating paperboard plant at Stevenson, Alabama; expansions in north-Alabama by four companies totaling more than \$100 million; a multi-mitted for the start of the start of the start of the start of the start method of the start of the start of the start of the start of the method of the start of the start of the start of the start of the method of the start of the start of the start of the start of the method of the start of the method of the start of the method of the start of th

17

Series 4, Subseries C, Box 3, Folder 19 Frances Cabaniss Roberts Collection: Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0090 Contents Image 11 Index About



TVA has joined with other governmental units to systematically making resources and growth patterns on a subregion-by-subregion basis within dur Valley. This analysis heip public accorcies reach arcement in these populational and environmental objectives designed to meet the much of a rapidly changing society.

Updating of information and analysis of resources and growth patterns on a subregional basis were completed during the year in southeast Primessee, neutrit Alabama, and northeast Mississippi. Other planning werk is continuing with regional agencies in Alabatna, Tennessee, Vir-gina, and North Carolina, with reservoir shoreline planning and com-munity adjustments in nuclear project areas receiving special emphasis.

Community Planning

Tempiriumity Planning Within the framework of broad regional and subregional plans, TVA after works with city and regional planning agencies to revitalize older communities and to determine opportunities for potential new town development. In its effort to revitalize existing communities, TVA's Transititi program gives special attention to small- and medium-sized communities which are an important life style alternative to the large materialities centers of the Nation. Generally, Townlift assistance matrixes multidiciplant teams consisting of city planners, architects, importants and engineers who have knowledge and expertise in problem adving within urban areas. Datase 1973 areas 43.

advice within orban areas. During 1973 some 43 communities received Townlift assistance. For sample, the cities of Bristel, Tennessee-Virginia, are well into the implementation of their Townlift program. The Winston's Alley project, building is under construction with overhead utilities now being placed underground. The downtown Merchant's Association has set up an architectural review committee which is presently working with three local architects to coordinate building renovations planned within the moment area.

Propert area. The Townlift program in Saltville, Virginia, has provided the town with a finand comprehensive planning and development program designed to radius the impact of a major plant closing. During the year Townlift anistance has resulted in the approval of a \$189,000 Economic Develop-ment Administration industrial redevelopment grant; adoption of a nume the insue Administration of a site development for an for a 70-unit and thome Administration is site development for a rot and and thome Administration of a major regulation; approval by the Farmest Hame Administration of a site development for a rot area and the startup of a lumber mill financed under a Small Business Administration industrial loan.

New Town Planning

On a broader scale, TVA's planning efforts have continued to focus in two new town type developments during the year.

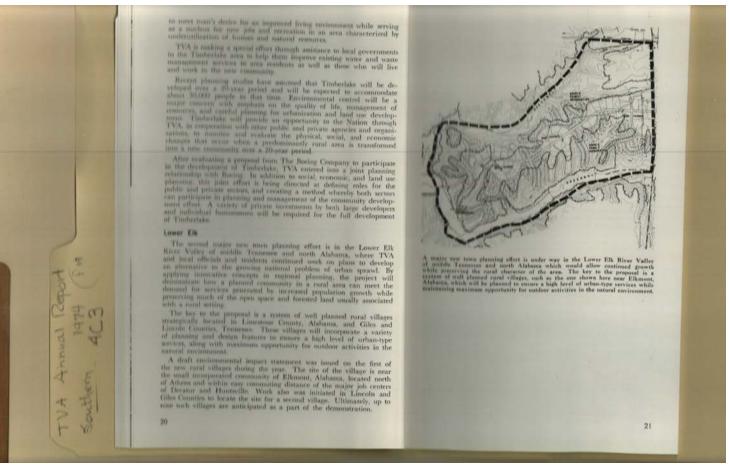
Timberlake, a proposed new community for the future shorelands of Tellion Reservoir in east Tennessee, will provide an innovative approach

19

Names: **TVA Planning Types:** map

Tombigbee Waterway

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 12r04c03-19-000-0091ContentsIndexAbout



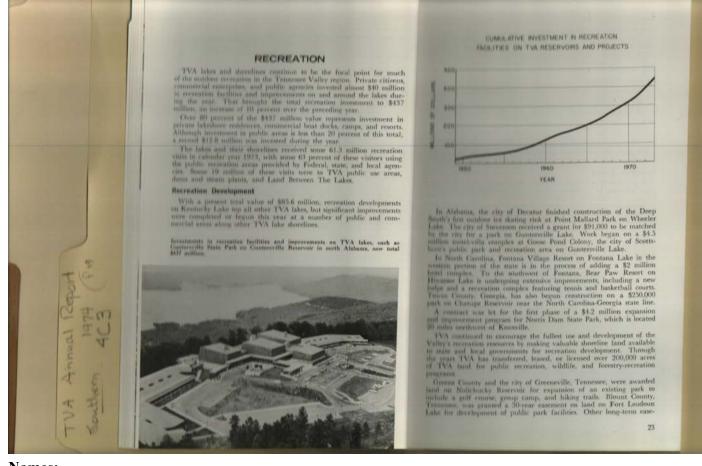
Names:

Lower Elk River Valley

Types:

map

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 13r04c03-19-000-0092ContentsIndexAbout



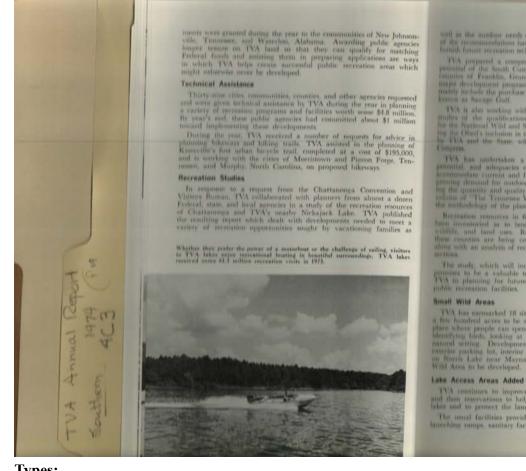
Names:

Types:

photo

Guntersville State Park Recreation

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0093 Image 14 Contents Index About



Types: photo well as the number needs of residents in the immediate area. Several of the recommendations have already been implemented, and TVA will formula future recreation technical assistance on a project-by-project basis.

TVA prepared a comprisensive analysis of the outdoor recreation potential of the south Camburdand area, which includes the Termessee manue of Franklin, Grandy, and Marion. This study resulted in a maps development program by the State of Tennessee which will ulti-methy include the purchase and preservation of a 10,000-acre wilderness sumes as Saxage Gulf.

TVA is a sinu working with the U. S. Department of the Interior on multise of the qualifications of Termesce's Buffalo and Obed Rivers in the National Wild and Scarie Rivers Systems. A report recommend-ing the Obed's inclusion in the national system, with joint administration or TVA and the State, will soon be submitted to the President and Comprise

TVA has undertaken a comprehensive study of the availability, presential, and adoptacias of Tennessee Valley recreation facilities to arrange the supervised and future needs in an effort to meet the ever-printing discussion for autions recreation opportunities without diminid-ing the queenity and quality of the region's natural resources. The first additions of The Tennessee Valley Outdoor Recreation Plan, "describing the muthedulogy of the plan, was issued during the year.

Recreation resources in 64 counties bordering TeVA reservoirs have been investoried as in faid and water features, climate, vegetation, withing, and land inax. Recreation capability classification maps of these counties are being coordinated with various planning agencies, along with an analysis of recreation demands, supply, and need in these sectors.

The aunity, which will include long-range recreation land use plans, promous in he a subsable tool for state and local agencies as well as TVA in planning for future development of commercial, private, and minim recreation facilities.

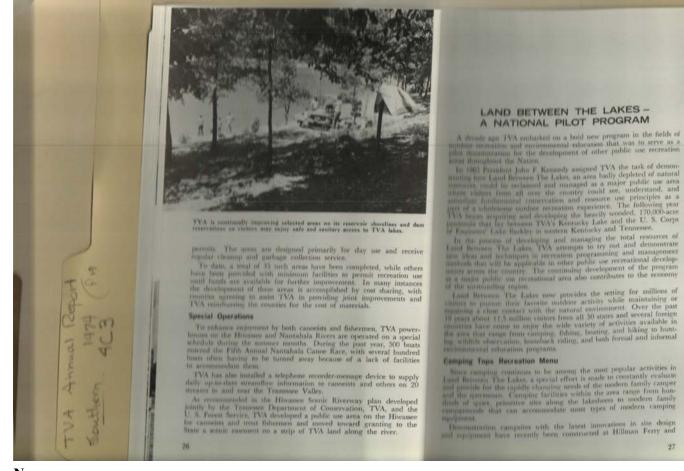
TVA has carmarked 18 sizes ranging in size from several acres up to a few humbrel arries to be set aside as Small Wild Areas, providing a plan where people can spend a few hours or a day observing wildlife, identifying birds, looking at native flowers, or relaxing in a completely memory aution. Development of these tracts will be restricted to an retermize parking lot, interior trails, and necessary signs. Stime's Woods on North Lador near Maynarthile, Tennessee, is the first TVA Small Wild Area to be developed.

TVA continues to improve selected areas on its reservoir shorelines and stam reservations to help assure safe and sanitary access to TVA iskes and to protect the land.

The neural facilities provided are picnic tables, grills, garbage cans, hundrhing ramps, samitary facilities, and a beach area where topography

25

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0094 Contents Image 15 Index About



Names:

Kennedy, John F., President

Types:

photo

Land Between the Lakes

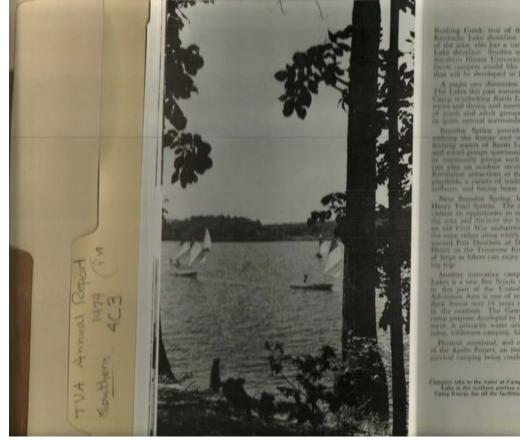
report

A NATIONAL PILOT PROGRAM

27

Shoreline Access

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0095 Contents Image 16 Index About



withing large family campgrounds along Priner Campground, in the southern por-tisty of norderin campaires along the Kentu or only being conducted in cooperation v or use determine what additional facilities of in Land Beweren The Lakes in

sension in camping was introduced in Land lie assessment with the upening of Brandon Spring of barris Lake. The new ramp provides modern of a meeting facilities and is available to a wide y groups increased in conducting outdoor pro-monanteurs.

ride range of rec Land Between 1 I nearby Lako Bar the handicapped inst Chizens or Li

and, and house beau any framing freeze. Alters can anjus the recently opened Fort re frait freezen. The development of this 26-mile system provides in an output only the suppr dis variety of plant and animal life in grant and dreamer the biotecnial significance of the Fort Henry site, and Greit Was anihaliteneous. The trait follows, wherever possible, summer takes alternet when the chemical theory Section Section and Forth Was anihaliteneous. The trait follows, wherever possible summer takes alternet when theorem of these Section to do in the section of the section of the section of the section to do in a series and Forth Fouriesen River. The trait system is laid out in a series up are labors can enjoy a short walk or plan a weekend backpack-an

er immentive camp resently opened in Land Between The a new Buy Remits of America High Adventure Area, the first int at the United Stars. The new camp called Gateway a Ana is new of seven national base camps designed to intro-ous may 14 years of age to new and challenging experiences subless. The Gateway camp, which is the first cooperative unsun developed by IBSA and any branch of the Federal Govern-ptionarity waits oriented and features boating, folding, swim-internation and reducational challenges are the focal points adia Printer, an innovative program in outdoor education and amping being renderted by Murray State University in Land

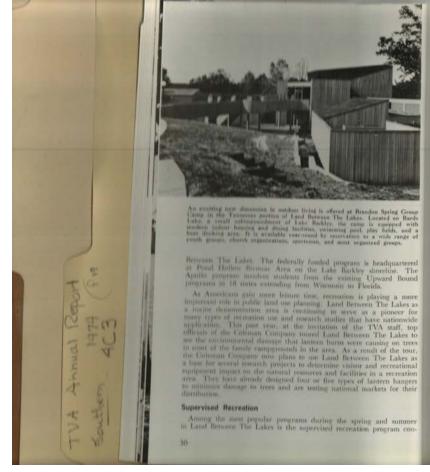
Compare take to the nature at Comp Energy, located on Energy Lake in the methern postion of Lond Reteveon The Lakes. Earny Energy fax all the facilities recently to accommodate groups of text campers.

Names:

Land Between the Lakes

Types:

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0096 Contents Image 17 Index About



at in the family comparison and group campa by college students institute in a vertex-such program. The program heips mesh proc-cupartions with enterestina it success as a training ground for max provestial in recention, unidoor enfocation, and resource memory. In 1074, 30 students representing 12 universities and response in the 1074, 50 students representing 12 universities and response in the students and students are program.

Arbitrary participation in the program. Arbitrary in the range participation of the entire family range from date merits themes to hange packing around the campires. Square dates, there interest programs, thus, and singularing also highlight the amplitude programs. In addition is the campiround programs, making complete interpretions programs for values to the Environmental relations around the market in machine and student workshops is interpretioned interpretion and the assist in the resource manage-ment programs, and assist in the resource manage-ment programs and the information office.

alls for National Conferences

Land Between The Lakes' doministration role in outdoor recreation of excitorionistic advecting is solected in the many national con-response and secondary that are faild in the area with representation on a well research of mix-pederal, and professional organizations.

Remembers devices that are held in the area with representation.
 Remembers an end water of anno Faderal, and professional expansions.
 Remembers and the same of the same of the product of the product of the same of the product of the prod

Environmental Education Major Program

As part of TVA's Valleyside effort in environmental education, a primeram has been developed in Land Between The Lakes which helps

31

Names:

Brandon Spring Group Camp

Types:

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States Image 18 r04c03-19-000-0097 Contents About Index



<text><text><text>

Heamurce Management

A final based removes inanagement program is a major cornerstone t all the mereational and educational programs in Land Between The also. About 85 percent of the area is forested, primarily in oak and neuropar hardwards. The forests are being managed by TVA to income percentional and environmental education opportunities for prime and to provide improved habitat for the many types of wildlife

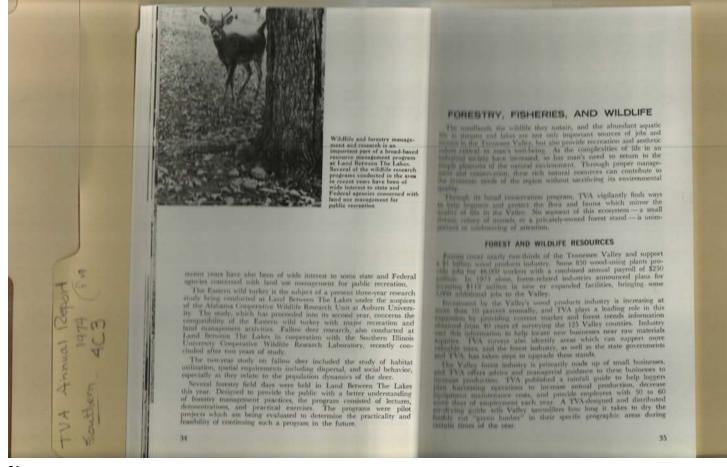
The search of the search program of the search of the sear

33

Names:

Archery Range **Types:**

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 19r04c03-19-000-0098ContentsIndexAbout

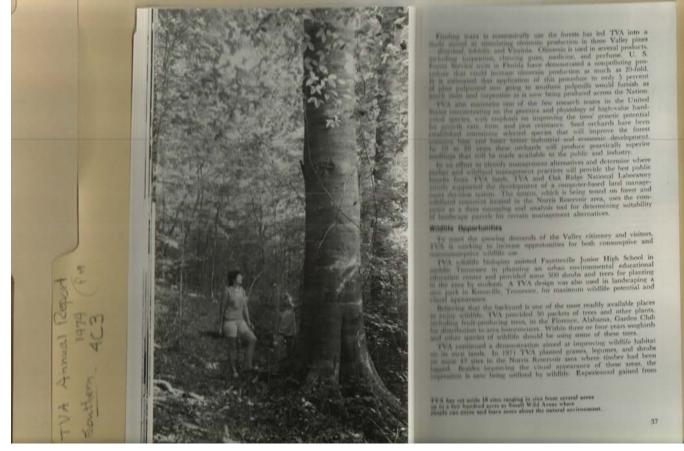


Names:

Forest & Wildlife Resources

Types:

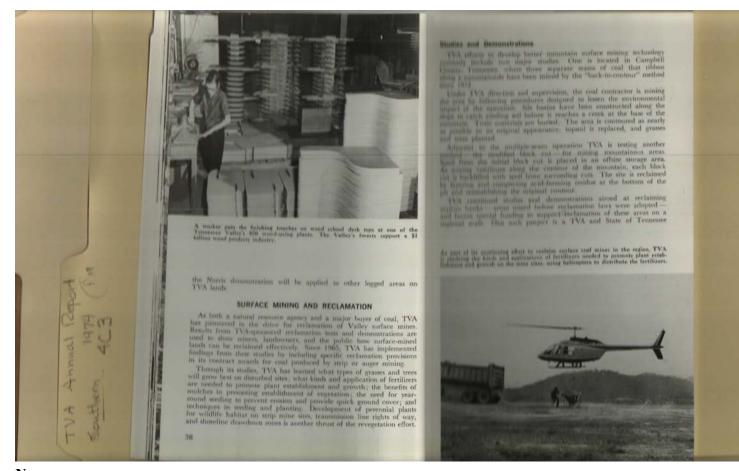
Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 20r04c03-19-000-0099ContentsIndexAbout



Names: Small Wild Areas

Types:

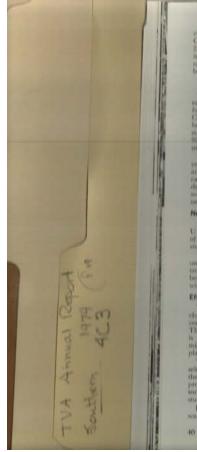
Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 21r04c03-19-000-0101ContentsIndexAbout



Names:

Surface Mining & Reclamation

Types:



cooperative effort aimed at rehabilitating Piney Creek in Van Buren Cronty, Termenses, serimally polluted by silt and acid drainage from 2/6 arres of orphan indface innes and 16 abandoned deep mines. TVA is funding the project and assisting the state in planning and develop-ment, with labor provided by a state rehabilitation center for juvenile been

FISHERIES

FIGURES The second s

Norris Trout Program

Bines 10:01 Program Bines 10:00, TVA, the Tennessee Wildlife Resources Agency, and the U. S. Flah and Wildlife Service have been conducting an investigation of the success of 14 years of trout stockings in a 14-mile stretch of the terr immediately below Norris Dan. The investigation includes a study of the fishery as reflected by angler mit, fishing success, fish harvest, fish growth, and economics. "Wild" term fishi that spaymed in the streams emptying into the river, have seen fisual and hiodogetis are encouraged that eventually these trout will supplement the atocked fish.

Effects of Heated Water Studied

Little of Heatest Water Studied TeX continued investigations of the impact of heated water dis-former on validitie from its 12 footil develop seem plant. Sampling is though the studies of the water temperature and fait habits. TAY is a studie of the water temperature and fait habits. TAY is a studie of the water temperature and fait habits. TAY is a studie of the water temperature and fait habits. TAY is a studie of the water temperature and fait habits. TAY is a studie of the water temperature and fait habits. TAY is a studie of the water temperature and fait habits. TAY is a studie of the water temperature and fait habits. TAY is a studie of the studies of the temperature and the studies water in the studies of the studies of the temperature is a studies of the studies of the studies of the studies is a studies of the studies of the studies of the studies water interactions of problems associated with water intake and heated is a studies of the studies of the studies include investigations of haved is a studies of the studies of the studies of the studies of the studies is a studies of problems associated with water intake and heated is a studies of the studies of the studies investigations of haved is a studies of the studies of the studies investigations of haved is a studies of the studies of the studies investigations of haved is a studies of the studies of the studies investigations of haved is a studies of the studies of the studies investigations of haved is a studies of the studies of the studies investigations of haved is a studies of the studies of the studies of the studies investigations of haved is a studies of the studies of the studies investigations of haved is a studies of the studie

Waterfowl

ful. Is addition to previding information that can be used in impact memory of proposed purposes on ful populations, these studies may domainly in used or presider full harvests.

WATERFOWL

WATERFORM. We this has an entrine while some of its hands for waterform in the first data in the some of the hands of the some of the hand in the results of the some of the hand in the results of the hand with the some of the

Resident Waterfowl

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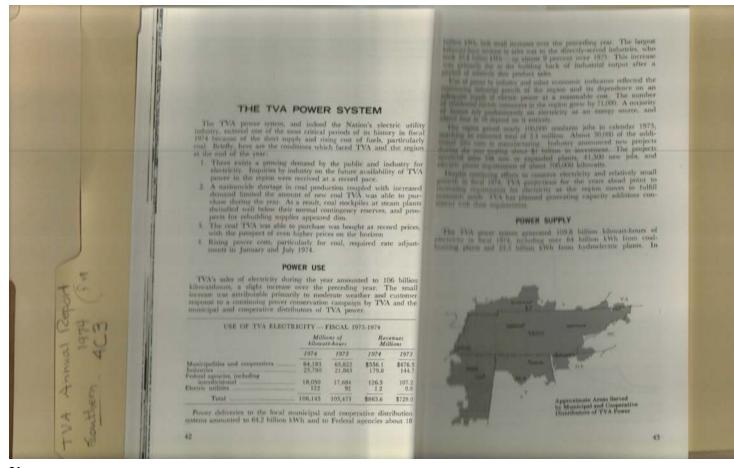
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Names:

Fisheries

Types: report

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 23r04c03-19-000-0103ContentsIndexAbout



Names:

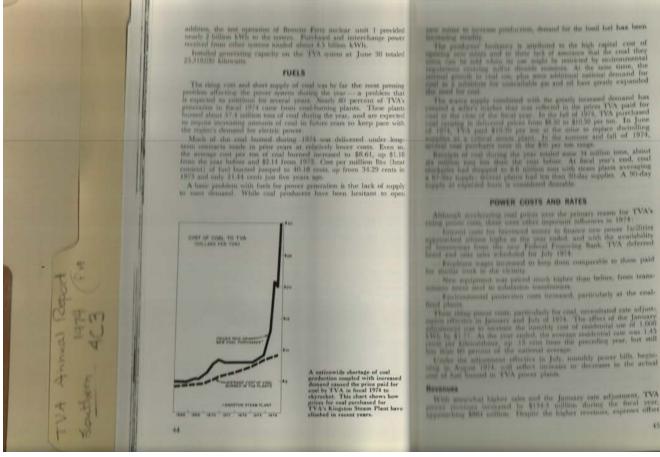
TVA Power Service Area

Types:

map

TVA Power System

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Names: Fuels

Types:

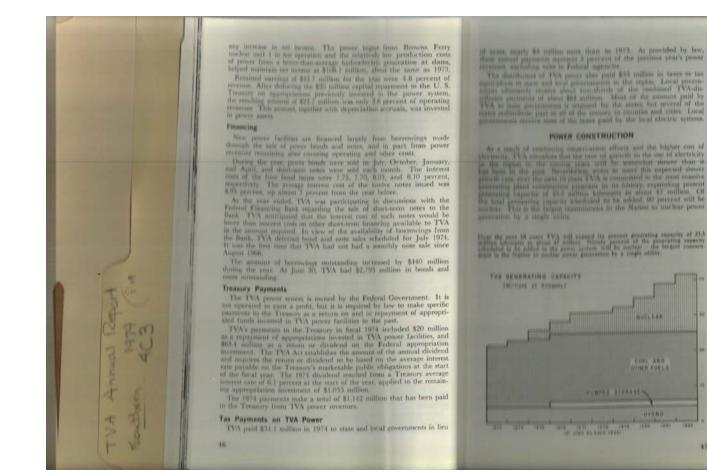
report

rem mains to increase production, doward for the fault had has been meaning benduin. The producted fueltance is assiluted in the high capital cost of spining and model to their lask of amorane that he could they winn can be held when its one only the remining the content of mining and and when its one of the remining the content of the remining and the short state of the second the excitation interaction of the rest of the second state of the second the mining and the rest of the second state of the second state of the second for rest.

With annesidat higher rates and the January rate adjunction, TVA means (economic increased to \$154.3 notifien during the fixed year, hyperstarting \$800 million. Despite the higher revenues, expenses offset

45

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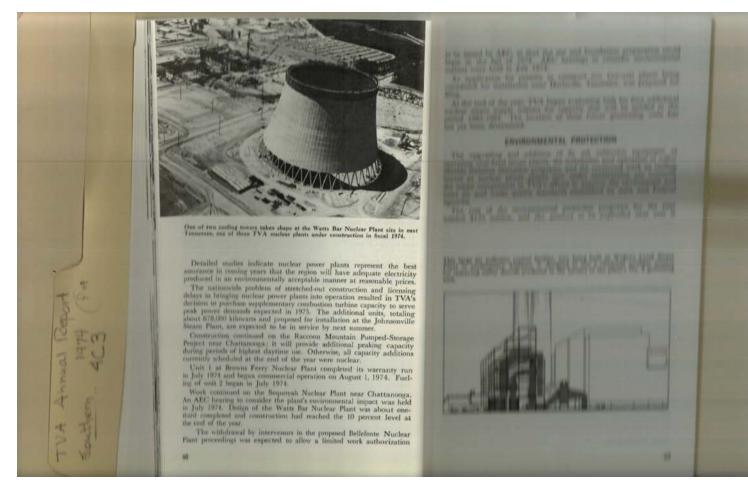
Names:

Power Construction

Types:

chart

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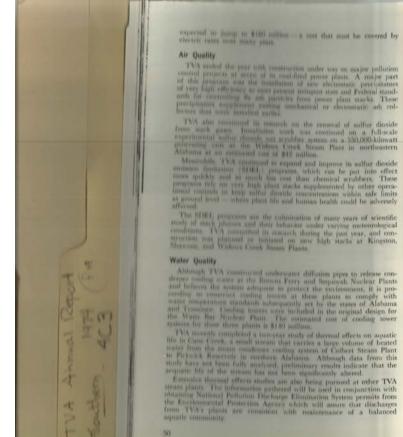


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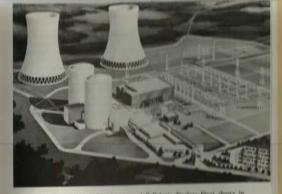
Watts Bar Nuclear Plant Site

Types:

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0107 Contents Image 27 Index About



expected to justify as \$100 million - a test that must be covered by electric rates near many many



This architect's rendering of TVA's proposed Bellafoute Nuclear Plant shows in the background two large cooling towars which will resplayement the plant's non-dunary water cooling systems to comply with state water temperature identified.

Construction also was continued on 12 large channels of a hiothermal research facility at Browns Ferry Nuclear Flant. There, under nearly natural stream conditions, TVA in cooperation with the Environmental Protection Agency will investigate the effects of different carefully em-rolled temperatures on various species of this and other appoint? Use The results of these studies should be useful in reevaluating present thermal standards.

thermal standards. In anticipation of new requirements being imposed on nonthermal discharges from power plants pursuant to the Enderst Water Politition Control Act Amendments of 1972, TVA is studying each of its plants and making plants for useh modifications as may be nerveasive to comply with these requirements when they are finally established.

POWER RESEARCH

Independently or in cooperation with nilnus, TVA has more than, 50 different energy-related rewark, and domonstration projects under way, aimed primarily at developing new energy sources, surveying fuck to more usable products, increasing system officiencies, and improving the environment.

the environment. TVA and the power distributors actively support the Electric Power Research Institute and are active participants with Commonwealth Editors Company of Chicago and the Atomic Energy Commission in building the Nation's first breeder reactor demonstration plant The Clinch River Breeder Reactor Plant will be built near Oak Ridge.

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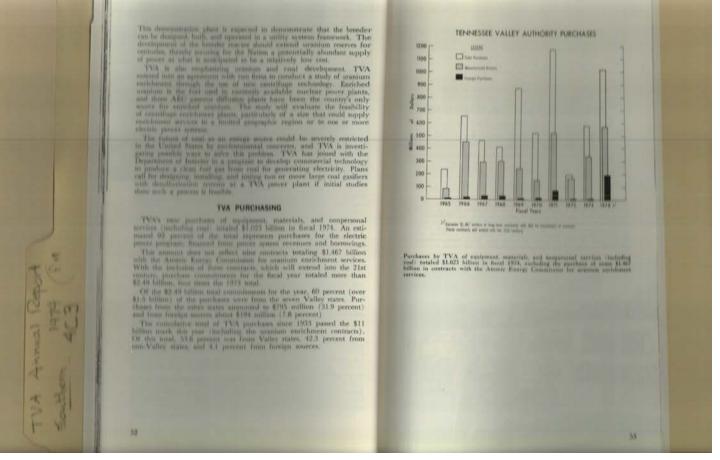
Names:

Bellefonte Nuclear Plant

Types:

drawing

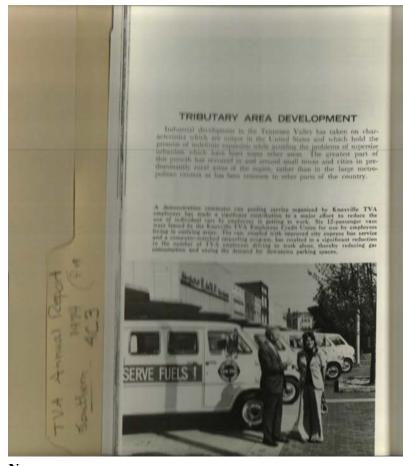
Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 28r04c03-19-000-0108ContentsIndexAbout



Names: TVA Purchases Types:

chart

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States Image 29 r04c03-19-000-0109 Contents Index About



Names:

Tributary Area Development

Types:

photo

report

This pattern of development creates new jub reportunities in a more that depense population growth rather than summerized in the providence of the second se

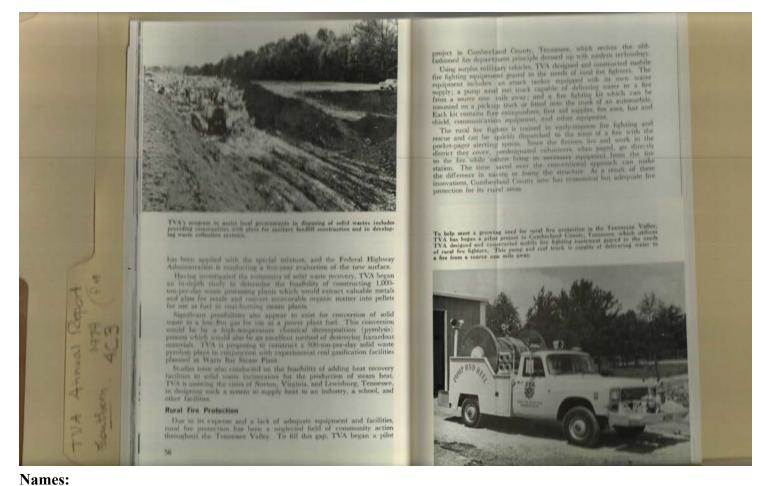
Waste Management Activities

The national problem Activities is compounded in the Transmee Valley with its line propriating of waster sometimes rough torvain, and below average insume. TVA, recogniting this problem must be solved if the region is to effort a quality of life conducive to economic and commonly arouth and descriptionent, embarked in 1969 on a program of providing which waste assistance in local governments.

boal gevernments.
So the past five years TVA has provided 14 plant for a five plant for years to be added to be adde

Anded its: A standard its: Marka four-year-old junk car collection domain and the solution in the solution of the solution o

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 30r04c03-19-000-0110ContentsIndexAbout



Rural Fire Protection

Solid Waste Disposal

Types:

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0111 Image 31 Contents Index About

Improving Services Through Computerization

As computer explorated is beaming more widely available in roral areas, asing officials in many formerly line-comming and laborious uncloses. TPA is applying more of its inclusion know-how to assist ocal governments in making the difficult transition in data processing by computer.

bedrageneration in making the difficult transition to data processing computer.
In some communities, TVA is assisting in feasibility endies which discrete the status of present data processing systems and the possible data computer system. TVA assisting the feasibility endies which discrete the status of present data processing to a separate graphere rempete sequence to process the same systems and the possible of the status of present data processing to a separate data processing to a sequence of the status of the sta

Administrative Assistance

A number of local eltirem and afficials have numed to TVA for technical assistance in establishing modern civil service systems tailored to note the specific mode of local governments. During the year, TVA developed a equiposited government mesit system anistance package for the city of Brownecht, Tennosse, which included a deal ordinance for us in adopting the system, juit survey information, pursoned practices, sample persuant forms, and job descriptions for all positions.

sample personnet fromo, and poir descriptions for all positions. TVA also worked with the Kores County Fersonnel Planning Com-mission on draft legislation and other the counters necessary for an effec-tive meril personnel system for the counters. Tuilahouna, Tennessee, requested TAA assistance on a programed exchange for a neetic system, and work was started on a miniplese personnel job classification and pay achedule requested by a western North Carolina planning and development commission.

Working with Youth

In numerons locations across the Valley, TVA's "Cash Crops for Youth" program experienced another successful year with 250 young participants. The program was startist in 1971 to provide high-school-aged young pergite with the approximative is grow farm crops and earn funds which could be used to help defray school expense. Most participants in the program san expense to earn between \$300 and \$1,500 for a summer's work growing a cash crop, but sometimes the



TVA's "Cash Grops for Youth" groups or eventions high actions age unual provide with the opportunity to given form cross and each founds which could be used to help defray school express. Along 256 young people parciaspated in the program during the part year.

total can be even higher, as evidenced by a \$3,300 public realised by an ER River area youngster in 1973. The average yield of 223.8 finduals of corn per acre was the second highest ever reconded in the state of Alabama.

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50

Names:

Cash Crops for Youth

641

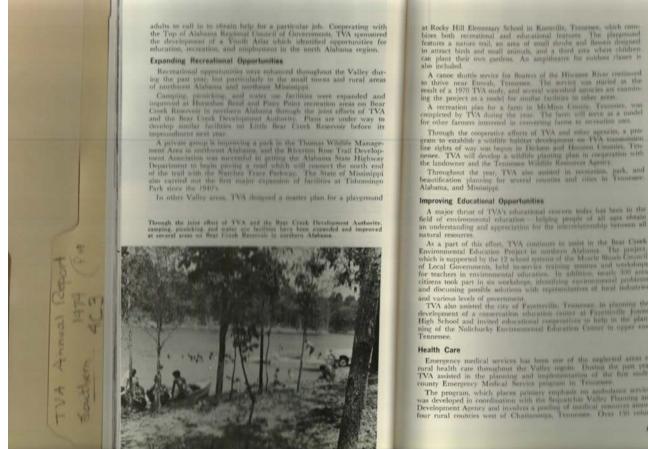
101

Types:

photo

1

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0112 Image 32 Contents Index About



Names:

Bear Creek Reservoir **Types:** photo

at Rocky Hill Elementary School in Knowsille, Tennessee, which com-bines both recreational and educational features. The playaround features a nature trail, an area of small shroks and Rowsee designed to attract birds and small animals, and a third area where children tan plant their own gardens. An amplifusate for muldow classes is able included.

Improving Educational Opportunities

A major thrust of TVA's educational concern today has been in the field of environmental education — helping propie of all ages obtain an understanding and appreciation for the intervisionative between all natural resources.

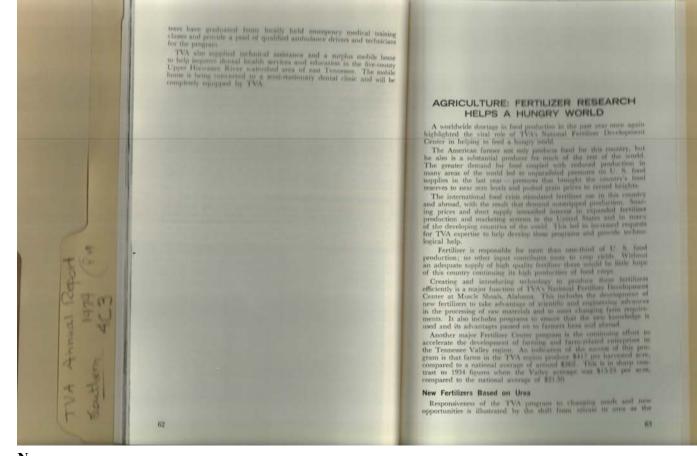
natural resources. As a part of this effort, TVA continues to assist in the Bast Creek Environmental Education Project in nurthern Aladiante. The project which is apported by the 12 closed systems of the Murcle Minesh Control of Local Governments, held inservice training semines and workshops for teachers in environmental education. In addition, nearly 100 area citizens took part in six workshops, identifying environmental problems and discussing possible solutions with septementatives of heral industries and various levels of environmental

and various levels of government. TVA also assisted the city of Fayreteville, Textussue. In planning the development of a conservation education restor at Payriteville Justice High School and invited educational responsibles to help in the plan-ning of the Kolichucky Environmental Education Contex in upper east Tennessee.

Emergency medical services has been one of the neglected areas of meral health care throughout the Valley region. Turing the just year TVA assisted in the planning and implementations of the fast multi-county Emergency Medical Services programs in Termanse The program, which places primary emploies no andminare anywise was developed in coordination with the Sequent the Valley Planning and Development Agency and involves a position of multicate murries four rural counties west of Chattanooga, Termanse. Deer 190 volume

111

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19Tennessee Valley Authority Annual Report, 1974 - Southern StatesImage 33r04c03-19-000-0113ContentsIndexAbout

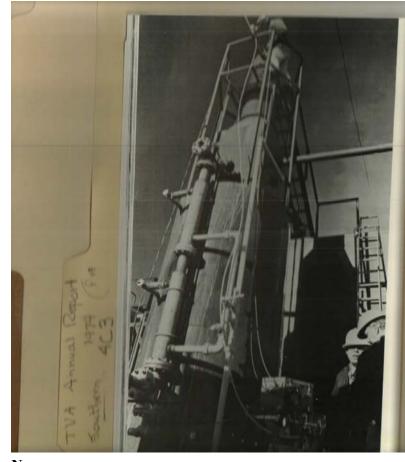


Names:

Agriculture Fertilizer Research

Types:

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States Image 34 r04c03-19-000-0114 Contents Index About



Names:

Fertilizer Development

Types:

photo

<text><text><text><text><text><text><text>

fertilizer. Advances were made in plott-plant uset of the production of suffer-coated urea (SCU), a new fertilize developed to release to ultrougen slowly to crops. Major emphasis was un parfection is huftmann spraying system that is simpler than the air atomating system previously used and that reduces suffue dust and miss problems. Efforts takes were made to determine the process constitutions measures to gat a good east with suffur alone. Although they release was entained with software the only coating agent, test showed that suffurence matimes were more resistant to freeze-thaw cycles. Other tests indicated that instru-generation of build be suffur-was missions. Find fertilizers.

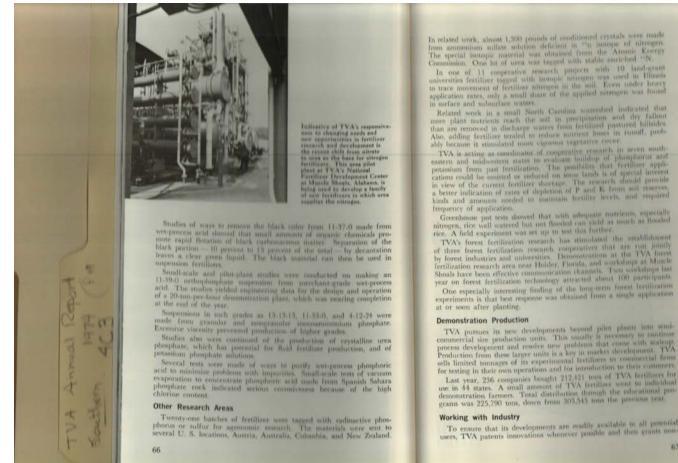
Fluid Fertilizers

Further modifications of the pipe reactor in the liquid fertilizer plant were tested. The most successful one was a water-resided, vertical resu-figuration with downward flow. Trais of the vertical reactor with low polyphosphate, black superacid shneed irrenting results. More reals will be made with a vertical reactor steed to produce about 15 mms per hour of 11-37-0 liquid fertilizer.

65

TVA engineers test for stack gas emissions on a algo reaster, a recent TVA process development for economical manufacture of fluid fertilizers.

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0115 Image 35 Contents Index About



Center

Names:

National Fertilizer Development

Types:

photo

TVA pursues its new developments beyond pilot plants into semi-commercial size production units. This usually is necessary to continue process development and resolve new problems that come with scalarge. Production from these larger units is a key in market development. TVA sells limited tomages of its experimental fertilizers to commercial firms for testing in their own operations and for introduction to their cutomers. Last year, 236 companies booght 212,421 tons of TVA fertilizer use in 44 states. A small amount of TVA fertilizer went to individual demonstration farmers. Total distribution through the educational pro-grams was 225,790 tons, down from 303,545 tons the previous year.

To ensure that its developments are readily available to all potential users, TVA patents innovations whenever possible and then grants non-

111

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Names:

TVA Educational Programs

Types:

map

exclusive licenses for their use. Twenty-two licenses were granted draving the year for use of the pipe reactor process for making high-polyphosphate liquid fertilizer from wet-process superacid. This brought to 571 the total number of licenses issued. They have gone to 315 companies for use in 506 plants in 39 states.

total number of licences issued. They have gone to 315 comparises for the in 306 plants in 39 states.
 New processes must be proved before commercial preducers will invest large sums to begin producing them. Some of that proof is obtained in plotoplant operations. But results in TVA's larger plants are more meaningful because they are more comparable to what might be expected in practical manofacturing operations.
 Terres and this is one of the reasons why TVA makes them available process, and this is one of the reasons why TVA makes them available on practical manofacturing operations.
 Terres and the size of the reasons why TVA makes them available process, and this is one of the reasons why TVA makes them available on the size of the reasons why TVA makes them available on the size of the reasons why TVA makes them available on the size of the reasons why TVA makes them available of the size of the size of the reasons why the reasons that doubled, with 61 comparison with 55,000 tons.
 Terres induling pollution control. Stottions worked out for one plant takes the Makel Shoak to keep current on developments and to halp solution and the size of the reasons are also the one plant takes to Makel Shoak to keep current on developments and to halp solution works to keep current on developments and to halp solution works the size or size and undevelopments and to halp solution works the size of the reasons are the size of the theorem the size of the reasons and the trans-son and herbitake were sitended by more than toth industry represe at herbitage technology and matching seminars held in ferea-kansas and Nebraaks were sitended by more than toth industry plants and why advects and processes, adding universition, and hereal verse is an expreduction and nearbeiting seminars and its hereal matrix to belends, the fertilizer sample current on developments.

analysis. Interse interest was shown in TVA's compilations of fertilizer market-ing statistics and hundreds of copies of publications summarizing pres-pective production capabilities and future demand were detributed. A theoretical assessment of the potential for marketing suffure acid that might be produced from suffur recovered from the stack gases of coal-fired power generating plants was made in another study. It sug-gested that the potential net recover above distribution cosis was great enough that this alternative should be considered in any suffur abase. Mother study is aligned at advances fortilizer parametering technology.

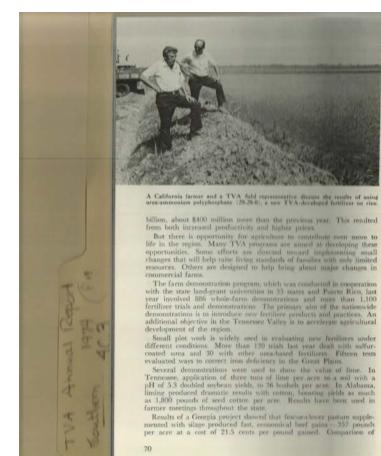
Another study is aimed at advancing fertilizer management technology by using computers to select the best rates and routes of shipment. The system worked well on a small scale this year. With further develop-ment it should benefit both TVA and the commercial fertilizer industry.

WORKING WITH FARMERS

Agriculture is one of the most important actions of the Tennessee Valley economy. Sales of farm products in 1973 were estimated at \$1.5

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Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0117 Image 37 Contents Index About



fertilized and unfertilized 80-acre pastures in Montana showed that the fertilized pasture produced three to five times as much beef.

Introduct and unrefluent Boards patients in Monthina showed that the fertilized pattere produced three to five times as much bed.
Dairy farmers in Poerto Rice are denominating the value of heavy applications. One finding is that forcage present content is higher with more frequent harvest. As a reads fields are "graned down" in a week or least and then given a 23-day recovery priod. Forcage managed this way contains 15 to 20 percent priod for argument angle of the standard base for the standard base of the standard base for the standard base of the standard base for the standar

Special Valley Development Projects

Special Valley Development Projects Rapid adjustment (RA) farms are continuing to point the way to improved Valley agriculture. Thus farms, which are analyzed in depth by university specialists and programmed for fast chanse, are especially effective in evaluating new practices and new combinations of enter-prises in practical operations. Professional workers there use the results in programs with other farmers. Bighty-nine farms have completed the program since it was begun in 1961. On the average, gross income increased 79 percent and net farm income 89 percent during four program yards, with most of the gain in income from livestock. Thirty-five farmers were active in the program at the end of last year. More than 300 home garden demonstrations were conducted last

at the end of last year. More than 300 home garden demonstrations were active in the program year among low-income roral families. This project offers an oppor-tion to teach families some basis of ford and nutrition and supplies an average investment of \$22.64 produced \$305.50 worth of segetables. Long-lasting benefits, of course, can be realized only if families con-tinue what they learn from the demonstrations. A check in Kentucky showed that 11 of the 12 families with demonstration gardens in 1974. Therefy-two other ways in 1974. Therefy-two other Kentucky families participated in the garden demonstration program for the Frograms were also been be

Programs were also begun in sis states to develop new enterprises, and opportunities on farms with limited resources. Without special assistance, many of these people have little hope for a hence lite because of advanced age, little education, and few marketable skills

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Names:

Fertilizer Development

Types:

Frances Cabaniss Roberts Collection: Series 4, Subseries C, Box 3, Folder 19 Tennessee Valley Authority Annual Report, 1974 - Southern States r04c03-19-000-0118 Image 38 Contents Index About



Names:

Waste Heat Uses

Types:

photo

On another front, TVA is testing a greenhouse system for in-part from power generating plants to grow high quality pri-tomators and caronhers. The system, which uses warms of the stand each has worked satisfactorily in a plat gr-Music's floads. Perliminary results indicated possibilities f atom, which might reduce investment coats. A field experiment with a platic greenhouse and will be fidicated good potential for early and lare many products to plants. The basing cables simulated the use of varm co-form power plants. In test soutiable the greenhouse, will beat arrow growth of cotton, corn, and unplants, but only enten increased.

Reperiments indicate it should be practical in grow different cro-n regraded strip-mined land in northeast Alahama. Over the past rars, both cool: and warm-season grasses produced good yields.

years, both cool, and warm-season grasses pundated good yields. Grape vines and apple trees planned in the spring of 1073 on re-inted land continue to show good growth. Tuffications are that con-applications of mitrients, especially nitrogen, and possibly ad-organic matter, will be needed. Management of animal watters is becoming more important Valley's livestock industry continues to grow, and alternatives are scanniced in several project. TVA is working with an Alabaras p farmer on disposal of watters from a 6 GOOR-layer operation. The goes first to a lagoon and then is applied to crep land by irri The soil is sampled to dimension the effect on fertility levels.

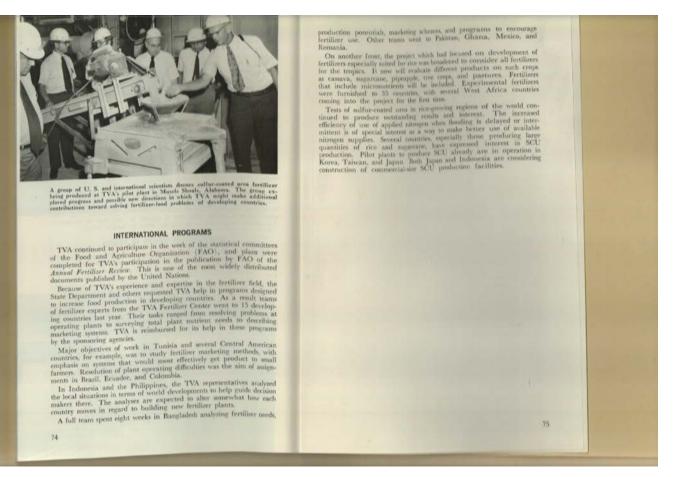
AGRIBUSINESS GROWS IN REGION

 AGRIEUSINESS GROWS IN REGION

 Tarmerlated business continues to grow to serve the growing of the region. A survey of 15 north Alakama countres sing and 1972, 65 served 25 general, sales of 779 augustances for 1972 and 1982, 65 served 25 general sales of 779 augustances for 1972. Analysis of the theme planned to expand products in 1972. Nearly half of the firms planned to expand products in 1972, served 31 million investment with a 51 million aways of the production at Decaure, Alakama products in the longer of this growth is the huge nophera products in the survey extraction plant.

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Names:

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Fertilizer Development

Types:

photo

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Frances Cabaniss Roberts Collection

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Collection Scope and Content: The Collection of 114 Linear ft. includes a total of 156 Archival Boxes. The Frances Cabaniss Roberts collection covers the historical records of the Cabaniss Roberts family. This collection contains extensive correspondence records of the Cabaniss Roberts family circa 1830 to 1930.

Archives/Special Collections Access Restrictions: None

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