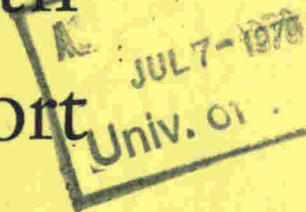


Eighty-Eighth
Annual Report

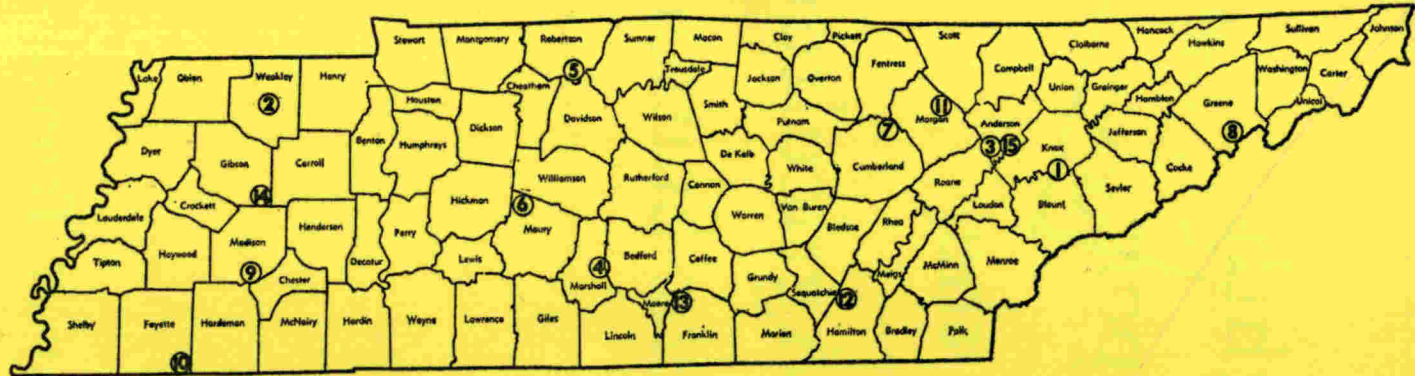
of the

Tennessee Agricultural
Experiment Station
1975

The University of Tennessee
Knoxville



THE UNIVERSITY OF TENNESSEE AGRICULTURAL EXPERIMENT STATION



- 1 Main Station**
- 2 University of Tennessee at Martin**

Branch Stations

- 4 Dairy Experiment Station**
- 5 Highland Rim Experiment Station**
- 6 Middle Tennessee Experiment Station**
- 7 Plateau Experiment Station**
- 8 Tobacco Experiment Station**
- 9 West Tennessee Experiment Station**

- 3 UT Energy Research and Development Administration Comparative Animal Research Laboratory**

Field Stations

- 10 Ames Plantation**
- 11 Cumberland Forestry Field Station**
- 12 Friendship Forestry Field Station**
- 13 Highland Rim Forestry Field Station**
- 14 Milan Field Station**
- 15 Oak Ridge Forest and Arboretum**

Eighty-Eighth Annual Report 1975

Tennessee Agricultural Experiment Station

Edward J. Boling	President of the University
Webster Pendergrass	Vice President for Agriculture
E. J. Chapman	Assistant Vice President for Agriculture
John A. Ewing	Dean
D. M. Gossett	Assistant Dean
T. J. Whatley	Assistant Dean

The University of Tennessee
Knoxville

LETTER OF TRANSMITTAL

Knoxville, Tennessee
January 2, 1976

To His Excellency, Ray Blanton
Governor of Tennessee:

SIR: I have the honor of transmitting herewith, on behalf of the Board of Trustees of the University of Tennessee, a report of the work and expenditures of the Agricultural Experiment Station for the year 1975.

This report is submitted in accordance with the law requiring that such a report be submitted annually by the administrators of the Experiment Station to the Governor of the State.

Respectfully submitted,
Edward J. Boling, President

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The Eighty-Eighth Annual Report of the Tennessee Agricultural Experiment Station 1975

Foreword

Included in this report are listings by departments of the following information:

- 1) Research projects active as of December 31, 1975;
- 2) Research projects terminated during the calendar year 1975;
- 3) Bulletins, articles, and reports prepared by Experiment Station staff members and published during the calendar year 1975.

In addition, this report contains the financial statement for the Agricultural Experiment Station covering the period July 1, 1974 to June 30, 1975. Also included is a list of the Experiment Station personnel for the calendar year 1975.

Active Projects

As of December 31, 1975, there were 157 Hatch projects and 16 State projects. Hatch projects are supported in part with Federal-Grant funds made available by Congress to the Agricultural Experiment Stations of the country under the Hatch Act Amended. State projects are supported entirely by University funds.

In addition, there were 11 McIntire-Stennis and 7 University of Tennessee-Energy Research and Development Administration projects, and 2 CSRS projects.

The headquarters of the Tennessee Agricultural Experiment Station is located on the agricultural campus of the University of Tennessee at Knoxville. The UT-Comparative Animal Research Laboratory is located some 20 miles distant at Oak Ridge, Tennessee. In addition, there are other research centers which represent soil and climatic conditions in the major regions of Tennessee. These other research centers are listed at the end of this report, and their locations are shown on the inside front cover.

Many of the projects involving studies of soils, crops, and livestock may include experimental work at one or more of the outlying stations as well as at the Main Station at Knoxville.

Hatch 438 (S-74)	Ecology, Bio-Economics and Management of Arthropod Pests of Soybeans.
Hatch 440	Pest Management of Vegetable Insect Pests.
Hatch 455	The Effects and Control of Ectoparasitic Nematodes and Associated Root-Inhabiting Fungi on Tomatoes, Soybeans and Corn.
Hatch 468 (S-105)	Host Plant Resistance in Cotton to Insects, Mites, Nematodes and Diseases.
Hatch 469 (S-76)	Nature and Extent of Variation in Root-Knot and Cyst Nematodes.
Hatch 472	Control of Target-Insect Pests on Vegetable Crops.

Projects Concluded in 1975

Hatch 98	A Study of the Life History and Means of Control of Insects that Affect the Growth of Cotton.
Hatch 138	Biology, Pathogenicity, and Control of Plant Parasitic Nematodes.
Hatch 299 R	Biology and Ecology of House Dust Mites.
Hatch 315 (S-76)	Nature and Extent of Variation in Root-Knot and Cyst Nematodes.

Bulletins, Articles, and Reports—1975

Chambers, A. Y.

Bean, (lima) (*Phaseolus lunatus*) Stem Anthracnose; *Colletotrichum truncatum*. American Phytopathological Society, Fungicide and Nematicide Tests, Results of 1974, 30:59-60, 1975.

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Spring and Summer Ectoparasites. Beef Cattle Time, 1(4):2-3, University of Tennessee Agricultural Extension Service, 1975.

Hamon, A., P. L. Lambdin, and M. Kosztarab

Eggs and Wax Secretion of *Kermes kingi*. Annals of Entomological Society of America 68(6):1077-78, 1975.

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Chemical Control of Snap Bean Rust. Tennessee Farm and Home Science Progress Report 93, March 1975.

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- Lambdin, P. L., and M. Kosztarab
A New Genus *Abditicoccus* (Homoptera: Coccoidea: Asterolecaniidae) with a Redescription of Its Type Species *A. acaciaea* (Brain). Annals of Entomological Society of America 68(2):316-318, 1975.
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Ring Nematodes Increase Development of Bacterial Cankers in Plums. Phytopathology 65:556-559, 1975.
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Soybean Cyst Nematode Control. University of Tennessee Agricultural Extension Service Publication 702, 1975.
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Cotton Diseases and Their Control. University of Tennessee Agricultural Extension Service Publication EC 809 (Revised), 1975.
- Pendergrass, J. E., and G. Lentz
Soybean Insects and Their Control. University of Tennessee Agricultural Extension Service Publication 705, 1975.
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Cotton Insect Control 1975. University of Tennessee Agricultural Extension Service Publication 387, 1975.
- Reed, H. E., and A. Y. Chambers
Barley (*Hordeum vulgare*) Loose Smut; *Ustilago nuca*. American Phytopathological Society, Fungicide and Nematicide Tests, Results of 1974 30:130, 1975.
- Reed, H. E., and A. Y. Chambers
Wheat (*Triticum aestivum*) Leaf Rust; *Puccinia rubigo-vera tritici*, American Phytopathological Society, Fungicide and Nematicide Tests, Results of 1974 30:109, 1975.
- Reed, H. E., and A. Y. Chambers
Barley Loose Smut Control with Chemical Seed Treatments. Phytopathology Fungicide and Nematicide Tests Results of 1974 30:130, 1975.

Projects Concluded in 1975

Proj. No.	Research Project Titles
Hatch 303	Regional Income and Employment Effects of Investments in Natural Resources (contributing to Regional Proj. S-71).
Hatch 304	Market Organization, Power, and Policies and Programs in the Dairy Industry (contributing to Regional Proj. SM-40).
Hatch 326	Factors Affecting Utilization and Expansion Potential for Ornamental Plants and Turf (contributing to Regional Proj. SM-44).
Hatch 365	Evaluation of Vocational Training for Rural People.

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Non-Residential Landscaping in the South. Southern Cooperative Series Bulletin 195, Alabama Agricultural Experiment Station, 1975.
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An Evaluation of Environmental Quality: Opportunity Costs of Channelization and Land Use Change in the Flood Plain of the Obion-Forked Deer River Basin of West Tennessee, Agricultural Experiment Station Bulletin 552, 1975.
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Purchase Patterns for Landscape Nursery and Related Products by Apartment Owners in the Southeast. Florida State Horticultural Society 87:533-537, 1975.
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The Productivity of Agricultural Research and Extension Expenditures in the Southeast. Southern Journal of Agricultural Economics, Vol. 7, 1975.
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Brooker, John R.

Economics of Valley Greenhouses. Proceedings: Tennessee Valley Greenhouse Vegetable Workshop Bulletin Y-94. p. 5, 1975.

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Economic Impact of Federal Marketing Orders—The Florida Winter Tomato Case. Southern Journal of Agricultural Economics 7(2):7, 1975.

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Rural Development from a Decision-making Perspective. International Development Review 11(2):12-16, 1975.

Deaton, Brady J., and Larry C. Morgan

Psychic Costs and Factor Price Equalization. Southern Journal of Agricultural Economics 7(1):233-238, 1975.

Deaton, Brady J., B. R. McManus, J. R. Brooker, and D. R. Humberd

Policy Considerations for Commercial Agriculture and Rural Development. Agricultural Experiment Station Bulletin 540, Agricultural Experiment Station, University of Tennessee, 1975.

Deaton, Brady J., and S. D. Mundy

Real Property Taxes and Farm Real Estate Values: Comment. American Journal of Agricultural Economics 57(1):125-126, 1975.

Deaton, Brady J.

The Community Development Corporation: A Development Alternative for Rural America. Growth and Change 1:31-37, 1975.

Dubov, Irving

Planning Comprehensive Health Care Systems for Rural Areas. Proceedings: International Conference on Progress and Prospects in Health Care Distribution Systems 2:54-58, 1975.

Dubov, Irving, and Gerald E. Smolen

Costs of Solid Waste Management in the Knoxville, Tennessee Metropolitan Area. Tennessee Agricultural Experiment Station Bulletin 550, 1975.

Klindt, Thomas H., and Leo J. Guedry

The Economic Impact of Agricultural Production in a Rural Economy. Louisiana Agriculture, Vol. 18, p. 2, 1975.

Klindt, Thomas H., and Leo J. Guedry

The Effects of Output Increases on Employment in Assumption Parish. Louisiana Rural Economist, Vol. 37, p. 4, 1975.

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Economic Impact of Agricultural Production in West Carroll Parish. DAE, Research Report 485, Louisiana State University, Department of Agricultural Economics, 1975.

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Grain Movements Between Southern and Corn Belt States. Southern Cooperative Series Bulletin 209, Auburn Agricultural Experiment Station, 1975.

Sappington, Charles B., L. D. Hill, and E. D. Baldwin

Spatial Price Differentials for Corn. Southern Cooperative Series Bulletin 196, Tennessee Agricultural Experiment Station, 1975.

Trevena, Billy J.

The Rapid Increase in Retail Food Cost: 1972-1974 Who Benefited? Tennessee Farm and Home Science Progress Report 94, June 1975.

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Hatch 294	Engineering Systems for Cotton Production (contributing to Regional Proj. S-69).
Hatch 333	Evaluation and Improvement of Low-Cost Rural Housing in Tennessee; cooperative with the Agricultural Economics Department.
Hatch 362	Transportation and Temporary Storage of Tennessee Vegetables Between Harvesting and Processing; cooperative with the Food Technology and Science Department.
Hatch 363	Machinery for Harvesting Fruit and Pod Vegetables; cooperative with the Food Technology and Science and Plant and Soil Science Departments.
Hatch 366	Measurement of Standard Cotton Fiber Properties.
Hatch 379	Development of Compatible Erosion-Control Practices and Machinery Systems; cooperative with the Plant and Soil Science Department and The University of Tennessee Water Resources Research Center.
Hatch 424B	Management of Runoff and Effluent from a Dairy; cooperative with the Animal Science Department, Plant and Soil Science Department, and Dairy Experiment Station.
Hatch 432B	Alternative Systems of Swine Production; cooperative with the Animal Science Department, Plant and Soil Science Department, Agricultural Economics Department, and Ames Plantation.
Hatch 441	Animal Waste Treatment and Recycling Systems; cooperative with the Animal Science and Plant and Soil Science Departments (contributing to Regional Proj. S-89).
Hatch 445	Minimizing Energy and Labor in Harvesting and Curing Air-Cured Tobacco; cooperative with the Plant and Soil Science Department.
CSRS-TN 316-15-92	Optimizing Cotton Tillage; cooperative with the Plant and Soil Science Department.
State 66	Machines for Low-Cost Hay Making on Small Farms; cooperative with the Plant and Soil Science and Animal Science Departments.
State 75	Electrical Equipment for the Treatment of Water; cooperative with USDA.

Projects Concluded in 1975

Hatch 204	Factors Affecting Water Yields from Small Watersheds in Tennessee; cooperative with the Plant and Soil Science Department, Comparative Animal Research Laboratory, and Soil Conservation Service (contributing to Regional Proj. S-53).
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- Hatch 338 Reducing Labor and Costs in the Dark-Fired Tobacco Harvest-Curing Operation; cooperative with the Agricultural Biology Department.

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- Baxter, D. O., B. J. Bearden, J. J. McDow, and J. T. Miles
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Analysis of the Problem. *In*: Instrumentation and Measurement for Environmental Sciences, American Society of Agricultural Engineers SP-375, pp. 1-4, 1975.

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Changes in Cotton Fiber Properties Caused by Three Sodium Hydroxide Concentrations at Three Temperatures. Textile Research Journal 45(1):76-79, 1975.

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Response. Textile Research Journal 45(11):814-815, 1975.

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A 5-Year Comparison of Seedbed Preparation Systems for Cotton on Memphis and Collins Silt Loams. Tennessee Farm and Home Science Progress Report 92, December 1974.

Pile, Robert S., J. B. Wills, and John I. Sewell

Effects of Furrow Irrigation with Water and Dairy Manure Slurry on Corn Yield. Tennessee Farm and Home Science Progress Report 93, March 1975.

Ramey, H. H., W. R. Meredith, and R. R. Bridge

Determination of Yield, Yield Components and Fiber Properties as Influenced by Selective and Nonselective Samplings. Crop Science 15(3):432-435, 1975.

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ANIMAL SCIENCE

Proj. No.

Research Project Titles

- | | |
|----------|---|
| Hatch 61 | The Improvement of the Producing Ability of Beef Cattle; cooperative with the Aluminum Company of America (contributing to Regional Proj. S-10). |
| Hatch 92 | The Effects of Maximum Selection Pressure for Milk Production on Rate of Improvement in Production and Its Effect on Other Dairy Cattle Traits (contributing to Regional Proj. S-49). |

Hatch 155	The Influence of Light Upon Performance of Domestic Chickens.
Hatch 268	The Identification and Control of Factors Affecting Reproductive Performance in the Bovine Female.
Hatch 284	Factors Affecting the Rate of Genetic Improvement of Dairy Cattle.
Hatch 297	Feed Requirements for Growth of Heifers.
Hatch 298	Bovine Mammary Gland Development During Gestation and Initial Stages of Lactation.
Hatch 300	Role of the Ultimobranchial Gland in Avian Osteoporosis.
Hatch 306	Breeding Methods for Beef Cattle in the Southern Region; cooperative with the U.S. Department of Agriculture (contributing to Regional Proj. S-10).
Hatch 307	Efficiency of Beef Production—Amount of Variation and Criteria for Improvement.
Hatch 310	The Relationship of Body Length to Economically Important Traits in Meat Type Swine.
Hatch 317	Feeding Programs for Maximum Efficiency and Optimum Body Composition in Meat Type Swine.
Hatch 323	Relationship Between Properties of Southern Forages and Animal Response.
Hatch 339	Mineral Studies in Large Animals Using Radiation and Radioisotope Tracers.
Hatch 342	The Mineral Nutrition of Egg-Production-Type Laying Hen.
Hatch 345	Management of Pastures for Beef Cow Herds.
Hatch 347	Evaluation of Pasture Mixtures and Pasture Management Practices for Beef Production.
Hatch 371	Stress and Laying Hen Performance.
Hatch 390	Micro and Macro Elements in Animals.
Hatch 424A	Dairy Waste Management Systems.
Hatch 432A	Alternative Systems of Swine Production.
Hatch 433	Pre- and Post-Weaning Management of Beef Calves.
Hatch 449	Reproductive Efficiency in the Bovine Male.
Hatch 456	Etiology and Prevention of Hypomagnesemia in Ruminants.
Hatch 457	Complete Feed Rations Using Home Grown Forages for Dairy Cattle.
Hatch 458	Photoperiods and Poultry Diseases.
Hatch 459	Efficiency of Beef Production of Different Size Cows Giving Different Amounts of Milk on Different Quality Pastures.
Hatch 460	Effect of Initial Weight and Winter Feeding Level of Subsequent Performance of Slaughter Beef Heifers.
Hatch 461	Maximum Utilization of High Quality Forages for Dairy Cattle.

Hatch 462	Winter Feeding "Dry" Brood Cows for Efficient Beef Production.
Hatch 463	Improvement of Reproductive Performance in Cattle.
Hatch 471	Development of Improved Feeder Calf Classification Procedures.
State 1	Random Sample Testing of Chickens Available to Tennessee Poultrymen.
State 2	Swine Testing and Evaluation.
State 42	Beef Cattle Improvement.
State 59	Bull Evaluation.
State 79	"Exotic Breeds" of Sheep to Increase Lamb Production in Tennessee.
State 80	Variation in Appetite of Angus Heifers Differing in Growth Pattern.

Projects Concluded in 1975

Hatch 52	Pasture Mixtures and Pasture Management Systems for Beef Production.
Hatch 71	Factors Affecting Feed Utilization by Ruminants.
Hatch 72	Evaluation of Roughages for Beef Cattle.
Hatch 161	Efficient and Economical Use of Forages in Dairy Cattle Rations.
Hatch 218	Performance of Beef Cows as Affected by Initial Winter Condition and Level of Winter Feeding.
Hatch 233	The Nutrition of Egg-Production-Type Chickens.
Hatch 266	Ovarian Germ Cell Complement and Reproductive Capacity in Beef Cattle.
Hatch 321	Hypomagnesemia Relationships to Grass Tetany in Ruminant Animals.
Hatch 325	Endocrinology of Reproduction in Cattle.
Hatch 351	Effect of Silage Quality on the Performance of Slaughter Animals.
State 3	Effects of Fluorine Levels of Soil and Water on Grazing Cattle Under Different Systems of Management.
State 55	Placental Transfer of Minerals in Farm Animals.
State 67	Feeding Floor System Effects Upon Performance on Beef Animals.
State 71	Criteria for Allotment of Feeder Calves into Uniform Slaughter Outcome Groups.

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|-----------|--|
| Hatch 354 | Assessment of Family Functioning in Rural Areas of Tennessee. |
| Hatch 405 | Vocational and Educational Aspirations of Rural School Children and Their Mothers. |

FOOD SCIENCE, NUTRITION, AND FOOD SYSTEMS ADMINISTRATION

Proj. No.

Research Project Titles

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|-----------|--|
| Hatch 314 | The Effect of Nutrition on Biological Aging in the Rat. |
| Hatch 353 | Non-Oxidative Reactions of Meat Lipids During Heating and Their Relation to Cooked Meat Quality. |
| Hatch 355 | Effect of Sulfur on Neutral Sulfur Metabolism. |
| Hatch 361 | Chemical and Physical Characteristics of Muscle Foods as Affected by Heating and Freezing. |
| Hatch 384 | Patterns of Food Intake and Nutritional Health of Girls. |
| Hatch 396 | Effect of Stress on Sulfur Metabolism. |

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Hatch 173R	Enterococci in Nonsterile Foods.
Hatch 193	Enzymes as Related to Chemical and Physical Characteristics of Vegetables for Freezing.
Hatch 282R	Studies on the "Lacks Freshness" Flavor of Cottage Cheese.
Hatch 374	Development and Improvement of Vegetable Products and Processing; Quality Factors of Cultivars.
Hatch 376	Food Color Identification, Notation, and Amelioration with Natural Compounds.
Hatch 387	Combined Enzymatic-Extraction Procedure for Protein Recovery from Selected Crops and Food Wastes.
Hatch 391	Quality and Shelf Life of Food Products in the Marketing Channels.
Hatch 393	Flavor Precursors in Protein Concentrates and Isolates.
Hatch 394	Histological and Histochemical Relationships of Muscle to Meat Quality and Cutability.
Hatch 397	Characterization and Treatment of Tennessee Food Processing Wastes.
Hatch 436	Influence of Milk Processing Upon Biological Availability of Xanthine Oxidase.
Hatch 437	The Influence of Processing Factors on Dry-Cured Ham Quality.
Hatch 448	Safety Evaluation of Raw and Processed Foods.
Hatch 452	Use of Protein Isolates and Vegetable Fats in Manufactured Meat Products.
Hatch 453	Utilization of Acid Cheese Whey for Food Products.
State 73	Pesticides in/on Raw and Processed Foods.

Projects Concluded in 1975

Hatch 356	Development of a Product Prototype for the Utilization of Cottage Cheese Whey.
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- Hatch 375 Fibrous Protein from Cheese Whey.
 Hatch 389 Toxigenic Fungi Evaluation of Selected Crops.

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| Hatch 102 | Forest Management. |
| Hatch 107 | Relationship of Soil and Other Site Factors to Forest Com-
position and Productivity. |
| Hatch 207 | Forest Tree Fertilization; cooperative with the Hiwassee
Land Company. |
| Hatch 271 | Forest Tree Breeding. |

Hatch 470

(S-23)

Breeding Strategies for Genetic Improvements of Commercial Forest Trees in the South.

MS 2

Effects of Fertilization and Irrigation on Tree Growth.

MS 3R

Quail Management on Forest and Associated Lands in West Tennessee.

MS 7

Blight Resistance in American Chestnut.

MS 8

Christmas Tree Breeding.

MS 9R

Characteristics of Juvenile and Branch Wood in Hardwoods.

MS 10

Economics of Alternative Timber-Growing Practices in Tennessee Hardwood Stands.

MS 12R

Ecology of Mammalian Species of the Great Smoky Mountains National Park.

MS 14R

Effect of Seedling Root Deformation on Growth and Allocation of Auxins.

MS 16

Economic Importance of Tennessee Forest Resources and Wood Products Industries.

MS 17

Attitudes and Preferences Related to Forest Recreation Opportunities.

MS 18

Computer Processing of Forest Inventory Data.

State 30

The University of Tennessee Arboretum.

State 63

The Ecological and Economic Implications of Improving Wildlife Habitat on Farms in Tennessee.

State 70

Forest Cutting and Water Yield; cooperative with the Agricultural Engineering Department.

State 72

Competitive Position of and Practices in the Hardwood Dimension Industry; cooperative with the Industrial Management Department.

State 78

Economics of Timber Resource Availability in a Tennessee Timbershed.

Projects Concluded in 1975

MS 6

Wood Duck Ecology on Rivers and Impoundments in East Tennessee.

Hatch 185

Forest Tree Genetics

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Hatch 370	Shade Tree Cultivars.
Hatch 377	Production Systems of Nursery Stock.
Hatch 392	Mutation Breeding in Vegetatively Propagated Flowering Pot Plants and Garden Perennials.
Hatch 425	Pesticide Evaluations, Their Residual Effects and Phytotoxicity in Turfgrasses.
Hatch 426	Cultural and Mechanical Management and Evaluation of Turfgrasses.
Hatch 429	Chemical Control of Plant Growth in Florist Pot Plants and Bedding Plants.

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Proj. No.	Research Project Titles
Hatch 211	Forage Crop Breeding.
Hatch 255	Fertilization, Soil and Crop Management Systems, Cultural Practices, and Plant Bed Management Systems for Burley Tobacco.
Hatch 256	Burley Tobacco Breeding.
Hatch 296	Environment-Management Interactions in Forage Crops Ecological Systems.
Hatch 301R	Viruses and Mycoplasma-Like Organisms Causing Diseases of Corn and Sorghum (contributing to Regional Proj. S-70).
Hatch 320	Weed Control in Agronomic Crops.
Hatch 335	Herbicide Movement from Application Sites and Effects on Non-Target Species (contributing to Regional Proj. S-78).
Hatch 337	Diagnosis and Correction of Zinc Problems in Corn and Rice Production (contributing to Regional Proj. S-80).
Hatch 341	Fertilizers and Organic Wastes Applied to Soils in Relation to Environmental Quality (contributing to Regional Proj. S-82); cooperative with the Agricultural Engineering Department.
Hatch 352	Weed Control in Horticultural Crops.
Hatch 360	Mutation Breeding of Soybeans; cooperative with the Agricultural Biology Department.
Hatch 399	Soil and Plant Nutrient Status and Environmental Factors in Relation to Crop Yields.
Hatch 400	Effect of Plant Environment on Its Photosynthetic Capability.
Hatch 402	Cotton Seed and Fiber Development.
Hatch 403	Cotton Production and Varietal Adaptation.
Hatch 404	Forage Crop Production and Metabolic Patterns Under Different Management and Environmental Conditions.
Hatch 406	Small Grain Improvement Through Breeding (wheat, oats, barley, rye).
Hatch 407	Selectivity and Mode of Action of Herbicides and Antidotes.
Hatch 408	Corn Improvement.
Hatch 409	Development and Evaluation of Rootstocks for Peach (contributing to Regional Proj. S-97).
Hatch 411	Vegetable Crop Production.
Hatch 412	Interfacial Reactions in Soils.
Hatch 413	Liming and Its Effects on Nutrient Availability.
Hatch 414	Field Crop Variety Evaluation.
Hatch 416	Plant Growth Regulator Effects on Fruit, Vegetable and Agronomic Crops.
Hatch 417	Fruit Crop Investigations.
Hatch 428	Soil Survey and Its Relation to Behavior of Different Soils Under Various Uses.
Hatch 444	Forage Crops, Ecology and Management.

PLANT AND SOIL SCIENCE**Proj. No.****Projects Concluded in 1975**

Hatch 186

Forage Crops Management; Establishment, Persistence, and Productivity.

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Hatch 358

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Hatch 434

An Evaluation of Selected Laundry Variables on Commercially Available Flame Retardant Children's Sleepwear Garments.

Projects Concluded in 1975

State 65

The Effects of Mold Fungus and Bleach on Two Flame-Retardant Finishes.

UT-COMPARATIVE ANIMAL RESEARCH LABORATORY

Proj. No.	Research Project Titles
1	Comparative Mammalian Genetics and Reproduction.
2	Metabolism and Effects of Toxic Agents Produced by Non-nuclear Energy Sources.
3	Metabolism of Internally Deposited Radionuclides.
4	Biomodeling.
5	Cytological Studies in Irradiated Mammals.
6	Late Somatic Effects of Radiation.
7	Plant Mutagenesis and Metabolism
Hatch 369	New Plants—Their Introduction, Multiplication, Evaluation, and Preservation (contributing to Regional Proj. S-9).
Hatch 390	Comparative Metabolism and Micro- and Macro-Elements in Animals.
Hatch 401R	Mutagenesis and the Development of Mutant Germplasm in Economic Plants.
Hatch 410	Species Comparisons of Pre- and Post-Natal Utilization of Mineral Elements.

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THE UNIVERSITY OF TENNESSEE AT MARTIN

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Hatch 161	Evaluation of Forages for Dairy Cattle; cooperative with the Animal Science Department.
Hatch 186	Adaptation of New Bermudagrass Cultivars Under Different Managements; cooperative with the Plant and Soil Science Department.
Hatch 211	Breeding and Genetics of Forage Crops; cooperative with the Plant and Soil Science Department.
Hatch 296	Phenology of Selected Indicator Plants; cooperative with the Plant and Soil Science Department.
Hatch 302	Corn Disease Monitoring Program; cooperative with the Agricultural Biology Department.
Hatch 323	Relationship Between Properties of Southern Forages and Animal Response; cooperative with the Animal Science Department.
Hatch 414	Field Crop Variety Evaluation; cooperative with the Plant and Soil Science Department.

Bulletins, Articles, and Reports—1975

Hathcock, B. R., E. W. Culvahouse, and M. J. Montgomery

A Comparison of Corn, Bird Resistant, and Non-Bird Resistant Grain Sorghum Silages for Lactating Cows. Tennessee Farm and Home Science Progress Report 93, March 1975.

STATION PERSONNEL—1975

**The University of Tennessee
Agricultural Experiment Station
Knoxville, Tennessee 37901**

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	Paris L. Lambdin, Assistant Professor

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Dennis H. Latham, Associate Professor, Springfield
 Gary L. Lentz, Assistant Professor, Jackson
 Donny McFall, Graduate Research Assistant
 Eugene H. Moody, Assistant Professor
 Sheila M. Moore, Graduate Research Assistant
 Neil Ogg, Graduate Research Assistant
 Gayle V. Parrish, Graduate Research Assistant

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 Howard E. Reed, Associate Professor
 N. B. Shamiyeh, Research Assistant
 Joe D. Simpson, Graduate Research Assistant
 Robert P. Smith, Graduate Research Assistant
 Melvin Warren, Graduate Research Assistant
 James L. Wilson, Associate Professor
 William B. Wyatt, Graduate Research Assistant

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 D. W. Brown, International Professor
 C. L. Cleland, Professor and Ombudsman
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 J. M. Devine, Graduate Research Assistant
 Irving Dubov, Professor
 J. L. Garrett, Graduate Research Assistant
 T. D. Hewitt, Graduate Research Assistant

L. H. Keller, Professor
 K. M. Kennedy, Graduate Research Assistant
 T. H. Klindt, Assistant Professor
 T. H. Lederer, Graduate Research Assistant
 F. O. Leuthold, Professor
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 S. D. Mundy, Assistant Professor
 W. D. Pitt, Jr., Graduate Research Assistant
 R. M. Ray, Assistant Professor
 Jerome Reece, Graduate Research Assistant
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 Morgan J. C. Scudi, Graduate Research Assistant
 J. G. Snell, Associate Professor
 B. J. Trevena, Assistant Professor

AGRICULTURAL ENGINEERING

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 D. O. Baxter, Assistant Professor
 B. L. Bledsoe, Associate Professor
 R. G. Carpenter, Graduate Research Assistant

K. E. Duckett, Associate Professor
 D. D. Eller, Graduate Research Assistant
 Z. A. Henry, Associate Professor
 J. S. Jablonski, Instructor

¹ In cooperation with U.S. Department of Agriculture

R. S. Krowicki, Assistant Professor ¹
Reba Lawson, Assistant Professor ¹
J. R. Lehman, Graduate Research
Assistant
J. K. McDonald, Graduate Research
Assistant
J. T. Melton, Graduate Research
Assistant
J. A. Mullins, Professor, Jackson
C. S. Purdum, Graduate Teaching
Assistant
H. H. Ramey, Professor ¹
D. R. Robertson, Graduate Research
Assistant

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J. D. Simmons, Graduate Research
Assistant
R. B. Stone, Associate Professor ¹
J. E. Temple, Graduate Research
Assistant
F. D. Tompkins, Assistant Professor
J. T. Walker, Graduate Research
Assistant
L. R. Wilhelm, Assistant Professor

ANIMAL SCIENCE

R. R. Johnson, Head of Department
W. R. Backus, Associate Professor
J. A. Bacon, Instructor
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B. J. Bearden, Assistant Professor
M. C. Bell, Professor
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W. T. Butts, Jr., Associate Professor ¹
J. A. Corrick, Assistant Professor
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Assistant in Animal Science
M. E. Fryer, Instructor
H. C. Goan, Assistant Professor
J. Herr, Graduate Research Assistant
in Animal Science
J. P. Hitchcock, Assistant Professor
J. W. Holloway, Assistant Professor
J. T. Hopper, Graduate Research
Assistant in Animal Science
M. Hunter, Graduate Research
Assistant in Animal Science
R. Ingram, Graduate Research
Assistant in Animal Science
C. M. Irwin, Graduate Research
Assistant in Animal Science
H. M. Jamison, Professor

E. R. Lidvall, Associate Professor
W. A. Lyke, Instructor
G. C. McGhee, Laboratory Assistant
J. R. McCurley, Graduate Research
Assistant in Animal Science
J. B. McLaren, Associate Professor
W. W. McNeill, Assistant Professor
F. B. Masincupp, Assistant Professor
E. L. Moody, Graduate Research
Assistant in Animal Science
M. J. Montgomery, Associate
Professor
R. A. Munsinger, Instructor
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J. F. Pearson, Graduate Research
Assistant in Animal Science
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R. R. Shrode, Professor
J. D. Smalling, Assistant Professor
E. W. Swanson, Professor
Sandra Tegge, Graduate Research
Assistant in Animal Science
R. L. Tugwell, Professor
T. B. Turner, Graduate Research
Assistant in Animal Science
J. E. Wilkinson, Graduate Research
Assistant in Animal Science

¹ In cooperation with U.S. Department of Agriculture.

CHILD DEVELOPMENT AND FAMILY STUDIES

Judith L. Kuipers, Head of
Department

Helen Reed, Assistant Professor
Lois E. Southworth, Assistant
Professor

COMMUNICATIONS

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Frederick E. Berggren, Assistant
Communications Specialist

Conrad A. Reinhardt,
Communications Specialist
Elaine K. Wiedemann, Assistant
Communications Specialist

FOOD SCIENCE, NUTRITION, AND FOOD SYSTEMS ADMINISTRATION

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Assistant
Marta L. Axelson, Graduate Research
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Roy E. Beauchene, Professor
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Janet S. Kurzynske, Graduate
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Professor
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Assistant
John T. Smith, Professor
Martha B. Stone, Graduate Research
Assistant
Troy Wakefield, Jr., Graduate
Research Assistant
Lois A. Wodarski, Graduate Research
Assistant

FOOD TECHNOLOGY AND SCIENCE

J. T. Miles, Head of Department
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E. A. Childs, Assistant Professor
J. L. Collins, Associate Professor
B. J. Demott, Associate Professor
F. A. Draughon, Graduate Research
Assistant
C. S. Gaines, Graduate Research
Assistant
H. O. Jaynes, Associate Professor
J. C. Harrison, Graduate Research
Assistant
J. W. Lusby, Graduate Research
Assistant

J. E. Marcy, Graduate Research
Assistant
C. C. Melton, Associate Professor
S. L. Melton, Assistant Professor
R. E. Moyers, Graduate Research
Assistant
J. O. Mundt, Professor
W. W. Overcast, Professor
M. J. Riemann, Assistant Professor
O. G. Sanders, Graduate Research
Assistant
C. J. Wilmes, Graduate Research
Assistant

FORESTRY

J. W. Barrett, Head of Department
E. R. Buckner, Associate Professor
T. J. Coppinger, Graduate Research
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H. A. Core, Professor
R. W. Dimmick, Associate Professor
D. C. Eagar, Graduate Research
Assistant
D. C. Flynn, Graduate Research
Assistant
G. S. Foster, Jr., Graduate Research
Assistant
W. R. Gall, Graduate Research
Assistant
G. H. Hardy, Graduate Research
Assistant
P. D. Johnson, Graduate Research
Assistant

L. F. Jones, Graduate Research
Assistant
K. R. Livengood, Graduate Research
Assistant
B. A. Manalan, Graduate Research
Assistant
W. G. Minser III, Instructor
W. W. Moschler, Instructor
D. M. Ostermeier, Assistant Professor
M. R. Pelton, Associate Professor
Vivian O. Potter, Graduate Research
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J. C. Rennie, Assistant Professor
K. F. Schell, Associate Professor
E. Thor, Professor
E. L. Warr, Graduate Research
Assistant
G. R. Wells, Associate Professor
F. W. Woods, Professor

ORNAMENTAL HORTICULTURE AND LANDSCAPE DESIGN

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L. M. Callahan, Associate Professor
E. T. Graham, Associate Professor
D. Ingram, Graduate Research
Assistant
G. L. McDaniel, Assistant Professor

D. P. Shepard, Graduate Research
Assistant
S. Street, Graduate Research
Assistant
H. van de Werken, Associate
Professor

PLANT AND SOIL SCIENCE

L. F. Seatz, Head of Department
M. B. Akins, Graduate Research
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Fred L. Allen, Assistant Professor
F. F. Bell, Professor
J. F. Brown, Assistant Professor,
Jackson
Peter Bruno, Graduate Research
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G. J. Buntley, Associate Professor
James Castellaw, Graduate Research
Assistant

D. L. Coffey, Associate Professor
B. V. Conger,² Associate Professor,
Oak Ridge
J. T. Connell, Assistant Professor,
Grand Junction
M. B. Donoho, Graduate Research
Assistant
R. English, Graduate Research
Assistant
H. A. Fribourg, Professor
C. R. Graves, Associate Professor

¹ In cooperation with the U.S. Department of Agriculture.

² In cooperation with the UT-AEC Comparative Animal Research Laboratory.

C. L. Gupton, ¹ Associate Professor, Greeneville	B. C. Nichols, ¹ Associate Professor, Greeneville
B. G. Harville, Graduate Research Assistant	J. R. Overton, Associate Professor, Jackson
P. E. Hoskinson, Associate Professor, Jackson	W. L. Parks, Professor
L. S. Jeffery, Associate Professor	Robert Ratliff, Graduate Research Assistant
L. M. Josephson, Professor	D. L. Reasons, Graduate Research Assistant
H. C. Kincer, Assistant Professor	V. H. Reich, Assistant Professor
W. A. Krueger, Associate Professor	J. H. Reynolds, Associate Professor
G. M. Lessman, Assistant Professor	L. D. Robertson, Graduate Research Assistant
R. J. Lewis, Associate Professor	R. H. Rogers, Graduate Research Assistant
D. W. Lockwood, Assistant Professor	C. E. Sams, Graduate Research Assistant
James L. Magness, Graduate Research Assistant	J. B. Sikes, Jr., Graduate Research Assistant
W. Miller, Graduate Research Assistant	L. N. Skold, Professor
T. H. Morgan, Jr., Assistant Professor, Spring Hill	H. C. Smith, Associate Professor
T. E. Morgan, Graduate Research Assistant	M. E. Springer, Professor
S. L. Morris, Graduate Research Assistant	J. M. Stewart, ¹ Assistant Professor
C. A. Mullins, Assistant Professor, Crossville	H. D. Swingle, Professor
	J. Turner, ¹ Associate Professor
	S. Worley, ¹ Associate Professor

TEXTILES AND CLOTHING

Anna Jean Treece, Head of Department	Sara M. Zimmerman, Graduate Research Assistant
Carolyn T. Ashley, Graduate Research Assistant	

UT—COMPARATIVE ANIMAL RESEARCH LABORATORY

H. E. Walburg, Laboratory Director	M. J. Constantin, Professor
D. M. Robie, Assistant to the Director	E. B. Darden, Professor
J. M. Bird, Superintendent	G. R. Eisele, Assistant Professor
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L. E. Browne, Chief Engineer	S. L. Hansard, Professor
R. J. Chertok, Associate Professor	R. R. Henke, Assistant Professor
B. V. Conger, Associate Professor	B. J. Kelman, Postdoctoral Research Associate
	W. J. Kopp, Professor

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A. F. McFee, Professor
F. C. Madsen, Postdoctoral Research
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Polly G. Martin, Associate Professor
J. K. Miller, Associate Professor
F. R. Mraz, Professor
T. R. Noonan, Professor
F. M. Osborne, Purchasing Agent

R. A. Reynolds, Assistant
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L. B. Sasser, Assistant Professor
M. D. Schneider, Professor
G. E. Spalding, Associate Professor
K. M. Wallace, Applied Health
Physicist
J. F. Weiss, Assistant Professor
Wei-O V. Wong, Biostatistician

THE UNIVERSITY OF TENNESSEE AT MARTIN

H. J. Smith, Dean, School of
Agriculture
E. W. Culvahouse, Associate
Professor of Dairying
B. N. Duck, Assistant Dean and
Professor of Agronomy

B. R. Hathcock, Associate Professor
of Agronomy
H. A. Henderson, Farm Manager
N. W. Robinson, Professor of Animal
Science

MAIN STATION, KNOXVILLE

John Hodges III, Superintendent of Farms

BRANCH STATIONS

Dairy Experiment Station,¹
Lewisburg, J. R. Owen,¹
Superintendent
Highland Rim Experiment Station,
Springfield, L. M. Safley, Superin-
tendent
Middle Tennessee Experiment Station,
Spring Hill, J. W. High, Jr.,
Superintendent

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ville, R. D. Freeland, Superintend-
ent; R. Q. Snider, Manager
Tobacco Experiment Station,¹ Greene-
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tendent
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FIELD STATIONS

Ames Plantation, Grand Junction,
James M. Bryan, Superintendent
Forestry Field Stations at Tullahoma,
Wartburg, and Oak Ridge, Richard

M. Evans, Superintendent
Milan Field Station, Milan, T. C.
McCutchen, Superintendent

¹ In cooperation with U.S. Department of Agriculture

PERSONNEL CHANGES

Appointments

- Arline M. Allen, Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, September 1, 1975
- F. L. Allen, Assistant Professor of Plant and Soil Science, June 16, 1975
- Marta Lynne Axelson, Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, September 15, 1975
- William D. Bolton, Graduate Research Assistant in Agricultural Economics, August 29, 1975
- Gloria S. Boone, Senior Research Assistant, UT-Comparative Animal Research Laboratory, April 14, 1975
- P. J. Bredderman, Associate Professor, UT-Comparative Animal Research Laboratory, March 17, 1975
- Dan T. Brown, Graduate Research Assistant in Animal Science, April 1, 1975
- J. W. Brown, Administrative Assistant, UT-Comparative Animal Research Laboratory, April 7, 1975
- L. E. Browne, Chief Engineer, UT-Comparative Animal Research Laboratory, February 1, 1975
- Peter Bruno, Graduate Research Assistant in Plant and Soil Science, June 16, 1975
- M. F. Callaham, Senior Research Assistant, UT-Comparative Animal Research Laboratory, September 2, 1975
- James Castellaw, Graduate Research Assistant in Plant and Soil Science, July 7, 1975
- G. W. F. Cavender, Director of Office of Communications, March 1, 1975
- R. J. Chertok, Associate Professor, UT-Comparative Animal Research Laboratory, March 3, 1975
- Charles W. Cook, Jr., Graduate Research Assistant in Agricultural Biology, May 16, 1975
- T. J. Coppinger, Graduate Research Assistant in Forestry, September 16, 1975
- D. D. Eller, Graduate Research Assistant in Agricultural Engineering, April 1, 1975
- R. English, Graduate Research Assistant in Plant and Soil Science, January 1, 1975
- Richard E. Fish, Graduate Research Assistant in Animal Science, September 8, 1975
- D. C. Flynn, Graduate Research Assistant in Forestry, January 1, 1975
- G. S. Foster, Jr., Graduate Research Assistant in Forestry, April 1, 1975
- Donald M. Gardner, Jr., Graduate Research Assistant in Agricultural Biology, September 1, 1975
- G. H. Hardy, Graduate Research Assistant in Forestry, September 16, 1975
- Deborah S. Harnden, Research Assistant, UT-Comparative Animal Research Laboratory, July 1, 1975
- R. R. Henke, Assistant Professor, UT-Comparative Animal Research Laboratory, January 2, 1975
- John P. Hitchcock, Assistant Professor of Animal Science, April 1, 1975
- Joseph W. Holloway, Assistant Professor of Animal Science, February 1, 1975
- James T. Hopper, Graduate Research Assistant in Animal Science, September 1, 1975
- Mike Hunter, Graduate Research Assistant in Animal Science, September 1, 1975
- C. Mike Irwin, Graduate Research Assistant in Animal Science, September 1, 1975

- J. S. Jablonski, Instructor in Agricultural Engineering, October 1, 1975
- Kimball M. Kennedy, Graduate Research Assistant in Agricultural Economics, January 1, 1975
- J. W. Lusby, Graduate Research Assistant in Food Technology and Science, July 1, 1975
- Walker McNeill, Assistant Professor of Animal Science, July 1, 1975
- B. A. Manalan, Graduate Research Assistant in Forestry, January 1, 1975
- J. T. Melton, Graduate Research Assistant in Agricultural Engineering, July 1, 1975
- William A. Miller, Graduate Research Assistant in Agricultural Economics, October 1, 1975
- Ernest L. Moody, Graduate Research Assistant in Animal Science, March 1, 1975
- Sheila M. Moore, Graduate Research Assistant in Agricultural Biology, September 1, 1975
- Roger A. Munsinger, Instructor in Animal Science, April 7, 1975.
- F. M. Osborne, Purchasing Agent, UT-Comparative Animal Research Laboratory, June 2, 1975
- Joseph F. Pearson, Graduate Research Assistant in Animal Science, April 1, 1975
- Robert Ratliff, Graduate Research Assistant in Plant and Soil Science, July 1, 1975
- M. D. Schneider, Professor, UT-Comparative Animal Research Laboratory, January 2, 1975
- Janna H. Scruggs, Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, September 15, 1975
- Morgan J. C. Scudi, Graduate Research Assistant in Agricultural Economics, July 15, 1975
- D. P. Shepard, Graduate Research Assistant in Ornamental Horticulture and Landscape Design, September 1, 1975
- Jane W. Storm, Senior Research Technician, UT-Comparative Animal Research Laboratory, November 17, 1975
- Sandra Tegge, Graduate Research Assistant in Animal Science, October 1, 1975
- Cindy Thomsen, Graduate Research Assistant in Ornamental Horticulture and Landscape Design, April 1, 1975
- Troy Wakefield, Jr., Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, September 15, 1975
- J. T. Walker, Graduate Research Assistant in Agricultural Engineering, January 1, 1975
- Birgitta K. Walter, Senior Research Assistant, UT-Comparative Animal Research Laboratory, October 15, 1975
- E. L. Warr, Graduate Research Assistant in Forestry, July 17, 1975
- Lois A. Wodarski, Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, September 1, 1975

PERSONNEL CHANGES

Title Changes

- John R. Brooker, to Associate Professor of Agricultural Economics, July 1, 1975
- Brady J. Deaton, to Associate Professor of Agricultural Economics, July 1, 1975
- B. R. Hathcock, to Associate Professor of Agronomy, UT Martin, July 1, 1975
- John Hodges III, to Assistant Superintendent of Farms, Main Station, Knoxville, April 1, 1975, and to Superintendent, October 1, 1975
- L. S. Jeffery, to Associate Professor of Plant and Soil Science, July 1, 1975
- W. A. Krueger, to Associate Professor of Plant and Soil Science, July 1, 1975
- A. F. McFee, to Professor, UT-Comparative Animal Research Laboratory, July 1, 1975
- Don O. Richardson, to Professor of Animal Science, July 1, 1975
- Herschel V. Shirley, to Professor in Animal Science, July 1, 1975
- Lois Southworth, to Assistant Professor, Department of Child and Family Studies, September 1, 1975
- G. R. Wells, to Associate Professor of Forestry, July 1, 1975
- Elaine K. Wiedemann, from Assistant Extension Agent in Johnson County to Assistant Specialist, Office of Communications, August 11, 1975
- James Larry Wilson, to Associate Professor of Agricultural Biology, July 1, 1975

PERSONNEL CHANGES

Terminations

- Laurel M. Adams, Research Assistant, UT-Comparative Animal Research Laboratory, August 20, 1975
- B. F. Anderson, Graduate Research Assistant in Forestry, August 1, 1975
- Mia M. Armitage, Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, August 31, 1975
- W. D. Barber, Assistant Professor in Plant and Soil Science, June 30, 1975
- Joan L. Bare, Graduate Research Assistant in Textiles and Clothing, August 31, 1975
- L. Bassano, Graduate Research Assistant in Ornamental Horticulture and Landscape Design, June 13, 1975
- D. K. Burt, Graduate Research Assistant in Forestry, September 16, 1975
- H. Cabrera, Graduate Research Assistant in Forestry, September 16, 1975
- Larry A. Carver, Graduate Research Assistant in Animal Science, March 31, 1975
- J. A. Culver, Graduate Research Assistant in Agricultural Economics, May 23, 1975
- Raymond Daniel, Associate Professor in Agricultural Economics, February 28, 1975
- Tony A. Fitz, Graduate Research Assistant in Animal Science, August 31, 1975
- D. W. Flynn, Graduate Research Assistant in Forestry, December 31, 1975

- Fred H. Fox, Jr., Graduate Research Assistant in Agricultural Economics, July 13, 1975
- Morgan D. Gray, Graduate Research Assistant in Agricultural Economics, June 13, 1975
- D. B. Hannaway, Graduate Research Assistant in Plant and Soil Science, June 30, 1975
- John C. Hodges, III, Graduate Research Assistant in Animal Science, March 31, 1975
- J. M. Holt, Research Assistant in Ornamental Horticulture and Landscape Design, May 31, 1975
- J. S. Jablonski, Graduate Research Assistant in Agricultural Engineering, August 31, 1975
- Janet S. Kurzynske, Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, August 31, 1975
- Marianne Leese, Graduate Research Assistant in Ornamental Horticulture and Landscape Design, May 31, 1975
- William P. Ligon, Graduate Research Assistant in Animal Science, March 31, 1975
- R. W. Loveland, Graduate Research Assistant in Plant and Soil Science, October 31, 1975
- Nancy A. Lovro, Senior Research Technician, UT-Comparative Animal Research Laboratory, June 26, 1975
- Gonzalee Martin, Graduate Research Assistant in Agricultural Economics, July 31, 1975
- W. H. McCracken, Graduate Research Assistant in Forestry, December 31, 1975
- A. R. McDaniel, Graduate Research Assistant in Plant and Soil Science, June 30, 1975
- Donny McFall, Graduate Research Assistant in Agricultural Biology, September 1, 1975
- Larry C. Morgan, Assistant Professor in Agricultural Economics, October 13, 1975
- Neil Ogg, Graduate Research Assistant in Agricultural Biology, August 19, 1975
- Gayle Parrish, Graduate Research Assistant in Agricultural Biology, November 1, 1975
- Doris E. Phillips, Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, August 31, 1975
- J. S. Pretanik, Graduate Research Assistant in Food Technology and Science, January 31, 1975
- J. L. Richeson, Graduate Research Assistant in Forestry, October 17, 1975
- D. R. Robertson, Graduate Research Assistant in Agricultural Engineering, October 15, 1975
- Judith B. Robinson, Senior Research Technician, UT-Comparative Animal Research Laboratory, July 31, 1975
- Charles D. Safley, Graduate Research Assistant in Agricultural Economics, December 31, 1975
- Joe D. Simpson, Graduate Research Assistant in Agricultural Biology, September 1, 1975
- L. W. Skinner, Graduate Research Assistant in Plant and Soil Science, November 30, 1975
- Daryl A. Taylor, Graduate Research Assistant in Forestry, July 15, 1975
- Verdis L. Taylor, Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, August 31, 1975
- R. C. Terry, Graduate Research Assistant in Food Technology and Science, June 30, 1975

Cindy Thomsen, Graduate Research Assistant in Ornamental Horticulture and Landscape Design, July 31, 1975

Lois A. Wodarski, Graduate Research Assistant in Food Science, Nutrition, and Food Systems Administration, December 13, 1975

Elizabeth A. Yetley, Assistant Professor in Food Science, Nutrition, and Food Systems Administration, August 31, 1975

Mervin J. Yetley, Assistant Professor in Agricultural Economics, September 4, 1975

On Leave

Gail W. Disney, Assistant Professor, Food Science, Nutrition, and Food

Systems Administration, January 29, 1975

Returned From Leave

Gail W. Disney, Assistant Professor, Food Science, Nutrition, and Food

Systems Administration, March 1, 1975

Retirements

Henderson M. Crowder, Instructor in Animal Science, February 28, 1975

P. R. Ewald, Associate Professor of Agricultural Engineering, July 31, 1975¹

A. H. Morgan, Associate Professor of Agricultural Engineering, September 1, 1975

J. Newt Odom, Superintendent of Farms, Main Station, Knoxville, August 31, 1975

¹ In cooperation with U.S. Department of Agriculture.