

**AVAILABLE
PUBLICATIONS**

of the

**OHIO
AGRICULTURAL EXPERIMENT STATION**

Wooster, Ohio

This page intentionally blank.

The Ohio Agricultural Experiment Station publishes:

- (1) Farm and Home Research (formerly known as the Bi-Monthly Bulletin).
- (2) Research Bulletins.
- (3) Circulars—Research and Special.

This booklet has been prepared to explain the purposes of each and to list those which are available to the public.

Distribution of Publications

Residents of Ohio may secure "Farm and Home Research" by requesting their name be placed on the mailing list for this publication.

Residents of Ohio may secure free one copy of each of five (5) bulletins or circulars at one time.

Non-residents may secure free one bulletin or circular at one time.

Additional copies, when available, may be secured at cost.

Ordering Publications

When ordering publications please do the following things:

- (1) List both number and name of the desired publication.
- (2) Address your request on a postal card to the Mailing Room, Ohio Agricultural Experiment Station, Wooster, Ohio.
- (3) Print plainly your name, county, and post office address.

Farm and Home Research

This is a periodical which is published six times a year (January-February, March-April, May-June, July-August, September-October; and November-December). Each issue contains several articles on subjects of interest to farm families. Each article is a report of progress on some phase of research conducted by the Experiment Station.

All new publications, as soon as they are printed, are announced in **Farm and Home Research**. Notices of Special Days to be held (such as Dairy Day, Orchard Day, Poultry Day, and others) are printed in this periodical.

Technical Bulletins (discontinued)

This series consists of reports on basic research written to aid other research workers. The material is technical in nature and of little interest to the average reader. No more bulletins will be published in this series.

Technical
Bulletin
No.

- 6 The metabolism of organic and inorganic compounds of phosphorus (1915)
- 7 Preliminary observations on nitrification (1915)
- 8 Studies on the estimation of inorganic phosphorus on plant and animal substances (1915)
- 9 Environmental factors in relation to plant disease and injury: a bibliography (1932)
- 10 A phenol coefficient study involving bacterial plant pathogens (1932)
- 11 The bacteriophage reaction for the identification of bacteria (1947)

Circulars

Special Circulars are written simply and are well illustrated. Each circular gives a discussion of some timely farm topic based on the research man's general knowledge. **Research Circulars** contain progress reports on experiments and are semi-technical in content.

Special
Circular
No.

- 49 The mineral needs of farm animals (1937)
- 65 Budding and grafting on hardy apple stocks (1942)
- 67 Insure legumes with inoculation (1943)
- 72 Farm and home underground storage made of steel (1946)
- 73 The use of unproved sires (1946)
- ~~75 List of publications (1948)~~
- 78 A key to the soils of Ohio (1948)
- 79 Monroe soybeans.
- 80 Elm phloem necrosis and Dutch elm disease.
- 81 List of publications (1950)
- 82 The Secret Arboretum (1950)

Research
Circular
No.

- 1 Experiments in control of tomato diseases and insects (1948)

Research Bulletins

Each **Bulletin** is a fairly complete report on a problem which has been studied by Station research workers over a period of years. A story of the work, methods used, discussion of the problem, references to similar research work, results and data obtained from the research, and a summary are included in most **Bulletins**.

ADMINISTRATION

Annual Reports, Weather, History

Research
Bulletin
No.

- 326 Agriculture of Ohio—history, development, crop production (1918)
- 501 Fifty-year index to personnel and publications (1932)
- 544 Some observations on 46 years of Ohio weather (1934)
- 617 Annual Report 1938-1939 (1940)
- 658 Annual Report 1939-1943 (1945)
- 659 Farm science and practice—Annual Report 1943-1944 (1945)
- 665 Farm science and practice—Annual Report 1944-1945 (1947)
- 673 Farm science and practice—Annual Report 1945-1946 (1947)
- 674 Farm science and practice—Annual Report 1946-1947 (1948)
- 680 Farm science and practice—Annual Report 1947-1948 (1949)
- 695 Farm science and practice—Annual Report 1948-1949 (1950)

AGRONOMY

Field Crops, Pastures, Soils, Soil and Water Conservation, Fertilizers, Liming Materials, Lawns, Weed Control

- 405 An experimental study of sweetclover (1927)
- 421 Mixtures of spring cereals and flax in Ohio (1928)
- 441 Organic food reserves in relation to eradication of Canada thistles (1929)
- 507 The trend for wheat production in Ohio (1932)
- 563 The influence of climate, soil, and fertilizers upon quality of soft winter wheat (1936)
- 568 Tensile strength, extensibility, and other characteristics of wheat roots in relation to winter injury (1936)

Agronomy (continued)

588. Better methods of seeding meadows (1937)
See section on *Farm Income and Living* for bulletin on erosion, No. 585.
- 589 Soil erosion in Ohio (1937)
- 590 Tobacco cultural and fertility tests (1938)
- 603 Timothy culture (1939)
- 605 Farm manure (1939)
- 613 Lawn experiments (1940)
See section on *Dairying* for bulletin on hay crops for the dairy farm,
Bulletin 662
- 681 Kentucky bluegrass (1949)
- ~~684~~ ~~Ladino clover for Ohio farms (1940)~~

DAIRYING

Dairy Cattle. Feeding, Nutrition, Breeding, Artificial Breeding, Disease Control, Forage Utilization, Dairy Products

- 455 Dicalcium phosphate as a mineral supplement for dairy cows (1930)
- 477 Studies on the nutritive value of milk I. The deficiencies of an exclusive milk diet and how to overcome them (1931)
- 515 The chemical composition and nutritive properties of milk as affected by the level of protein feeding (1933)
- 518 Studies on the nutritive value of milk. II. The effect of pasteurization on some of the nutritive properties of milk (1933)
- 545 Nerve degeneration associated with avitamosis A in the white rat (1934)
- 644 Relationship between fat content of dairy grain mixtures and milk and butterfat production (1943)
- 662 Dairy farming based on the liberal use of meadow crops (1946)

FARM INCOME AND LIVING

Production Costs, Marketing, Income, Living Costs, Living Conditions, Taxation, Population, Statistics, Farm Management

- 418 The apple industry of Ohio (1928)
- 419 Livestock production costs in Greene County, Ohio (1928)
- 427 A business study of the Ohio Poultry Producers' Cooperative Association (1928)
- 440 The truck and its relationship to livestock marketing in Ohio (1929)
- 442 Ohio agricultural statistics for 1928 (1929)
- 443 Farmers produce markets in Ohio (1929)
- 450 Estimated income from the Ohio agricultural industry (1930)
- 453 Variations in crop production costs in Medina County, Ohio (1930)
- 458 Some factors affecting the movement of Ohio wheat (1930)
- 460 Ohio agricultural statistics for 1929 (1930)
- 467 Movement of open country population in Ohio (1930)
- 469 The development of market milk areas in northeast Ohio (1930)
- 485 Land utilization in a southeastern Ohio county (1931)
- 498 A market analysis of farm sales of milk to dealers in four Ohio cities (1932)
- 503 Ohio agricultural statistics for 1929-1930-1931 (1932)
- 509 The farm mortgage situation in Putnam, Union, and Greene Counties, Ohio (1932)
- 514 Land utilization in Lawrence County, Ohio (1932)
- 521 Roadside marketing of agricultural products by Ohio farmers (1933)
- 523 Sources of market milk and butterfat in Ohio (1933)
- 526 Twenty years of Ohio agriculture 1910-1930 (1933)
- 529 Some rural social agencies in Ohio (1933)
- 530 Ohio agricultural statistics 1932 (1933)
- 531 Motor transportation of livestock in Ohio (1933)
- 533 Recent trends in the rural population of Ohio (1934)
- 536 Market movements of Ohio eggs (1934)
- 542 Ohio agricultural statistics for 1933 (1934)
- 546 Cream marketing in southwestern Ohio (1935)
- 547 Rural homes for non-agricultural workers—a survey of their agricultural activities (1935)
- 554 Ohio agricultural statistics for 1934 (1935)
- 560 Public revenue in Ohio with especial reference to rural taxation (1936)
- 574 A study of cooperative milk marketing associations in four Ohio markets (1936)
- 582 Population mobility in selected areas of rural Ohio (1937)

Farm Income and Living (continued)

- 585 The effect of land use and management on erosion (1937)
- 587 The farm business from 1929 to 1935 on 141 Ohio farms (1937)
- 593 Ohio agricultural statistics for 1936 (1938)
- 597 Local government in two rural Ohio counties (1938)
- 606 Attitude of farmers toward cooperative marketing (1939)
- 609 Ten years of farm sales of milk in four Ohio markets (1939)
- 612 Ohio agricultural statistics for 1938 (1940)
- 614 The Ohio farmer and his milk market (1940)
- 624 Level of living, social participation, and adjustment of Ohio farm people (1941)
- 628 Labor, power, and machinery on small farms in Ohio (1942)
- 636 A study of the newer hay harvesting methods on Ohio farms (1942)
- 638 Public revenue in Ohio with especial reference to rural taxation (1942)
- 639 Levels of living and population movements in rural areas of Ohio, 1930-1940 (1943)
- 642 Ohio agricultural statistics for 1940 and 1941 (1943)
- 650 Farmers' elevators of Ohio (1944)
- 660 Relationships between cooperatives serving farmers in five Ohio counties (1946)
- 668 Cold storage locker plants in Ohio (1946)
- 669 Change in size of farms in Ohio—1900-1940 (1947)
- 678 Milk marketing orders in Ohio (1948)
- 682 Mental health of rural children in Ohio (1949)
- 683 Ohio farm leases (1948)
- 686 Father-son farming (1949)
- 687 Costs of producing milk in Ohio (1949)
- 688 Frozen fruits and vegetables (1949)

FORESTRY

Lumber, Reforestation, Woodland Management

- 598 Forest fires in Ohio 1923 to 1935 (1938)

GENERAL LIVESTOCK

Beef Cattle, Hogs, Sheep, Poultry. Animal Nutrition, Feeding, Breeding, Disease Control, Forage Utilization

- 398 Hogging down corn (1926)
- 401 Stomach worms and nodular worms in lambs (1926)
- 415 The influence of fertilizers on the vitamin B content of wheat (1926)
- 436 The nutritive value of blood-meal protein for growth (1929)
- 452 Soybeans and soybean oil meal for pigs (1930)
- 534 Cottonseed meal for pigs (1934)
- 558 Fluorine in animal nutrition (1935)
- 571 The influence of various factors upon the growth and quality of fine wool as obtained from Merino sheep (1936)
- 576 The influence of the stage of maturity on the chemical composition and the vitamin B₁ and G content of hays and pasture grasses (1936)
- 607 Substitutes for corn for growing and fattening pigs (1939)
- 664 The influence of the rate of fat deposition on the firmness of the fat of hogs (1946)
- 667 The comparative efficacy of vitamin D from irradiated yeast and cod-liver oil for growing pigs, with observations on their vitamin D requirements (1946)
- 675 Crossbreeding for the production of market hogs (1948)
- 690 Corn cobs for lambs (1949)
- 693 Marketing eggs on a graded basis in Ohio (1950)

HOME ECONOMICS

Foods, Nutrition, Textiles, Clothing and Home Furnishings, Laundering

- 433 Food consumption of farm families (1929)
- 465 Basal metabolism of young women (1930)
- 474 A study of certain cash expenditures of Ohio farm families (1931)
- 482 Seasonal variation in the rate of growth of preschool children (1931)
- 492 Foods used by rural families in Ohio during a 3-year period (1931)
- 506 The influence of laundering and exposure to light upon some wash silks used for outer garments (1932)
- 549 A study of the food habits and physical development of preschool children (1935)
- 565 The influence of position isomerism in azo dyes upon their fastness to light and washing (1936)
- 575 Basal metabolism of older women (1936)
- 645 A comparative study of cotton and rayon glass curtain fabrics (1943)
- 646 Food consumption of college men (1943)

HORTICULTURE

Fruits, Vegetables, Flowers, Ornamental Plants, Greenhouse Crops, Soilless Plant Culture

- 456 The cost of developing an apple orchard (1930)
- 466 Relation of nitrogen fertilizer to the firmness and composition of strawberries (1930)
- 472 Bloom period and yield of apples (1931)
- 493 Celery fertilizer experiments in Ohio (1931)
- 508 Apple thinning (1932)
- 510 Grafting and budding fruit trees (1932)
- 517 A survey of Ohio orchard soils relative to phosphorus distribution and acidity (1933)
- 519 A study of the ash constituents of apple fruits during the growing season (1933)
- 541 Experiments on thinning peaches (1934)
- 550 Sugar, acidity, and juice color determinations in grapes (1935)
- 555 Some physiological studies with calcium cyanamide and certain of its decomposition products (1935)
- 566 Factors affecting the yield of kraut cabbage in Ohio as determined by a survey and cooperative field tests (1936)
- 570 Experiments with potatoes on muck soil (1936)
- 581 Peach production in Ohio (1937)
- 584 Removal of spray residues from apples (1937)
- 618 Bloom period and yield of apples (1941)
- 629 Purity, germination, and yield of some vegetable seeds offered for retail sale in Ohio in 1941 (1942)
- 640 Aggregation of an orchard and a vegetable soil under different cultural treatments (1943)
- 657 Experiments in growing tomatoes for canning (1945)
- 661 Record of a 50-year-old apple orchard (1946)
- 663 Physical and chemical studies of soils in north central Ohio vineyards (1946)
- 671 Onion production in Ohio (1947)
- 672 Cover crop and sod plus mulch orchard soil management (1947)
- 679 Gravel culture (1949)
- 689 Ohio W-R Globe (1949)

INSECTS AND THEIR CONTROL

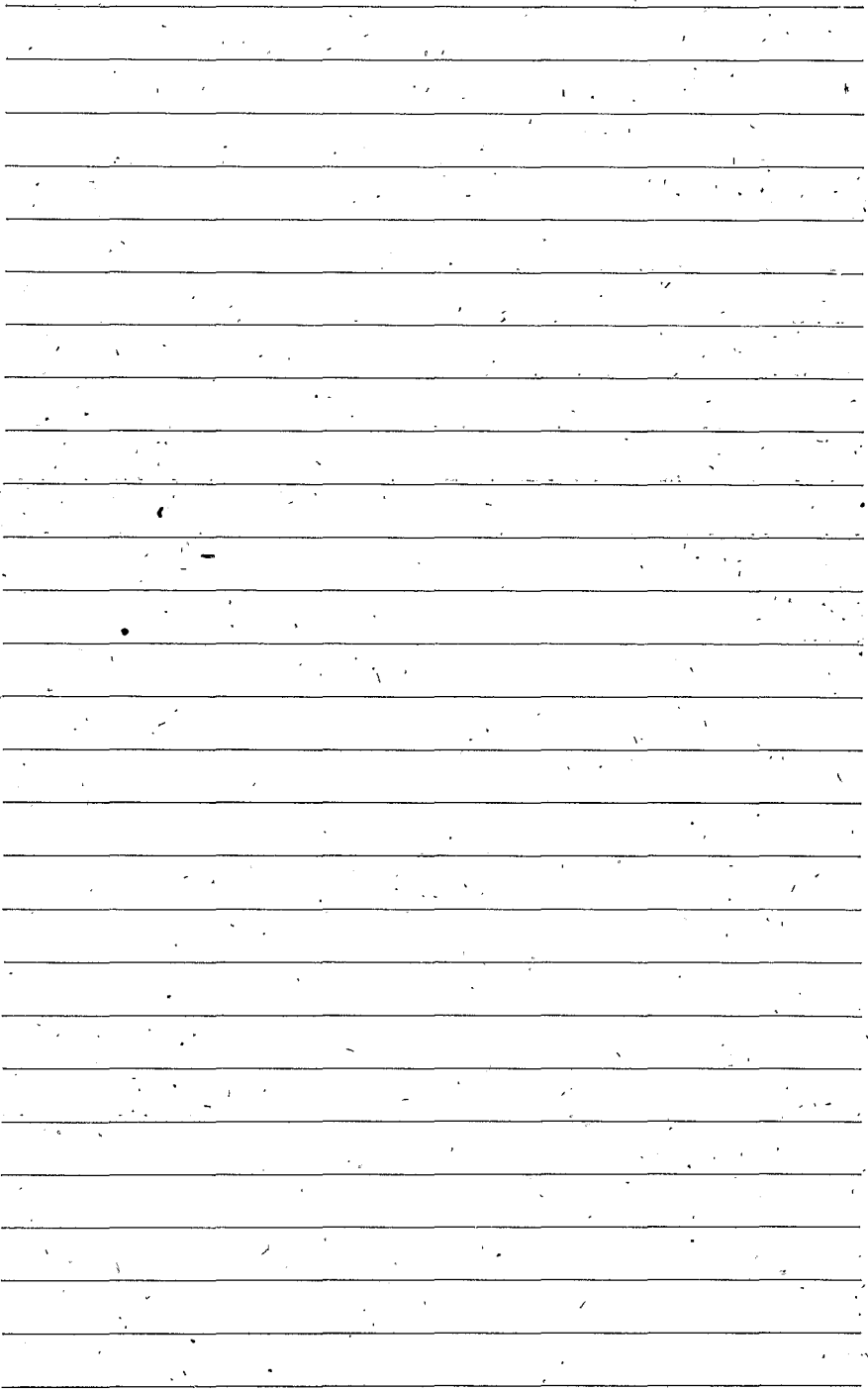
The Biology and Control of Insect Pests of Ohio Farms, Orchards, Gardens, Home Grounds, and Homes

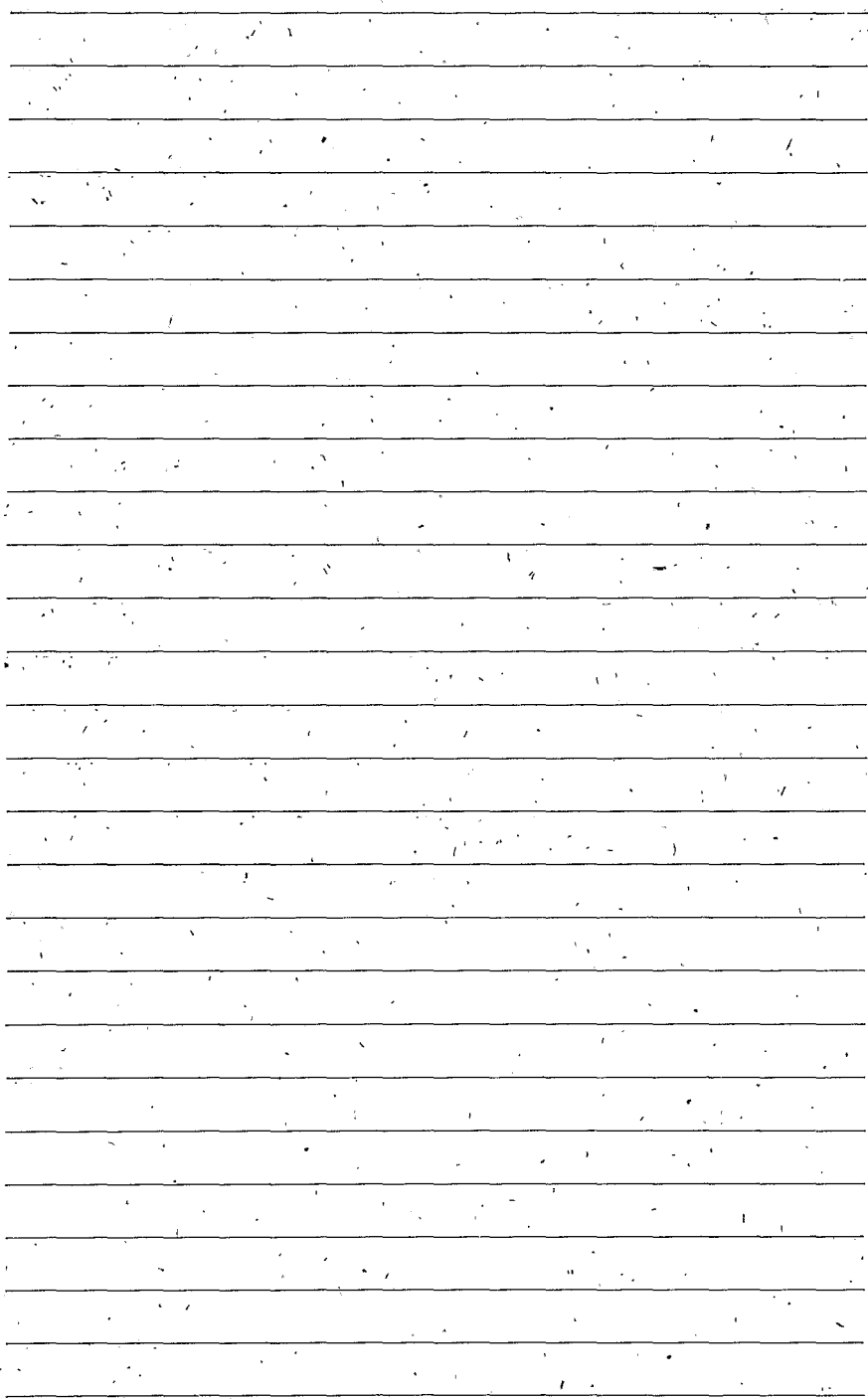
- 356 Some pests of Ohio sheep (1922)
- 388 The striped cucumber beetle (1925)
- 429 The European corn borer and its environment (1928)
- 457 Oriental fruit moth investigations in Ohio. I (1930)
- 486 The garden symphylid (1931)
- 524 The potato scab-gnat (1933)
- 569 Oriental fruit moth investigations in Ohio. II (1936)
- 583 Codling moth biology and control investigations (1937)
- 648 The ring-legged earwig (1944)
- ~~670 Spraying program and pest control for fruit crops (1949)~~

PLANT DISEASES AND THEIR CONTROL

Disease Control of Fruits, Vegetables, Ornamental Plants, Forest and Shade Trees, and Field Crops. Study of Plant Habits, Weeds, and Environment.

- 448 Water soluble arsenic in spray material (1930)
- 451 Control of root-knot nematode in greenhouses (1930)
- 461 The control of celery blights (1930)
- 522 Control of Alternaria blight of ginseng (1933)
- 539 Leaf mold resistance in the tomato (1934)
- 564 An evaporation survey of Ohio (1936)
- 567 The relation of temperature to the effect of hydrogen- and hydroxyl-ion concentration on spore germination and growth (1936)
- 615 Ohio potato diseases (1940)
- 676 The effect of pesticides on cucumber, tomato, and potato plants (1948)
- 677 Medicinal plant culture in Ohio (1948)
- 685 Tomato anthracnose (1949)





This page intentionally blank.

This page intentionally blank.