

UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE
A. C. TRUE, DIRECTOR.



LIST OF STATION PUBLICATIONS
RECEIVED BY THE STATES RELATIONS SERVICE
DURING JANUARY, 1922.

NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- Vitamins and the Daily Diet. By J. W. Read, S. Palmer, and L. Steer. (Arkansas Sta. Bul. 176, pp. 24.)
- Report of the Director, 1921. By E. H. Jenkins. (Connecticut State Sta. Bul. 232, pp. 3-18.)
- Fertilizer Report for 1921. By E. H. Jenkins and E. M. Bailey. (Connecticut State Sta. Bul. 233, pp. 21-109.)
- Annual Report, 1920. (Connecticut State Sta. Rpt. 1920, pp. XVI + 377, pls. 20, figs. 114.)
- Annual Report, 1921. (Delaware Sta. Bul. 129, pp. 30.)
- Peach Disease Control. By J. A. McClintock. (Georgia Sta. Bul. 139, pp. 30, figs. 6.)
- Pimento and Bell Peppers. By E. P. Stuckey and J. A. McClintock. (Georgia Sta. Bul. 140, pp. 31-43, figs. 6.)
- Effect of Temperature of Pasteurization on the Creaming Ability of Milk. By H. A. Harding. (Illinois Sta. Bul. 237, pp. 395-408, figs. 6.)
- Home Economics Extension Service in Illinois. By J. L. Bane. (Illinois Sta. Circ. 248, pp. 3-18, pl. 1.)
- The Measurement of the Volume of Cream on Milk. By H. A. Harding. (Illinois Sta. Circ. 249, pp. 16.)
- Cattle Feeding.--XVII, Winter Steer Feeding, 1920-1921. By J. H. Skinner and F. G. King. (Indiana Sta. Bul. 255, pp. 24, fig. 1.)
- Sheep Feeding.--X, Fattening Western Lambs, 1920-1921. By J. H. Skinner and C. M. Vestal. (Indiana Sta. Bul. 256, pp. 16, figs. 2.)
- Commercial Feeding Stuffs. By J. D. Turner, H. D. Spears, and E. L. Jackson. (Kentucky Sta. Bul. 235, pp. 165-301.)

- Commercial Feeding Stuffs, 1920-21. By J. M. Bartlett. (Maine Sta. Off. Insp. 100, pp. 21-60.)
- The Nutritive Value of Cattle Feeds.--II, Oat By-products for Farm Stock. By J. B. Lindsey and C. L. Beals. (Massachusetts Sta. Bul. 200, pp. 117-135.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and G. E. Lindskog. (Massachusetts Sta. Met. Bul. 396, pp. 4.)
- Dependable Michigan Crop Varieties. By J. F. Cox. (Michigan Sta. Special Bul. 109, pp. 19, figs. 11.)
- The Colorimetric Hydrogen Ion Determination as a Means of Studying Biological Changes in Dairy Products. By L. H. Cooleage. (Michigan Sta. Tech. Bul. 52, pp. 20, figs. 4.)
- Studies in the Diseases of the Reproductive Organs of Cattle. By E. T. Hallman. (Michigan Sta. Tech. Bul. 54, pp. 23, pls. 6.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul. 4 (1921), No. 2, pp. 35-66, figs. 11.)
- Farm Development Studies in Northern Minnesota. By C. G. Worsham and A. Boss. (Minnesota Sta. Bul. 196, pp. 47, figs. 4.)
- Why Not Plant Home Grown Cottonseed? By H. B. Brown. (Mississippi Sta. Circ. 37, pp. 3.)
- Cost of Producing Truck in Covich County, 1921. By J. N. Lipscomb and M. E. Andrews. (Mississippi Sta. Circ. 39, pp. 4.)
- Guide to Soil Experiment Fields. (Missouri Sta. Dept. Guide 1, pp. 12, pl. 1, figs. 2.)
- Manual of the Principal Soils of Missouri. By M. F. Miller and H. H. Krusekopf. (Missouri Sta. [Pamphlet], pp. 15, fig. 1.)
- Pear and Apple Blight in Montana. By D. B. Swingle. (Montana Sta. Circ. 98, pp. 10, figs. 3.)
- Graphic Presentation of Statistics of Farm Products. By H. E. Selby. (Montana Sta. Circ. 99, pp. 46, pl. 1, figs. 48.)
- Poultry Houses. By W. F. Schoppe. (Montana Sta. Circ. 100, pp. 23, figs. 9.)
- Annual Report of the Board of Control, 1920. (Nevada Sta. Rpt. 1920, pp. 16.)
- Attachment of the Abdomen to the Thorax in Diptera. By B. P. Young. (New York Cornell Sta. Mem. 44, pp. 255-306, figs. 77.)

- Typha Insects: Their Ecological Relationships. By P. W. Claassen. (New York Cornell Sta. Mem. 47, pp. 459-531, figs. 86.)
- Thirty-fourth Annual Report, 1921. (New York State Sta. Rpt. 1921, pp. 97 + V.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 9 (1922), No. 47, pp. 8.)
- Ohio Weather for 1920. By W. H. Alexander and C. A. Patton. (Ohio Sta. Bul. 352, pp. 261-354, figs. 63.)
- A New Test for Maturity of the Pear.--Pear Harvesting and Storage Investigations, III. By A. E. Marneek. (Oregon Sta. Bul. 186, pp. 28, figs. 9.)
- Commercial Feeding Stuffs. By B. Youngblood. (Texas Sta. Bul. 281, pp. 5-204.)
- Commercial Fertilizers, Commercial Feeding Stuffs, Agricultural Seed. By J. L. Hills, C. H. Jones, G. F. Anderson, A. S. Lutman. (Vermont Sta. Bul. 223, pp. 3-30.)
- The Yellows Disease of Cabbage in Southwest Virginia. By F. D. Fromme. (Virginia Sta. Bul. 226, pp. 9, figs. 5.)
- The Life History of the Oriental Fruit Moth in Northern Virginia. By L. A. Stearns. (Virginia Sta. Tech. Bul. 21, pp. 3-46, figs. 8.)
- Bi-monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Bimo. Bul. 9 (1922), No. 6, pp. 81-100, figs. 4.)
- Homegrown Feeds for Range Steers. By F. A. Hays. (Wyoming Sta. Bul. 128, pp. 53-75, fig. 1.)

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UNITED STATES DEPARTMENT OF AGRICULTURE
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LIST OF STATION PUBLICATIONS
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- How the Farmer Can Save His Sweet Potatoes and Ways of Preparing It for the Table, By G.W. Carver. (Alabama Tuskegee Sta. Bul. 38, pp. 5-23, figs. 4.)
- Spraying for San Jose Scale. By W.J. Baerg. (Arkansas Sta. Bul. 177, pp. 3-19, figs. 2.)
- Sheep Losses in Colorado Feed Lots.--I, Feeding Experiments. By G.H. Glover and I.E. Newsom. (Colorado Sta. Bul. 270, pp. 3-25.)
- The Mexican Bean Beetle. By G.M. List. (Colorado Sta. Bul. 271, pp. 58, figs. 16.)
- Tuberculosis of Poultry. By C.H. Werkman and W.M. Gibbs. (Idaho Sta. Bul. 126, pp. 12, figs. 6.)
- Publications Available for Free Distribution. (Idaho Sta. Circ. 20, pp. 2.)
- Feeding Farm Work Horses and Mules. By J.L. Edmonds and W.G. Kammlade. (Illinois Sta. Bul. 238, pp. 411-427, figs. 2.)
- A List of Books for the Farmer's Library. (Illinois Sta. Circ. 251, pp. 3-27.)
- Bureau County Soils. By J.G. Mosier et al. (Illinois Sta. Soil Rpt. 20, pp. 72, pls. 3, figs. 12.)
- Stallion Enrollment, X.--Report of Stallion Enrollment Work for the Year 1921 With Lists of Stallions and Jacks Enrolled. (Indiana Sta. Circ. 104, pp. 72, fig. 1.)
- Report of the Director, 1921. (Indiana Sta. Rpt. 1921, pp. 56, figs. 31.)
- Grape Production and Distribution in Western Iowa. By T.J. Maney. (Iowa Sta. Bul. 199, pp. 376-399, figs. 10.)
- Tests of the Wilt Resistance of Different Tomato Varieties. By C.W. Edgerton and C.C. Moreland. (Louisiana Sta. Bul. 184, pp. 3-24, figs. 8.)
- Rust of Antirrhinum. By W.L. Doran. (Massachusetts Sta. Bul. 202, pp. 39-66, pl. 1, figs. 2.)

- Tobacco Wildfire.--Preliminary Report of Investigations. By G.H. Chapman and P.J. Anderson. (Massachusetts Sta. Bul. 203, pp. 67-81, pl. 1.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 397, pp. 4.)
- 1920 and 1921 Experiments with Poultry. By E.P. Clayton, and J.P. Clayton. (Mississippi Sta. Bul. 204, pp. 8, figs. 2.)
- Correlation Between the Yields and Prolificness of Corn Varieties Grown in Mississippi. By H.B. Brown and J.F. O'Kelly. (Mississippi Sta. Circ. 40, pp. 4, figs. 2.)
- Alfalfa Culture (Holly Springs Branch Station). By C.T. Ames. (Mississippi Sta. Circ. 43, pp. 4.)
- Grapes in Mississippi. By J.C.C. Price. (Mississippi Sta. Circ. 44, pp. 4, figs. 3.)
- Investigations on the Hardening Process in Vegetable Plants. By J.T. Rosa, Jr. (Missouri Sta. Res. Bul. 48, pp. 3-97, figs. 16.)
- Fallow Experiments in South Central Montana.--Results from the Experimental Dry Farm, Huntley, Mont. By A.E. Seamans. (Montana Sta. Bul. 142, pp. 24.)
- Inspection of Commercial Feeding Stuffs. By H.R. Kraybill, T.O. Smith, and C.P. Spaeth. (New Hampshire Sta. Bul. 200, pp. 43.)
- Sanitary Practices on the Poultry Plant. By W.C. Thompson and G.W. Hervey. (New Jersey Stas. Hints to Poultrymen, 10(1922), No. 4, pp. 4, fig. 1.)
- Bean Anthracnose. By M.F. Barrus. (New York Cornell Sta. Memoir 42, pp. 97-215, pls. 5, figs. 14.)
- The Botrytis Blight of Tulips. By E.F. Hopkins. (New York Cornell Sta. Memoir 45, pp. 315-361, pl. 1, figs. 29.)
- The Inheritance of Salmon Silk Color in Maize. By E.G. Anderson. (New York Cornell Sta. Memoir 48, pp. 539-554, pls. 4.)
- The Biology of *Ephydra subopaca* Loew. By C. Ping. (New York Cornell Sta. Memoir 49, pp. 561-616, figs. 5.)
- Thirty-ninth Annual Report, 1920. (New York State Sta. Rpt. 1920, pp. VII + 586, pls. 17, figs. 44)
- Studies on the Physiology of Some Plant Pathogenic Bacteria. (North Carolina Sta. Tech. Bul. 20, pp. 47, fig. 1.)
- The Farmer's Credit; A Partial List of Products Which Farmers Have for Sale. (North Carolina Sta. Farmer's Market Bul. 9(1922), No. 48, pp. 9.)

Wheat, Flour, and Bread. By M.K. Corbould. (Ohio Sta. Bul. 350, pp. 185-219, pls. 6, figs. 12.)

Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul. 6(1921), Nos. 11, 12, pp. 161-191, figs. 16.)

Relation of Soil Nitrogen, Nitrification, and Ammonification to Pot Experiments. By G.S. Fraps. (Texas Sta. Bul. 283, pp. 5-51, figs. 3.)

Orchard Soil Management and Fertilization. By O.M. Morris and R. Larsen. (Washington Sta. Pop. Bul. 121, pp. 23, figs. 2.)

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both primary and secondary data collection techniques. The analysis focuses on identifying trends and patterns over time, which is crucial for making informed decisions.

The final part of the document provides a detailed breakdown of the results. It shows that there has been a significant increase in sales volume, particularly in the online channel. This is attributed to the implementation of the new marketing strategy and the improved user experience on the website.



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UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE
A. C. TRUE, DIRECTOR.

LIST OF STATION PUBLICATIONS
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DURING MARCH, 1922.

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- The Olive in Arizona. By F. J. Crider. (Arizona Sta. Bul. 94, pp. 399-528, figs. 20.)
- The Colorado River and Arizona's Interest in Its Development. By G.E.P. Smith. (Arizona Sta. Bul. 95, pp. 527-546, figs. 2.)
- Seed Potatoes for Connecticut. By W.L. Slate, Jr. and B.A. Brown. (Connecticut Storrs Sta. Bul. 107, pp. 51-56, fig. 1.)
- Growing Head Lettuce in Idaho. By C.C. Vincent. (Idaho Sta. Circ. 21, pp. 11, figs. 4.)
- An Explanation of Recent Failures in San Jose Scale Control. By W. A. Ruth. (Illinois Sta. Circ. 252, pp. 4.)
- McHenry County Soils. By J.G. Mosier, R.W. Dickenson, H.W. Stewart, E. Van Alstine, and H.J. Snider. (Illinois Sta. Soil Rpt. 21, pp. 50, pls. 2, figs. 10.)
- Canning Factory Tomatoes. By H. D. Brown. (Indiana Sta. Bul. 259, pp. 20, figs. 8.)
- How to Comply with the Indiana Seed Law. By E.G. Proulx. (Indiana Sta. Circ. 105, pp. 8, figs. 4.)
- Iowa Farm Management Surveys in Blackhawk, Grundy, and Tama Counties. By H. B. Munger. (Iowa Sta. Bul. 198, pp. 355-375 b.)
- A Comparison of Silage and Soiling Crops for Summer Milk Production. By A.C. McCandlish. (Iowa Sta. Bul. 201, pp. 3-8.)
- Vitamins on the Farm.--Their Practical Relation to Live Stock Feeding. By A.R. Lamb and J.M. Evvard. (Iowa Sta. Circ. 73, pp. 8, figs. 4.)
- Varieties of Corn in Kansas. By C.C. Cunningham and B.S. Wilson. (Kansas Sta. Bul. 227, pp. 3-40, figs. 9.)
- A Comparison of the Calcium Content of Some Virgin and Cultivated Soils of Kentucky by an Improved Method for the Estimation of this Element. By O. M. Shedd. (Kentucky Sta. Res. Bul. 236, pp. 305-330.)
- Poultry Experiments, Observations, Notes and Plans. By R.H. Waite. (Maryland Sta. Bul. 244, pp. 40, figs. 29.)

- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.F. Lindszog. (Massachusetts Sta. Met. Bul. 398, pp. 4.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul. 4 (1922), No. 3, pp. 71-113, figs. 13.)
- Special Report of the Upper Peninsula Experiment Station. By D.L. McMillan and G.W. Putnam. (Michigan Sta. Spec. Bul. 110, pp. 40, figs. 26.)
- Studies in City Milk Distribution. By S.J. Brownell. (Michigan Sta. Spec. Bul. 111, pp. 24, fig. 1.)
- An Experiment in Improving the Milk Supply of a City Milk Plant. By L.H. Cooledge and O.T. Goodwin. (Michigan Sta. Spec. Bul. 112, pp. 3-16, figs. 3.)
- Seed Studies with Irish Potatoes. By J.T. Rosa, Jr. (Missouri Sta. Bul. 191, pp. 32, figs. 5.)
- Testing Fertilizers for Missouri Farmers: 1921. By F. B. Mumford. (Missouri Sta. Bul. 192, pp. 70, fig. 1.)
- Monograph of the North American Species of *Deraeocoris* (*Heteroptera miridae*). By H.H. Knight. (Minnesota Sta. Tech. Bul. 1, pp. 75-210, figs. 47.)
- Spreading and Adherence of Arsenical Sprays. By W. Moore. (Minnesota Sta. Tech. Bul. 2, pp. 3-50, fig. 1.)
- Respiration of Shelled Corn. By C.H. Bailey. (Minnesota Sta. Tech. Bul. 3, pp. 3-44, figs. 12.)
- Twenty-ninth Annual Report, 1921. (Minnesota Sta. Rpt. 1921, pp. 117.)
- Report of Northwest Experiment Station, Crookston, 1920. By C. G. Selvig. (Minnesota Sta. Bul: Crookston Series 14 (1921), No. 5, pp. 4-114, figs. 20.)
- Report of West Central Experiment Station, Morris, 1920. By P. E. Miller. (Minnesota Sta. Rpt. 1920, pp. 5-36.)
- Report of Northeast Demonstration Farm and Experiment Station, Duluth, 1920. By M.J. Thompson. (Minnesota Sta. Rpt. 1920, pp. 7-28, figs. 5.)
- Thirty-fourth Annual Report, 1921. (Mississippi Sta. Rpt. 1921, pp. 56.)
- Dairy Calves.--Consumption of Food and Gain by Different Breeds. General Notes. Feed, and Care. By E. Brintnall. (Mississippi Sta. Bul. 200, pp. 16, fig. 1.)
- The Sweet Potato for South Mississippi. By E. B. Ferris and F. B. Richardson. (Mississippi Sta. Bul. 206, pp. 3-20.)
- Productive Methods for Oats in Missouri. By C.A. Helm and L. J. Stadler. (Missouri Sta. Circ. 105, pp. 16, fig. 1.)

Winter Wheat in Western Nebraska. By L.L. Zook. (Nebraska Sta. Bul. 179, pp. 37, figs. 9.)

A Study of the Distribution of Hydrocyanic Acid Gas in Greenhouse Fumigation. By W.H.W. Komp. (New Jersey Stas. Bul. 355, pp. 22, figs. 15.)

Analyses of Commercial Fertilizers, Fertilizer Supplies, and Home Mixtures, 1921. By C.S. Cathcart. (New Jersey Stas. Bul. 358, pp. 5-55.)

Analyses of Commercial Fertilizers and Ground Bone, Analyses of Agricultural Lime. By C.S. Cathcart. (New Jersey Stas. Bul. 361, pp. 5-52.)

Corn Growing in New Jersey. By G.W. Musgrave. (New Jersey Stas. Circ. 128, pp. 22, figs. 13.)

Spray Calendar for Apples and Quinces. By T. J. Headlee, M. T. Cook, and A.J. Farley. (New Jersey Stas. Circ. 132, pp. 4, figs. 3.)

Spray Calendar for Peaches, by T. J. Headlee, M.T. Cook, and A. J. Farley. (New Jersey Stas. Circ. 133, pp. 4, figs, 3.)

Spray Calendar for Pears. By T. J. Headlee, M.T. Cook, and A.J. Farley. (New Jersey Stas. Circ. 134, pp. 4, figs. 3.)

Spray Calendar for Cherries. By T.J. Headlee, M.T. Cook, and A.J. Farley. (New Jersey Stas. Circ. 135, pp. 3, figs. 2.)

Spray Calendar for Grapes. By A.J. Farley, M.T. Cook, and T.J. Headlee. (New Jersey Stas. Circ. 136, pp. 3, fig. 1.)

Control of the Cabbage Maggot. By L.G. Schermerhorn and C.H. Nissley. (New Jersey Stas. Circ. 138, pp. 4, figs. 2.)

Report of Egg-laying Contests for 1921. By R.R. Hannas. (New Jersey Stas. Hints to Poultrymen, 10 (1922), No. 5, pp. 4.)

Drainage in the Mesilla Valley of New Mexico. By D.W. Bloodgood. (New Mexico Sta. Bul. 129, pp. 37, figs. 22.)

A Classification of the Cultivated Varieties of Barley. By R.G. Wiggans. (New York Cornell Sta. Mem. 46, pp. 365-456, pls. 5, figs. 22.)

The Relative Growth-promoting Value of the Protein of Coconut Oil Meal, and of Combinations of It With Protein from Various Other Feeding Stuffs. By L.A. Maynard and F.M. Fronda. (New York Cornell Sta. Mem. 50, pp. 621-633, figs. 4.)

The Hog Louse, Haematopinus suis Linne: Its Biology, Anatomy, and Histology. By L. Florence. (New York Cornell Sta. Mem. 51, pp. 637-743, figs. 9.)

Studies in Pollen, with Special Reference to Longevity. By H. E. Knowlton. (New York Cornell Sta. Mem. 52, pp. 747-793.)

- ✓ Sweet Potatoes. (North Carolina Sta. Farmers' Market Bul. 9 (1922), No. 49, pp. 8.)
- Preliminary Rat Virus Investigations. (North Dakota Sta. Bul. 155, pp. 4.)
- A Chemical Study of Broom Corn and Broom Corn Silage. By C.T. Dowell and W. G. Friedemann. (Oklahoma Sta. Bul. 135, pp. 7.)
- Sheep Feeding Investigations.--Comparative Rations for Wintering Breeding Ewes. By A.E. Darlow. (Oklahoma Sta. Bul. 136, pp. 7.)
- Stomach Worms in Sheep. By J. E. Guberlet. (Oklahoma Sta. Bul. 137, pp. 16, figs. 5.)
- Alfalfa Experiment. By M.A. Beeson, A. Daane, and D.R. Johnson. (Oklahoma Sta. Bul. 138, pp. 13, figs. 3.)
- Cattle Feeding Investigations.-- Comparative Value of Silage for Making Beef. Silages Used: Sunflower, Corn, Kafir, Cane and Derso. By W.L. Blizzard. (Oklahoma Sta. Bul. 139, pp. 6.)
- Vegetable Gardening in Oregon. By A.G.B. Bouquet. (Oregon Sta. Circ. 23, pp. 3-43, figs. 12.)
- Potato Diseases in Oregon and Their Control. By M.B. McKay. (Oregon Sta. Circ. 24, pp. 52, figs. 38.)
- The Principal Stock-poisoning Plants of Oregon. By W.E. Lawrence. (Oregon Sta. Bul. 187, pp. 3-43, pls. 2, figs. 9.)
- The Wheat Bunt Problem in Oregon. By D.E. Stephens and H.M. Woolman. (Oregon Sta. Bul. 188, pp. 5-42, figs. 5.)
- Fertilizer Experiments. By C.P. Blackwell and T. S. Buie. (South Carolina Sta. Bul. 209, pp. [77], figs. 52.)
- The Composition and Feeding Value of Wheat By-products. By G. S. Fraps. (Texas Sta. Bul. 282, pp. 5-42.)
- Availability of Potash in Some Soil-forming Minerals. By G. S. Fraps. (Texas Sta. Bul. 284, pp. 5-16, figs. 3.)
- Bimonthly Bulletin of the Western Washington Experiment Station, Fuyallup, Wash. (Washington Sta., West. Wash. Sta. Bimo. Bul. 9 (1922), No. 7, pp. 101-124, fig. 1.)
- Winter Care of Bees in Wisconsin. By H.F. Wilson. (Wisconsin Sta. Bul. 338, pp. 25, figs. 7.)
- Rural Primary Groups.-- A Study of Agricultural Neighborhoods. By J. H. Kolb. (Wisconsin Sta. Res. Bul. 51, pp. 3-31, figs. 22.)
- Sunflowers.-- Their Culture and Use. By A. E. Vass. (Wyoming Sta. Bul. 129, pp. 75-107, figs. 2.)

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- Use of Wooden Constructed Fire Heated Hot Beds for Production of Sweet Potato Plants. By C. L. Isbell and W. D. Kimbrough. (Alabama Sta. Bul. 217, pp. 6, figs. 3.)
- Annual Report, 1921. (California Sta. Rpt. 1921, pp. 198, pl. 1.)
- Harvesting and Handling California Cherries for Eastern Shipment. By W. P. Duruz. (California Sta. Circ. 232, pp. 19, figs. 14.)
- Artificial Incubation. By J. E. Dougherty. (California Sta. Circ. 233, pp. 10, figs. 4.)
- Winter Injury to Young Walnut Trees During 1921-1922. By L. D. Batchelor. (California Sta. Circ. 234, pp. 5, figs. 3.)
- Soil Analysis and Soil and Plant Interrelations. By D. R. Hoagland. (California Sta. Circ. 235, pp. 7.)
- The Home Vegetable Garden. By R. A. McGinty. (Colorado Sta. Bul. 276, pp. 3-36, figs. 5.)
- Twenty-first Annual Report, 1921. (Connecticut State Sta. Bul. 234, pp. 111-204, pls. 16, figs. 6.)
- Experiments in Dusting v. Spraying on Apples and Peaches in Connecticut in 1921. By W. E. Britton, M. P. Zappe, and E. M. Stoddard. (Connecticut State Sta. Bul. 235, pp. 207-226, pls. 6, figs. 5.)
- Infectious Abortion in Cattle. By L. F. Rettger, G. C. White, and L. M. Chapman. (Connecticut Storrs Sta. Bul. 108, pp. 59-88.)
- Does Carbon Dioxide in Carbonated Milk and Milk Products Destroy Bacteria. By M. J. Prucha, J. M. Brannon, and A. S. Ambrose. (Illinois Sta. Circ. 256, pp. 8.)
- Nineteen Noxious Weeds of Indiana.--Description, Eradication, and Control of the Nineteen Weeds Designated as Noxious in the Indiana Seed Law. By A. A. Hansen. (Indiana Sta. Circ. 106, pp. 32, figs. 20.)
- Potato Growing in Iowa as Affected by Temperature. By A. T. Erwin and R. A. Rudnick. (Iowa Sta. Bul. 206, pp. 71-84, figs. 10.)

- Control of the Potato Leafhopper. By F.A. Fenton and A. Hartzell. (Iowa Sta. Circ. 77, pp. 4, figs. 4.)
- The Removal of Mineral Plant Food by Natural Drainage Waters. By J.S. McHargue and A.M. Peter. (Kentucky Sta. Res. Bul. 237, pp. 333-362, fig. 1.)
- Thirty-third Annual Report, 1921. (Louisiana Sta. Rpt. 1921, pp. 32.)
- Studies in Milk Secretion.--XII, Transmitting Qualities of Holstein-Friesian Sires for Milk Yield, Butterfat Percentage, and Butterfat. By J.W. Gowen and M.R. Covell. (Maine Sta. Bul. 301, pp. 253-308, figs. 2.)
- A Meadow Caterpillar. By E.M. Patch. (Maine Sta. Bul. 302, pp. 309-320, pls. 2.)
- Rose Bushes in Relation to Potato Culture. By E.M. Patch. (Maine Sta. Bul. 303, pp. 321-344, pl. 1.)
- Commercial Fertilizers, 1921. By J.M. Bartlett. (Maine Sta. Off. Insp. 101, pp. 61-80.)
- Thirty-fourth Annual Report, 1921. (Maryland Sta. Rpt. 1921, pp. XIX + 186, figs. 38.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Bul. 399, pp. 4.)
- Report of Work at South Mississippi Experiment Station for 1921. By E.B. Ferris. Mississippi Sta. Bul. 201, pp. 3-20.)
- Spraying Experiments for the Control of Pecan Scab. By D.C. Neal. (Mississippi Sta. Bul. 203, pp. 3-14, figs. 9.)
- The Costs of Crop Production in Missouri, 1921. By B.H. Frame. (Missouri Sta. Bul. 190, pp. 15, figs. 2.)
- Certain Responses of Apple Trees to Nitrogen Applications of Different Kinds and at Different Seasons. By H.D. Hooker, Jr. (Missouri Sta. Res. Bul. 50, pp. 3-18.)
- Grain Mixtures and Root Crops Under Irrigation. By P.V. Cardon. (Montana Sta. Bul. 143, pp. 3-14.)
- Farm Management Studies.--Lessons from Irrigated Farms in the Billings Region. By E.L. Currier. (Montana Sta. Circ. 101, pp. 36, figs. 28.)
- Summer Tillage in Montana. By C. McKee. (Montana Sta. Circ. 102, pp. 4.)
- Natural Incubation and Brooding. By W.F. Schoppe. (Montana Circ. 103, pp. 8, figs. 3.)
- Hog Houses for Nebraska. By O.W. Sjogren and I.D. Wood. (Nebraska Sta. Circ. 14, pp. 20, figs. 30.)

- Insect Pests of Stored Grains and Their Control. By M.H. Swenk. (Nebraska Sta. Circ. 15, pp. 14, figs. 9.)
- Inspection of Commercial Fertilizers for 1921. By H.R. Kraybill, T.O. Smith, and C.P. Spaeth. (New Hampshire Sta. Bul. 201, pp. 16.)
- Results of Seed Tests for 1921. By M.G. Eastman. (New Hampshire Sta. Bul. 202, pp. 24.)
- Annual Report, 1921. (New Hampshire Sta. Bul. 203, pp. 31, figs. 2.)
- Analyses of Materials Sold as Insecticides and Fungicides During 1921. By C.S. Cathcart and R.L. Willis. (New Jersey Stas. Bul. 357, pp. 22.)
- The Sclerotinia Rot of Celery. By R.F. Poole. (New Jersey Stas. Bul. 359, pp. 27, figs. 17.)
- A Study of Poultry Diseases. By W.C. Thompson and L.S. Dodson. (New Jersey Stas. Bul. 363, pp. 61, figs. 20.)
- Fertilizer Registrations for 1922. By C.S. Cathcart. (New Jersey Stas. Bul. 364, pp. 5-29.)
- Creamery Inspection in New Jersey. By F.C. Eutton. (New Jersey Stas. Circ. 129, pp. 16, figs. 4.)
- A Mosquito Manual. (New Jersey Stas. Circ. 130, pp. 3-16, figs. 22.)
- Potato Scab and Methods for Its Control. By W.H. Martin. (New Jersey Stas. Bul. 131, pp. 3-12, figs. 3.)
- State Laws Concerning the Sale of Seeds and Legume Inoculants. By J.G. Fiske. (New Jersey Stas. Circ. 137, pp. 15, fig. 1.)
- The European Pileworm.--A Dangerous Marine Borer in Barnegat Bay, New Jersey. By T.C. Nelson. (New Jersey Stas. Circ. 139, pp. 15, figs. 9.)
- Potato Growing in New Jersey. By W.H. Martin. (New Jersey Stas. Circ. 140, pp. 31, figs. 13.)
- Monthly Standards for New Jersey Poultry Farms. By W.H. Allen. (New Jersey Stas. Hints to Poultrymen, 10(1922), No. 6, pp. 4.)
- Practical Facts for the Squab Raiser. By W.C. Thompson. (New Jersey Stas. Hints to Poultrymen, 10(1922), No. 7, pp. 4, fig. 1.)
- A Study of the Composition of Official Samples of Feeding-stuffs and Mixtures Collected in 1920. By L.L. VanSlyke. (New York State Sta. Bul. 482, pp. 3-23.)
- Milking Machines: VI, Leakage from the Vacuum Pipe Line into the Pail as a Source of Contamination of Milk. By R.S. Breed and J.W. Bright. (New York State Sta. Bul. 483, pp. 3-19, figs. 9.)

- Further Studies on the Effect of Missing Hills, in Potato Fields and on the Variation in the Yield of Potato Plants from Halves of the Same Seed Tuber. By F.C. Stewart. (New York State Sta. Bul. 489, pp. 3-52, figs. 3.)
- Control of Apple Red Bugs by Dusting. By P.J. Parrott, H. Glasgow, and G.F. MacLeod. (New York State Sta. Bul. 490, pp. 3-30, pls. 5.)
- Potato Seed Experiments: Whole Small Tubers v. Pieces of Large Tubers of the Same Plant. By F.C. Stewart. (New York State Sta. ^{Tech}Bul. 491, pp. 3-30.)
- The Relation Between Bacterial Counts from Milk as Obtained by Microscopic and Plate Methods. By A.H. Robertson. (New York State Sta. Bul. 86, pp. 3-21, pls. 5.)
- Fortieth Annual Report, 1921. By R.W. Thatcher. (New York State Sta. Rpt. 1921, pp. 40.)
- Study Manner and Time to Market Hogs for Best Results. A Partial List of Products which Farmers have for Sale. (North Carolina Sta. Farmers' Market Bul. 9(1922), No. 50, pp. 8.)
- Monthly Bulletins of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Buls. 7(1922), Nos. 1, 2, pp. 40, figs. 8; Nos. 3, 4, pp. 42-72, figs. 9.)
- Fortieth Annual Report, 1921. (Ohio Sta. Bul. 353, pp. XXX + [4].)
- Heat for Control of Cereal Insects. By W.H. Goodwin. (Ohio Sta. Bul. 354, pp. 18.)
- Irrigation of Alfalfa. By W.L. Powers and W.W. Johnston. (Oregon Sta. Bul. 189, pp. 3-36, figs. 22.)
- Lepidoptera Injurious to the Apple in Pennsylvania. By S.W. Frost. (Pennsylvania Sta. Bul. 169, pp. 16, figs. 6.)
- A Study of the Influence of Physical Soil Factors and of Various Fertilizer Chemicals on the Growth of the Carnation Plant. By F.R. Pember and G.E. Adams. (Rhode Island Sta. Bul. 137, pp. 3-94.)
- Acme Wheat. By A.N. Hume. (South Dakota Sta. Bul. 194, pp. 325-356, figs. 3.)
- Feeding Dairy Cattle, By T.M. Olson. (South Dakota Sta. Bul. 195, pp. 357-372, figs. 2.)
- Availability of some Nitrogenous and Phosphatic Materials. By G.S. Fraps. (Texas Sta. Bul. 237, pp. 5-16, figs. 2.)
- Dusting Vegetable Crops. By H.H. Zimmerley, F.W. Geise, and C.R. Willey. (Virginia Truck Sta. Buls. 35 and 36, pp. 193-208, figs. 6.)
- The Silt Loam Soils of Eastern Washington and Their Management. By F.J. Sievers and H.F. Holtz. (Washington Sta. Bul. 166, pp. 62, figs. 25.)
- The Effect of Alkali on Portland Cement. (Wyoming Sta. Circ. 16, pp. 4, figs. 2.)
- Feeding Yearling Steers. (Wyoming Sta. Circ. 17, pp. 4.)
- Fifty-first Annual Report, 1921. (Wyoming Sta. Rpt. 1921, pp. 111-140, fig. 1.)

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UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE
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LIST OF STATION PUBLICATIONS
RECEIVED BY THE STATES RELATIONS SERVICE
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NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

Report of the Alaska Agricultural Experiment Stations, 1920. (Alaska Sta. Rpt. 1920, pp. V + 75, pls. 7.)

Thirty-fourth Annual Report, 1921. (Georgia Sta. Rpt. 1921, pp. 26, figs. 6.)

Farm Costs and Relative Profitableness of Seven Crops, Twin Falls County, Idaho, 1919-20. By B. Hunter and S. B. Nuckols. (Idaho Sta. Research Bul. 2, pp. 24.)

Sweet Clover. By R. K. Bonnett and H. W. Hulbert. (Idaho Sta. Circ. 22, pp. 14, figs. 3.)

The Important Orchard Insects of Idaho and Their Control. By R. H. Smith. (Idaho Sta. Circ. 23, pp. 8.)

The Root Maggot of Radishes, Turnips, Cabbage, and Related Vegetables. By R. H. Smith. (Idaho Sta. Circ. 24, pp. (3), figs. 2.)

The Control of Household Insects. By W. P. Flint. (Illinois Sta. Circ. 257, pp. 24, figs. 15.)

Orchard Practice for the Control of Blister Canker of Apple Trees. By H. W. Anderson. (Illinois Sta. Circ. 258, pp. 16, figs. 12.)

Commercial Feeding Stuffs. By E. G. Proulx et al. (Indiana Sta. Bul. 260, pp. 16, figs. 2.)

Seed Analyses, 1913-1921. By L. H. Pammel and C. M. King. (Iowa Sta. Bul. 203, pp. 27-43.)

The Relation Between the Volatile and Total Acidity in Starters and in Cultures of S. lacticus. By W. A. Cordes and B. W. Hammer. (Iowa Sta. Research Bul. 66, pp. 130-136.)

Sources of the Flavor in Butter. By B. W. Hammer. (Iowa Sta. Research Bul. 67, pp. 139-144.)

- Burnt or Caramel Flavor of Dairy Products. By B. W. Hammer and W. A. Cordes. (Iowa Sta. Research Bul. 68, pp. 147-156.)
- A study of the Control of Crown Gall on Apple Grafts in the Nursery. By I. I. W. Melhus and T. J. Maney. (Iowa Sta. Research Bul. 69, pp. 159-172.)
- The Acid-base Balance in Animal Nutrition--I and II. By A. R. Lamb and J. M. Evvard. (Iowa Sta. Research Bul. 70, pp. 174-192.)
- The Acid-base Balance in Animal Nutrition, III. By A. R. Lamb and J. M. Evvard. (Iowa Sta. Research Bul. 71, pp. 194-208, figs. 4.)
- Hubam Cover. By F. S. Wilkins. (Iowa Sta. Circ. 76, pp. 16, figs. 7.)
- Dry Rot of Corn. By I. E. Melhus and L. W. Durrell. (Iowa Sta. Circ. 78, pp. 8, figs. 6.)
- Soil Survey of Iowa. Report No. 20--Hamilton County Soils. By W. H. Stevenson and P. E. Brown. (Iowa Sta. Soil Survey Rpt. 20, pp. 54, pl. 1, figs. 11.)
- Soil Survey of Iowa. Report No. 21--Louisa County Soils. By W. H. Stevenson and P. E. Brown. (Iowa Sta. Soil Survey Rpt. 21, pp. 70, pl. 1, figs. 12.)
- Strains of Standup White Burley Tobacco Resistant to Root-rot. By W. D. Velleau and E. J. Kinney. (Kentucky Sta. Circ. 28, pp. 3-16, figs. 6.)
- The Seasonal March of the Climatic Conditions of a Greenhouse, as Related to Plant Growth. By E. S. Johnston. (Maryland Sta. Bul. 245, pp. 41-98, figs. 7.)
- Garlic and Other Factors Influencing Grades of Wheat. By J. E. Metzger. (Maryland Sta. Bul. 246, pp. 99-116, figs. 3.)
- Fertilizers for Maryland Soils. By A. G. McCall. (Maryland Sta. Bul. 247, pp. 117-151, figs. 7.)
- Thirty Years' Experience with Sulfate of Ammonia. By F. W. Morse. (Massachusetts Sta. Bul. 204, pp. 83-98, pls. 2.)
- The Nutritive Value of Cattle Feeds.--III, Dried Apple Pomace for Farm Stock. By J. B. Lindsey, C. L. Beals, and J. G. Archibald. (Massachusetts Sta. Bul. 205, pp. 135-148.)
- Eighth Report of the Cranberry Station. By H. J. Franklin. (Massachusetts Sta. Bul. 206, pp. 149-168.)
- Inspection of Commercial Feedstuffs. By P. H. Smith and E. M. Bradley. (Massachusetts Sta. Bul. 15 (Control Series), pp. 34.)
- Inspection of Commercial Fertilizers. By H. D. Haskins, L. S. Walker, and R. F. Swift. (Massachusetts Sta. Bul. 16, (Control Series), pp. 5-39.)

- Inspection of Lime Products Used in Agriculture. By E. D. Haskins, L. S. Walker, and R. W. Swift. (Massachusetts Sta. Bul. 17, (Control Series), pp. 8, fig. 1.)
- Development and Pathogenesis of the Onion Smut Fungus. By P. J. Anderson. (Massachusetts Sta. Tech. Bul. 4, pp. 99-133, figs. 6.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. F. Ostrander and G. E. Lindskog. (Massachusetts Sta. Met. Bul. 400, pp. 4.)
- Apples in North Mississippi. (Holly Springs Branch Station). By J. C. C. Price and C. T. Ames. (Mississippi Sta. Circ. 41, pp. 4, figs. 2.)
- The Influence of the Plane of Nutrition on the Maintenance Requirement of Cattle. By A. G. Hogan, W. D. Salmon, and H. D. Fox. (Missouri Sta. Research Bul. 51, pp. 5-48, pls. 3, figs. 5.)
- The Home Vegetable Garden as a Business Proposition. By J. T. Rosa, jr. (Missouri Sta. Bul. 193, pp. 16, figs. 8.)
- Better Methods of Tomato Production. By J. T. Rosa, jr. (Missouri Sta. Bul. 194, pp. 24, figs. 9.)
- Productive Methods for Soy Beans in Missouri. By W. C. Etheridge and C. A. Helm. (Missouri Sta. Bul. 195, pp. 32, figs. 13.)
- Experiments in Field Plot Technic for the Preliminary Determination of Comparative Yields in the Small Grains. By L. J. Stadler. (Missouri Sta. Research Bul. 49, pp. 5-78, figs. 4.)
- Seed Potatoes for Better Yields. By J. T. Rosa, jr. (Missouri Sta. Circ. 106, pp. 8, figs. 3.)
- Horse-flies and Cattle. By S. B. Doten. (Nevada Sta. Bul. 102, pp. 13, figs. 8.)
- Annual Report of the Board of Control for the Fiscal Year Ending June 30, 1921. By C. H. Gorman. (Nevada Sta. Rpt. 1921, pp. 20, figs. 2.)
- Laboratory Studies of the Toxicity of Some Sulphur Fungicides. By W. L. Doran. (New Hampshire Sta. Tech. Bul. 19, pp. 3-11.)
- Recent Studies on Peach Yellow and Little Peach. By M. A. Blake, M. T. Cock, and C. H. Connors. (New Jersey Stas. Bul. 356, pp. 62, pls. 2, figs. 28.)
- Summer Production in the Laying Pens. By R. R. Hannas. (New Jersey Stas. Hints to Poultrymen 10 (1922) No. 8, pp. 4, fig. 1.)
- Dry Farm Crop Production in Eastern New Mexico. By J. C. Cole. (New Mexico Sta. Bul. 130, pp. 32, figs. 5.)

Thirty-second Annual Report. (New Mexico Sta. Rpt. 1921, pp. 5-48.)

Production of New Strains of Corn for New York. By C. H. Myers, H. H. Love, and F. P. Bussell. (New York Cornell Sta. Bul. 403, pp. 205-268, figs. 12.)

Farmer Must Solve His Own Credit Problems. Also a Partial List of Products Which Farmers Have for Sale. (North Carolina Sta. Farmers' Market Bul. 9 (1922), No. 51, pp. 6.)

Self-feeding Swine. By W. L. Robison. (Ohio Sta. Bul. 355, pp. 19-50, figs. 7.)

Some Pests of Ohio Sheep. By D. C. Mote. (Ohio Sta. Bul. 356, pp. 51-79, figs. 18.)

Seed Potato Improvement. By G. R. Hyslop. (Oregon Sta. Circ. 25, pp. 8, fig. 1.)

Two Years of Research (for the Biennium ending June 30, 1921). (Pennsylvania Sta. Bul. 170, pp. 32.)

The Substitution of Stable Manure by Fertilizers, Green Manures, and Peat. By B. L. Hartwell and F. K. Crandall. (Rhode Island Sta. Bul. 188, pp. 3-23, fig. 1.)

Annual Report of the Director, 1921: (South Dakota Sta. Rpt. 1921, pp. 3-37.)

Cotton Variety Experiments, 1912-1920, Substation No. 7, Spur, Tex. By G. F. Freeman and R. E. Jackson. (Texas Sta. Bul. 288, pp. 3-17.)

The Blueweed and Its Eradication. By R. E. Karper. (Texas Sta. Bul. 292, pp. 3-13, figs. 5.)

Bimonthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Bimo. Bul., 10 (1922), No. 1, pp. 22, figs. 2.)

New Pages in Farming. By H. L. Russell and F. B. Morrison. (Wisconsin Sta. Bul. 339, pp. 3-145, figs. 40.)

Wisconsin Oats. By B. D. Leith and E. J. Delwiche. (Wisconsin Sta. Bul. 340, pp. 3-70, figs. 8.)

The Use of Fertilizers on Dairy Farms. By A. R. Whitson and G. Richards. (Wisconsin Sta. Bul. 341, pp. 3-24, figs. 4.)

Milk-- the Best Food. By H. Steenbock and E. B. Hart. (Wisconsin Sta. Bul. 342, pp. 3-19, figs. 10.)

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UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE
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LIST OF STATION PUBLICATIONS
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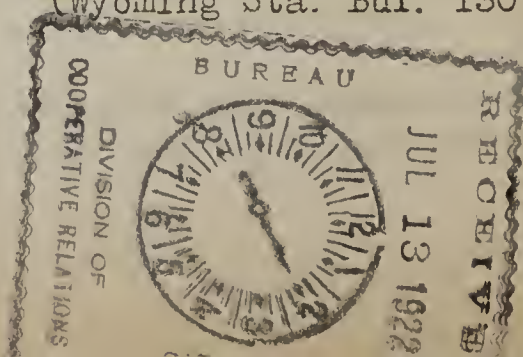
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- A New Ascochyta Disease of Cotton. By J.A. Elliott. (Arkansas Sta. Tech. Bul. 178, pp. 3-18, figs. 5.)
- Eastern Strawberry Louse. By W.J. Baerg. (Arkansas Sta. Tech. Bul. 179, pp. 3-16, figs. 4.)
- The Relative Cost of Making Logs from Small and Large Timber. By D. Bruce. (California Sta. Bul. 339, pp. 317-333, fig. 1.)
- Control of the Pocket Gopher in California. By J. Dixon. (California Sta. Bul. 340, pp. 337-350, figs. 5.)
- Hog Feeding Experiments. By J.I. Thompson and E.C. Voorhies. (California Sta. Bul. 342, pp. 371-396, fig. 1.)
- The Common Hawks and Owls of California from the Standpoint of the Rancher. By J. Dixon. (California Sta. Circ. 236, pp. 17, figs. 13.)
- Directions for the Tanning and Dressing of Furs. By J. Dixon. (California Sta. Circ. 237, pp. 5, figs. 3.)
- The Apricot in California. By W.L. Howard. (California Sta. Circ. 238, pp. 53, figs. 8.)
- Harvesting and Handling Apricots and Plums for Eastern Shipment. By W.P. Duruz. (California Sta. Circ. 239, pp. 24, figs. 21.)
- Harvesting and Handling California Pears for Eastern Shipment. By W.P. Duruz. (California Sta. Circ. 240, pp. 19, figs. 10.)
- Harvesting and Handling California Peaches for Eastern Shipment. By W.P. Duruz. (California Sta. Circ. 241, pp. 21, figs. 13.)
- Marmalade Juice and Jelly Juice from Citrus Fruits. By W.V. Cruess and L. Singh. (California Sta. Circ. 243, pp. 8, figs. 3.)
- Central Wire Bracing for Fruit Trees. By L.C. Barnard. (California Sta. Circ. 244, pp. 10, figs. 8.)

- Vine Pruning Systems. By F.T. Bioletti. (California Sta. Circ. 245, pp. 4, figs. 3.)
- Desirable Qualities of California Barley for Export. By J.W. Gilmore and L.J. Fletcher. (California Sta. Circ. 246, pp. 11, fig. 1.)
- Replacing Missing Vines. By F.T. Bioletti. (California Sta. Circ. 249, pp. 4, fig. 1.)
- Orchard Survey of the Northeastern District of Colorado. By E.P. Sandsten and C.M. Tompkins. (Colorado Sta. Bul. 272, pp. 3-28.)
- Orchard Survey of the Arkansas Valley District. By E.P. Sandsten and C.M. Tompkins. (Colorado Sta. Bul. 273, pp. 3-24.)
- Thirty-fourth Annual Report, 1921. (Colorado Sta. Rpt. 1921, pp. 43.)
- Management of Meadows and Pastures. By G.L. Schuster. (Delaware Sta. Bul. 130, pp. 16, figs. 3.)
- Work and Progress of the Agricultural Experiment Station for the Year Ended December 31, 1921. (Idaho Sta. Bul. 129, pp. 15.)
- The Eelworm Disease of Red Clover. By R.H. Smith. (Idaho Sta. Bul. 130, pp. 3-14, figs. 6.)
- Iroquois County Soils. By J.G. Mosier, S.V. Holt, E. Van Alstine, and H.J. Snider. (Illinois Sta. Soil Rpt. 22, pp. 60, pls. 4, figs. 7.)
- The Federal Farm Loan System.--An Outline of Its Organization and Methods of Operation. By I. Wright. (Illinois Sta. Circ. 259, pp. 3-20.)
- Tomato Mosaic. By M. W. Gardner and J.B. Kendrick. (Indiana Sta. Bul. 261, pp. 24, figs. 13.)
- The Onion Thrips in Iowa. By J.L. Horsfall and F.A. Fenton. (Iowa Sta. Bul. 205, pp. 53-68, figs. 11.)
- Adsorption at Liquid-vapor and Liquid-liquid Interfaces and Some Related Phenomena. By H.H. King. (Kansas Sta. Tech. Bul. 9, pp. 41, figs. 7.)
- Commercial Agricultural Seeds, 1921. Insecticides and Fungicides, 1920 and 1921. By W.J. Morse. (Maine Sta. Off. Insp. 102, pp. 81-100.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 401, pp. 4.)
- A Phoma Root Rot of Celery. By C.W. Bennett. (Michigan Sta. Tech. Bul. 53, pp. 5-40, figs. 11.)

- The Comparative Pathogenicity of Several Strains of Bacterium abortus (Bang).
By I.F. Huddelson. (Michigan Sta. Tech. Bul. 55, pp. 3-14.)
- Quarterly Bulletin of the Agricultural Experiment Station. (Michigan Sta. Quart.
Bul. 4 (1922), No. 4, pp. 117-160, figs. 9.)
- Sweet Clover. By C.R. Megee. (Michigan Sta. Spec. Bul. 113, pp. 14, figs. 6.)
- Spray and Practice Outline. By C.P. Halligan, R.H. Pettit, and G.H. Coons.
(Michigan Sta. Spec. Bul. 114, pp. 3-28, figs. 9.)
- Dusting and Spraying Experiments of 1920 and 1921. By W.C. Dutton and S. Johnston.
(Michigan Sta. Spec. Bul. 115, pp. 54, figs. 24.)
- Insects Infesting Stored Food Products. By R.N. Chapman. (Minnesota Sta. Bul. 198,
pp. 76, figs. 58.)
- Report from Holly Springs Branch Experiment Station for 1921. By C.T. Ames.
(Mississippi Sta. Bul. 202, pp. 29, figs. 5.)
- Cotton Experiments. By H.B. Brown and J.F. O'Kelly. (Mississippi Sta. Bul. 205,
pp. 16, figs. 2.)
- Blackstrap Molasses for Dairy Cattle. By E. Brintnall. (Mississippi Sta. Circ. 38,
pp. 4.)
- Practical Points in Poultry Breeding. By G.W. Hervey. (New Jersey Stas. Hints to
Poultrymen, 10(1922), No. 9, pp. 4, fig. 1.)
- Results of Seed and Legume Inoculant Inspection for 1921. By J.G. Fiske.
(New Jersey Stas. Bul. 360, pp. 5-37.)
- The Chemical Composition of the Soils of the Belvidere Area in New Jersey.
By A.W. Blair and H.C. McLean. (New Jersey Stas. Bul. 362, pp. 16, figs. 2.)
- Recent Investigations on the Control of Three Important Field Diseases of Sweet
Potatoes. By R.F. Foole. (New Jersey Stas. Bul. 365, pp. 39, figs. 10.)
- The Chemical Composition of the Soils of the Millville Area in New Jersey. By
A.W. Blair and H.C. McLean. (New Jersey Stas. Bul. 366, pp. 15, figs. 4.)
- Apple Aphids Controlled with the Delayed Dormant Spray. By J.D. Luckett, F.Z.
Hartzell, and L.F. Strickland. (New York State Sta. Pop. Bul. 487, pp. 8, figs. 2.)
- Leaky Valves on Milking Machines Contaminate Milk. By J.D. Luckett, R.S. Breed, and
J.W. Bright. (New York State Sta. Bul. 488, pp. 8, figs. 3.)
- Dusting v. Spraying for Red Bugs. By J.D. Luckett, P.J. Parrott, H. Glasgow, and
G.F. MacLeod. (New York State Sta. Pop. Bul. 490, pp. 8, pl. 1, fig. 1.)
- Do Whole Small Potatoes Make Good Seed? By J.D. Luckett and F.C. Stewart.
(New York State Sta. Pop. Bul. 491, pp. 7, fig. 1.)

- Milking Machines: VII, Further Studies on Methods of Sterilization. By A.H. Robertson, M.W. Finch, and R.S. Breed. (New York State Sta. Bul. 492, pp. 36.)
- Changes in the Composition and Cost of Fertilizers in New York From 1914 to 1921. By L.I. Van Slyke. (New York State Sta. Bul. 493, pp. 12.)
- A Study of the Metabolism and Respiratory Exchange in Poultry During Vitamin Starvation and Polyneuritis. By R.J. Anderson and W.L. Kulp. (New York State Sta. Tech. Bul. 88, pp. 22.)
- Sell Wool Cooperatively. Also a Partial List of Products Which Farmers Have for Sale. (North Carolina Sta. Farmers' Market Bul. 9(1922), No. 52, pp. 5.)
- Forty-fourth Annual Report, 1921. (North Carolina Sta. Rpt. 1921, pp. 80.)
- The Bionomics and Control of the Onion Maggot. By J.R. Eyer. (Pennsylvania Sta. Bul. 171, pp. 16, figs. 5.)
- Some Phases of Breeding Work and Seed Production of Irish Potatoes. By W.J. Young. (South Carolina Sta. Bul. 210, pp. 20, figs. 4.)
- Potatoes in South Dakota. By A.T. Evans, G. Janssen, and M. Fowlds. (South Dakota Sta. Bul. 196, pp. 373-415, figs. 13.)
- Grain Sorghums v. Corn for Fattening Lambs. By J.M. Jones and R.A. Brewer. (Texas Sta. Bul. 285, pp. 3-23.)
- Rice Bran for Fattening Hogs. By D.W. Williams and O.E. McConnell. (Texas Sta. Bul. 286, pp. 3-15.)
- The Effect of Rock Phosphate Upon the Corn Possibility of the Phosphoric Acid of the Soil. By G.S. Fraps. (Texas Sta. Bul. 289, pp. 3-17, figs. 5.)
- Digestibility of the Sugars, Starches, Pentosans, and Proteids of Some Feeding Stuffs. By G.S. Fraps. (Texas Sta. Bul. 290, pp. 3-21, figs. 2.)
- Digestion Experiments. By G.S. Fraps. (Texas Sta. Bul. 291, pp. 3-16, figs. 2.)
- Shelling Percentage in Grain Sorghum. By A.B. Conner and R.E. Karper. (Texas Sta. Bul. 294, pp. 3-11, figs. 2.)
- Feeding Standards for Milk Production. By W.B. Ellett, C.W. Holdaway, and W.G. Harris. (Virginia Sta. Tech. Bul. 23, pp. 5-52.)
- Thirty-first Annual Report, 1921. (Washington Sta. Bul. 167, pp. 64.)
- Native Feeds for Fattening Lambs. By F.A. Hays. (Wyoming Sta. Bul. 130, pp. 16, fig. 1.)



UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE
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LIST OF STATION PUBLICATIONS
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- Results of Fertilizer Experiments. By M. Nelson and W. H. Sachs. (Arkansas Sta. Bul. 180, pp. 23.)
- Studies on the Irrigation of Citrus Groves. By E. E. Thomas. (California Sta. Bul. 341, pp. 353-370.)
- Poultry Feeding. By J. E. Dougherty. (California Sta. Circ. 242, pp. 22, fig. 1.)
- A Contribution to Our Knowledge of the Syrphidae of Colorado. By C. R. Jones. (Colorado Sta. Bul. 269, pp. 72, pls. 8.)
- Orchard Survey of the Southwestern District of Colorado. By E. P. Sandsten and C. M. Tompkins. (Colorado Sta. Bul. 274, pp. 21.)
- Orchard Survey of the Western District of Colorado. By E. P. Sandsten and C. M. Tompkins. (Colorado Sta. Bul. 275, pp. 45.)
- Fixation of Nitrogen in Colorado Soils. --Occurrence of Nitrates on Rocks. By W. P. Hadden (Colorado Sta. Bul. 277, pp. 48.)
- Twenty-sixth Report on Food Products and Fourteenth Report on Drug Products. By E. M. Bailey. (Connecticut State Sta. Bul. 236, pp. 227-300.)
- Control of White Pine Blister Rust in Connecticut. By W. O. Filley and H. W. Hicock. (Connecticut State Sta. Bul. 237, pp. 305-326, pls. 5.)
- Report on Commercial Feeding Stuffs. By E. M. Bailey. (Connecticut State Sta. Bul. 238, pp. 329-361.)
- Wildfire of Tobacco in Connecticut. By G. P. Clinton and F. A. McCormick (Connecticut State Sta. Bul. 239, pp. 363-423, pls. 4.)
- Avocado Diseases. By H. E. Stevens. (Florida Sta. Bul. 161, pp. 23, figs. 6.)
- The Flower Thrips. By J. R. Watson. (Florida Sta. Bul. 162, pp. 25-51, figs. 4.)
- Bunch Velvet Beans to Control Root-knot. By J. R. Watson. (Florida Sta. Bul. 163, pp. 53-59, figs. 2.)

- The Bean Leaf-hopper and Hopperburn with Methods of Control. By A. H. Beyer.
(Florida Sta. Bul. 164, pp. 61-88, figs. 16.)
- Germ Content of Milk as Influenced by Visible Dirt. By H. A. Harding and
M. J. Prucha. (Illinois Sta. abs. Bul. 236, pp. 4.)
- Recent Crop Yields from Soil Experiment Field in Illinois. By H. J. Snider.
(Illinois Sta. Circ. 260, pp. 8.)
- The Serum Treatment of Hog Cholera. By R. Graham. (Illinois Sta. Circ. 261,
pp. 11, figs. 3.)
- Bread Club Manual. By E. G. Van Aken and H. M. Phillips. (Illinois Sta. Circ.
262, pp. 35, figs. 12.)
- The Organization and Direction of Clothing Clubs. By H. M. Phillips and
F. Mallory. (Illinois Sta. Circ. 263, pp. 30, figs. 7.)
- DeKalb County Soils. By J. G. Mosier, H. W. Stewart, E. E. Deturk, and H. J.
Snider. (Illinois Sta. Soil Rpt. No. 23, pp. 54, pls. 2, figs. 7.)
- Commercial Fertilizers. By E. G. Proulx et al. (Indiana Sta. Bul. 262, pp.
63, figs. 2.)
- Soy beans as a Home-grown Supplement for Dairy Cows. By A. C. McCandlish,
E. Weaver, and L. A. Lunde. (Iowa Sta. Bul. 204, pp. 47-52.)
- Alternate Hosts and Biologic Specialization of Crown Rust in America. By
I. E. Melhus, S. M. Dietz, and F. Willey. (Iowa Sta. Research Bul. 72,
pp. 211-236, figs. 2.)
- Relation of Crop Yields to Quantity of Irrigation Water in Southwestern Kansas.
By G. S. Knapp. (Kansas Sta. Bul. 228, pp. 29, figs. 11.)
- Culling Farm Poultry. By L. F. Payne. (Kansas Sta. Circ. 93, pp. 34, figs.
23.)
- Injury to Foliage by Arsenical Sprays.--1, The Lead Arsenates. By H. T. Fernald
and A. I. Bourne. (Massachusetts Sta. Bul. 207, pp. 19, figs. 23.)
- Leaf Characters of Apple Varieties. By J. K. Shaw. (Massachusetts Sta. Bul.
208, pp. 20-31, pls. 12, fig. 1.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station.
By J. E. Ostrander and G. E. Linskog. (Massachusetts Sta. Met. Bul. 403,
pp. 4.)
- Control of Bacillary White Diarrhea, 1920-21. By G. E. Gage. (Massachusetts
Sta. Bul. 18, [Control Series], pp. 8.)
- Fruit and Vegetable Diseases. By E. C. Stakman, J. G. Leach, and J. L. Seal.
Minnesota Sta. Bul. 199, pp. 75, figs. 38.)

- The College Dairy Herd.--Development, Care, and Management. By J. O. Tretsven. (Montana Sta. Bul. 145, pp. 24, figs. 8.)
- Reading Matter in Nebraska Farm Homes. By J. O. Rankin. (Nebraska Sta. Bul. 180, pp. 28, figs. 9.)
- The Preparation of Laboratory Specimens as an Aid to the Diagnosis of Animal Diseases. By L. Vanes and L. V. Skidmore. (Nebraska Sta. Circ. 16, pp. 14, figs. 6.)
- The Common Intestinal Roundworm of Swine. By H. M. Martin. (Nebraska Sta. Circ. 17, pp. 11, figs. 3.)
- Thirty-fifth Annual Report of the Nebraska Station. (Nebraska Sta. Rpt. 1922, pp. 58.)
- Studies in Termite Control. By W. C. O'Kane and W. A. Osgood. (New Hampshire Sta. Bul. 204, pp. 20, figs. 8.)
- Fertilizer Inspections in New Jersey from 1880 to 1921. By C. S. Cathcart. (New Jersey Sta. Bul. 368, pp. 24, figs. 6.)
- Chemotropism of Mosquitoes. By W. Rudolfs. (New Jersey Sta. Bul. 367, pp. 23, fig. 1.)
- Analyses of Commercial Feeding Stuffs and Registration for 1922. By C. S. Cathcart. (New Jersey Sta. Bul. 369, pp. 70.)
- Six years of Life History Studies on the Codling Moth. By A. B. Fite. (New Mexico Sta. Bul. 127, pp. 183, figs. 16.)
- An Economic Study of Dairying on 149 Farms in Broome County, New York. By E. G. Misner. (New York Cornell Sta. Bul. 409, pp. 271-443, figs. 22.)
- The Proof of the Pudding. (North Carolina Sta. Farmers' Market Bul. 9 (1922), No. 53, pp. 9, figs. 2.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul. 7(1922), Nos. 5, 6, pp. 73-104, figs. 7.)
- Wheat Growing After Fallow in Eastern Oregon. By D. E. Stephens and G. R. Hyslop. (Oregon Sta. Bul. 190, pp. 35, figs. 13.)
- Sunflower Silage for Milk Production. By S. I. Bechdel. (Pennsylvania Sta. Bul. 172, pp. 16.)
- The Reaction of Soils in the Field as Influenced by the Long-continued Use of Fertilizer Chemicals. By P. S. Burgess. (Rhode Island Sta. Bul. 189, pp. 35.)
- Inspection of Commercial Feeds. By P. H. Wessels. (Rhode Island Sta. Ann. Feed Circ., 1922, pp. 16.)

Cultivation and Care of Trees on Texas Farms. By H. Ness. (Texas Sta. Bul. 293, pp. 76, pls. 14, figs. 19.)

Violets of North America. By E. Brainerd. (Vermont Sta. Bul. 224, pp. 172, pls. 25, figs. 66.)

Truck Crop Investigations.-- Cabbage Strain Tests. By H. H. Zimmerley. (Virginia Truck Sta. Buls. 37 and 38, pp. 211-220.)

A Study of the Influence of the Lime-magnesia Ratio on Soils under Continuous Cultivation. By H. H. Hill. (Virginia Sta. Tech. Bul. 24, pp. 15, fig. 1.)

Bimonthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Bimo. Bul. 10 (1922), No. 2, pp. 25-48, figs. 12.)

John's Disease a Cattle Menace. By B. A. Beach and E. G. Hastings. (Wisconsin Sta. Bul. 343, pp. 22, figs. 6.)

UNITED STATES DEPARTMENT OF AGRICULTURE
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LIST OF STATION PUBLICATIONS
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NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- Poisonous Action of Red Buckeye on Horses, Mules, Cattle, Hogs, and Fish. By D. T. Cary. (Alabama Sta. Bul. 218, pp. 20.)
- Farm Helps from Experiments. By B. Knapp. (Arkansas Sta. Bul. 181, pp. 103, figs. 36.)
- Cold Storage as an Aid to the Marketing of Plums. By E. L. Overholser. (California Sta. Bul. 344, pp. 427-263, figs. 9.)
- Some Common Errors in Vine Pruning and Their Remedies. By F. T. Bioletti. (California Sta. Circ. 243, pp. 8, figs. 6.)
- The Relationship Between the Weight and the Hatching Quality of Eggs. By L. C. Dunn. (Connecticut Storrs Sta. Bul. 109, pp. 91-114.)
- Vegetable Growing in Guam. By G. Briggs. (Guam Sta. Bul. 2, pp. 60, pls. 17.)
- The Measurement of Water.--A Hand Book for Ditch Riders and Water Users. By W. G. Steward. (Idaho Sta. Bul. 127, pp. 32, figs. 19.)
- Spider Mites Affecting Orchard and Garden Fruits. By R. H. Smith. (Idaho Sta. Circ. 25, pp. 8, figs. 3.)
- Aphids Attacking Stone Fruits in Idaho and Methods for Their Control. By R. H. Smith. (Idaho Sta. Circ. 26, pp. 11, figs. 9.)
- Relative Value of Certain Protein Feeds for Egg Production. By R. T. Parkhurst. (Idaho Sta. Circ. 27, pp. 8, fig. 1.)
- The Effect of Available Nitrogen on the Protein Content and Yield of Wheat. By R. E. Neidig and R. S. Snyder. (Idaho Sta. Research Bul. 1, pp. 56, pls. 7.)
- How Greece Can Produce More Food. By C. G. Hopkins. (Illinois Sta. Bul. 239, pp. 429-467, figs. 16.)
- The Production and Utilization of Manure on Illinois Dairy Farms. By H. A. Ross. (Illinois Sta. Bul. 240, pp. 473-489, figs. 3.)

- Thirty-fourth Annual Report of the Illinois Station. 1921. (Illinois Sta. Rpt., 1921, pp. 20.)
- Breeding Rhode Island Reds for Type and Egg Production. By H. A. Bittenbender. (Iowa Sta. Bul. 202, pp. 9-24, figs. 21.)
- Beef Cattle Equipment. By W. A. Foster and R. S. Stephenson. (Iowa Sta. Circ. 75, pp. 31, figs. 28.)
- Annual Report of the Iowa Station, 1921. (Iowa Sta. Rpt., 1921, pp. 64.)
- Analyses of Commercial Fertilizers. By H. E. Curtis, H. R. Allen, and R. H. Ridgell. (Kentucky Sta. Bul. 238, pp. 365-503.)
- Vitality of Spermatozoa. By W. S. Anderson. (Kentucky Sta. Bul. 239, pp. 36, figs. 7.)
- Land Prices and Land Speculation in the Bluegrass Region of Kentucky. By G. W. Forster. (Kentucky Sta. Bul. 240, pp. 39-74, figs. 4.)
- Official Inspections 103. (Maine Sta. Official Inspections, 103, pp. 24.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and H. E. Shepard. (Massachusetts Sta. Bul. 403 pp. 4.)
- The Quarterly Bulletin. (Michigan Sta. Quarterly Bul., Vol. 5, No. 1, pp. 46, figs. 18.)
- Spraying for Hopperburn. By J. E. Kotila. (Michigan Sta. Circ. 48, pp. 4, figs. 2.)
- The Hessian Fly. By R. H. Pettit. (Michigan Sta. Bul. 49, pp. 8, fig. 1.)
- Wages of Farm Labor. By C. L. Holmes. (Minnesota Sta. Technical Bul. 4, pp. 65, figs. 12.)
- Nitrogenous Fertilizer Experiments. By C. B. Walker, E. C. Ewing, and I. P. Trotter. (Mississippi Sta. Bul. 207, pp. 24, figs. 2.)
- Alfalfa in the Delta. By G. B. Walker. (Mississippi Sta. Bul. 209, pp. 14, figs. 5.)
- Vegetables and Truck for Home Use. By W. E. Ayres. (Mississippi Sta. Bul. 210, pp. 16, figs. 10.)
- The New Jersey Suburban Unit House. By W. P. Thorp. (New Jersey Stas. Hints to Poultrymen, 10 (1922), No. 10, pp. 4, figs. 6.)
- Raising Ducks and Geese on New Jersey Farms. By W. C. Thompson. (New Jersey Stas. Hints to Poultry men, 10 (1921), No. 11, pp. 4, fig. 1.)

- The Feeding of Dry-farm Crops to Range Steers in Eastern New Mexico. By J. L. Lantow and H. J. Clemmer. (New Mexico Sta. Bul. 131, pp. 10, figs. 3.)
- Studies on Insects Affecting the Fruit of the Apple with Particular Reference to the Characteristics of the Resulting Scars. By H. H. Knight. (New York Cornell Sta. Bul. 410, pp. 449-498, pls. 40.)
- Horse Raising in Colonial New England. By D. Phillips. (New York Cornell Sta. Mem. 54, pp. 889-941.)
- Methods and Cost of Raising Pigs to the Weaning Age. By D. T. Gray and E. H. Hostetler. (North Carolina Sta. Bul. 244, pp. 15, figs. 3.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 9 (1922), No. 54, pp. 8, fig. 1.)
- The Northern Pig from Birth to Market. By J. H. Shepperd. (North Dakota Sta. Bul. 156, pp. 28, figs. 11.)
- Experiment Station Progress.--Report of the Director, 1920-21. By P. F. Trowbridge. (North Dakota Sta. Bul. 159, pp. 44, figs. 6.)
- Report of the Edgeley Substation, 1921. By O. A. Thompson. (North Dakota Sta. Bul. 161, pp. 12.)
- Dissemination of Fire Blight. By H. A. Gossard and R. C. Walton. (Ohio Sta. Bul. 357, pp. 79-126, figs. 16.)
- Winter Rations for Breeding Ewes. By J. W. Hammond. (Ohio Sta. Bul. 358, pp. 125-196, figs. 16.)
- A Bacterial Rosette Disease of Lettuce. By R. C. Thomas. (Ohio Sta. Bul. 359, pp. 197-214, figs. 8.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. No. Bul. 7 (1922), Nos. 7, 8, pp. 105-136, figs. 13.)
- Thirtieth Annual Report, 1921. (Oklahoma Sta. Annual Rpt., 1921, pp. 32, figs. 3.)
- Methods of Interpreting Yield Records in Apple Fertilization Experiments. By R. D. Anthony and J. H. Waring. (Pennsylvania Sta. Bul. 173, pp. 42, figs. 3.)
- Thirty-fourth Annual Report, 1921. (Rhode Island Sta. Annual Rpt., 1921, pp. 13.)
- Fertilizer Experiments with Cotton. By C. P. Blackwell. (South Carolina Sta. Bul. 211, pp. 22, fig. 1.)

- Varieties of Corn and Their Adaptability to Different Soils. By C. A. Mooers.
(Tennessee Sta. Bul. 126, pp. 39, figs. 15.)
- Correlation Between External Body Characters and Annual Egg-production in White
Leghorn Fowls. By R. M. Sherwood. (Texas Sta. Bul. 295, pp. 14.)
- Silage Experiments. By T. B. Hutcheson and T. K. Wolfe. (Virginia Sta. Bul.
227, pp. 16, fig. 1.)
- The Dusting of Wheat for Bunt or Stinking Smut. By F. D. Heald and L. J. Smith.
(Washington Sta. Bul. 168, pp. 15, figs. 5.)
- Better Cherry Yields. By R. H. Roberts. (Wisconsin Sta. Bul. 344, pp. 30,
figs. 20.)
- The Influence of Soil Temperature on Potato Scab. By L. R. Jones, H. H.
McKinney, and H. Fellows. (Wisconsin Sta. Research Bul. 53, pp. 35, pls. 4,
figs. 9.)
- Effects of Alkali and Weathering upon the Wool of Range Sheep. By J. A. Hill.
(Wyoming Sta. Bul. 131, pp. 16.)
- The Regain of Unwashed Wool. By J. A. Hill. (Wyoming Sta. Bul. 132, pp. 35-54.)

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- Clearing Cut-over Lands in Baldwin County. By E. C. Easter and M. L. Nichols. (Alabama Sta. Circ. 45 pp. 4.)
- Second Annual Report of the Georgia Station, 1921. (Georgia Coastal Plain Sta. Bul. 2, pp. 29, figs. 13.)
- The Farm Septic Tank. By J. C. Wooley and W. M. Gibbs. (Idaho Sta. Bul. 128, pp. 18, figs. 12.)
- Eighth Annual Report of the Dairy Department Creamery License Division. By R. L. Hammond. (Indiana Sta. Circ. 107, pp. 16, figs. 2.)
- Russian Knapweed.--A New Weed in Kansas. By R. L. Hensel and Mrs. E. P. Harling. (Kansas Sta. Circ. 94, pp. 4, figs. 2.)
- Filling Silos. By J. B. Fitch. (Kansas Sta. Circ. 95 pp. 8, figs. 3.)
- Thirty-third Annual Report, 1920. (Kentucky Sta. Rpt. 33 (1921), pt. II, pp. 320, figs. 19, pls. 12.)
- Thirty-fourth Annual Report, 1921. (Kentucky Sta. Rpt. 34 (1921), pt. I, pp. 53.)
- Tomatoes for Market and Canning. By H. A. Jones. (Maryland Sta. Bul. 248, pp. 153-187, figs. 9.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and H. H. Shepard. (Massachusetts Sta. Met. Bul. 404, pp. 4.)
- Roup in Fowls. By A. J. Durant. (Missouri Sta. Bul. 196, pp. 12, figs. 2.)
- The Brown Bark Spot of Fruit Trees. By D. B. Swingle and H. E. Morris. (Montana Sta. Bul. 146, pp. 22, figs. 6.)
- Milling and Baking Studies with Wheat.--Report of Progress. By W. O. Whitcomb, W. F. Day, and M. J. Blish. (Montana Sta. Bul. 147, pp. 23, figs. 7.)

- Growth Studies of Dairy Heifers.--Effect of Light and Heavy Feeding of Wide and Narrow Rations. (Nebraska Sta. Bul. 181, pp. 22, figs. 5.)
- Studies of Immunity Against Hemorrhagic Septicemia. By L. Van Es and H. M. Martin. (Nebraska Sta. Research Bul. 21, pp. 38, figs. 2.)
- A Study of the Environmental Conditions Influencing the Development of Stem Rust in the Absence of an Alternate Host.--I, The Viability of the Urediniospores of *Puccinia Graminis Tritici* Form III. By G. L. Peltier. (Nebraska Sta. Research Bul. 22, pp. 15, figs. 3.)
- The Genetics of Squareheadedness and of Density in Wheat, and the Relation of These to Other Characters. By S. Boshnakian. (New York Cornell Sta. Mem. 53, pp. 801-882, figs. 12.)
- Insects and Other Animal Pests Injurious to Field Beans in New York. By I. M. Hawley. (New York Cornell Sta. Mem. 55, pp. 949-1037, pls. 3, figs. 17.)
- Growing Irrigated Crops in Harney Valley. By O. Shattuck and D. W. Ritchie. (Oregon Sta. Bul. 191, pp. 24, figs. 15.)
- Rural Organization.--A Study of Primary Groups in Wake County, N. C. By C. C. Zimmerman and C. C. Taylor. (North Carolina Sta. Bul. 245, pp. 42, figs. 9.)
- The Gloomy Scale. By Z. P. Metcalf. (North Carolina Sta. Tech. Bul. 21, pp. 22, figs. 15.)
- Analyses of Commercial Fertilizers. By R. N. Brackett and H. M. Stackhouse. (South Carolina Sta. Bul. 212, pp. 43.)
- Rations for Weanling Pigs. By L. V. Starkey and W. D. Salmon. (South Carolina Sta. Bul. 213, pp. 8.)
- Comparison of Shelled Corn, Rice Meal, and Velvet Beans for Fattening Steers. By L. V. Starkey and W. D. Salmon. (South Carolina Sta. Bul. 214, pp. 8, fig. 1.)
- Milk Testing in Practice. By H. M. Jones and T. H. Wright. (South Dakota Sta. Bul. 197, pp. 418-431, figs. 12.)
- Duty-of-water Investigations on Coal Creek, Utah. By Arthur Fife. (Utah Sta. Bul. 181, pp. 22, figs. 11.)
- Blackfire and Wildfire of Tobacco and Their Control. By F. D. Fromme and S. A. Wingard. (Virginia Sta. Bul. 228, pp. 19, pls. 2, figs. 9.)
- Truck Crop Investigations.--Storing and Bedding Sweet Potato Stock. By F. W. Geise. (Virginia Truck Sta. Bul. 39-40, pp. 223-234, figs. 8.)
- Bimonthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Bimo. Bul. 10(1922), No. 3, pp. 50-64, figs. 3.)

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Colonization and Rural Development in California. By E. Mead, C. F. Shaw, R. L. Adams, and J. W. Gregg. (California Sta. Circ. 247, pp. 72, figs. 13.)

Regarding Connecticut Sweet-corn Seed.. By E. H. Jenkins. (Connecticut State Sta. Bul. Immed. Inform., 16, pp. 2.)

Forty-fifth Annual Report, 1921. (Connecticut State Sta. Rpt. 45 (1921), pp. 445, pls. 31, figs. 11.)

The Effect of Hydrogen Ion Concentration Upon the Growth of Seedlings. By L. W. Tarr and S. C. Noble. (Delaware Sta. Bul. 131, pp. 52, figs. 11.)

Cabbage Wilt and Stem Rot in Delaware. By T. F. Manns. (Delaware Sta. Bul. 132, pp. 24, figs. 13.)

Cattle Feeding Barns and Shelters. By W. A. Foster and R. S. Stephenson. (Iowa Sta. Circ. 74, pp. 23, pls. 2, figs. 25.)

Abstracts of Papers not Included in Bulletins, Finances, Meteorology, Index. (Maine Sta. Bul. 304, pp. 345-372+XII.)

Commercial Feeding Stuffs, 1921-22. By J. H. Bartlett. (Maine Sta. Off. Insp. 104, pp. 26-43.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and G. E. Lindskog. (Massachusetts Sta. ^{Met}Bul. 405, pp. 4.)

The Agriculture of the Upper Peninsula.--Its Present Development and Possibilities. By J. W. Weston, D. L. McMillan, and G. W. Putnam. (Michigan Sta. Spec. Bul. 116, pp. 82, figs. 5C.)

The Chinch Bug. By R. H. Pettit. (Michigan Sta. Circ. Bul. 51, pp. 2, figs. 2.)

Hairy Vetch. By C. R. Megee. (Michigan Sta. Circ. 50, pp. 8, figs. 4.)

Bacteriology and Pathology of Sterility in Cattle. By D. C. Beaver. (Minnesota Sta. Tech. Bul. 5, pp. 91, pls. 12.)

- The Determination of Biologic Forms of Puccinia Graminis on Triticum Spp.
By E. C. Stakman and M. N. Levine. (Minnesota Sta. Tech. Bul. 8, pp. 10,
fig. 1.)
- Peanuts. By E. B. Ferris. (Mississippi Sta. Bul. 208, pp. 14.)
- Cotton Experiments, 1921. By W. E. Ayres. (Mississippi Sta. Circ. 42, pp. 8,
figs. 2.)
- Improvements in the Methods of Preparing and Using Grasshopper Baits. By
J. R. Parker. (Montana Sta. Bul. 148, pp. 19, fig. 1.)
- One-night Camps vs. Established Bed Grounds on Nevada Sheep Ranges. By C. E.
Fleming. (Nevada Sta. Bul. 103, pp. 21, figs. 9.)
- Diffusion of Carbon Bisulphide in Soil. By W. C. O'Kane. (New Hampshire Sta.
Tech. Bul. 20, pp. 36, figs. 21.)
- Bordeaux Mixture.--II, Stimulatory Action. By O. Butler. (New Hampshire Sta.
Tech. Bul. 21, pp. 50.)
- Sweet Potato Diseases in New Jersey. By R. F. Bole. (New Jersey Stas. Circ.
141, pp. 31, figs. 24.)
- Creamery Inspection in New Jersey.--Third Annual Report. By F. C. Button.
(New Jersey Stas. Circ. 143, pp. 16, figs. 2.)
- Feeding the Laying Flocks. By W. C. Thompson. (New Jersey Stas. Hints to Poultry-
men. 10 (1922), No. 12, pp. 4.)
- Annual Report of New Jersey Stations, 1921. (New Jersey Stas. Rpt. 1921, pp.
XXXI+475, pls. 18, figs. 12.)
- Corn Culture. By G. R. Quesenberry. (New Mexico Sta. Bul. 132, pp. 43, figs. 11.)
- Practical Suggestions for Sterilizing Milking Machine Tubes. By J. D. Lockett.
(New York State Sta. Bul. 492, (Pop. Ed.) pp. 8.)
- Fermentation and Preservation of Manure. By R. C. Collison and H. J. Conn.
(New York State Sta. Bul. 494, pp. 74, pls. 6, fig. 1.)
- Acid Phosphate, A Good Manure Preservative. By J. D. Lockett. (New York State
Sta. Bul. 494 (Pop. Ed.), pp. 7, fig. 1.)
- Review of the Bacteriological Aspects of Cheese Ripening. By G. J. Hucker.
(New York State Sta. Tech. Bul. 39, pp. 36.)
- The Types of Bacteria Found in Commercial Cheddar Cheese. By G. J. Hucker.
(New York State Sta. Tech. Bul. 90, pp. 38.)

- A Study, by the Crop Survey Method, of Factors Influencing the Yield of Potatoes. By E. V. Hardenburg. (New York Cornell Sta. Memoir 57, pp. 1143-1279, figs. 11.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 9 (1922), No. 56, pp. 8.)
- Livestock Judging Contests. By J. H. Shepperd. (North Dakota Sta. Bul. 157, pp. 31, figs. 4.)
- Report of the Dickinson Substation, 1920-21. By L. Moomaw. (North Dakota Sta. Bul. 160, pp. 32, figs. 4.)
- North Dakota Weeds. By O. A. Stevens. (North Dakota Sta. Bul. 162, pp. 44, figs. 45.)
- The Demonstration Farms.--Sixteenth Annual Report, 1921. By E. Olson. (North Dakota Sta. Bul. 163, pp. 54.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul. 7 (1922), Nos. 9, 10, pp. 137-168, figs. 8.)
- Fattening Steers. By E. L. Potter and R. Withycombe. (Oregon Sta. Bul. 193, pp. 18, figs. 2.)
- The Crown Rot of Rhubarb Caused by *Phytophthora cactorum*. By W. S. Beach. (Pennsylvania Sta. Bul. 174, pp. 23, figs. 25.)
- Influence of Purebred Dairy Sires. By T. M. Olson and G. C. Biggar. (South Dakota Sta. Bul. 198, pp. 433-467, figs. 33.)
- Sunflower Silage for Steers.--Smutted Corn Silage for Pregnant Cows. By J. W. Wilson and A. H. Kuhlman. (South Dakota Sta. Bul. 199, pp. 470-482.)
- Celery Culture for Utah. By T. H. Abell. (Utah Sta. Circ. 47, pp. 23, figs. 5.)
- The Protein Requirements of Dairy Cows. By J. L. Hills, et. al. (Vermont Sta. Bul. 225, pp. 199.)
- Hog Feeding Experiments. By H. Hackedorn and J. Sotola. (Washington Sta. Bul. 169, pp. 32, figs. 2.)
- West Virginia Pastures. By I. S. Cook. (West Virginia Sta. Bul. 177, pp. 23, figs. 4.)
- Effect of Confinement and Green Feed on Number and Hatchability of Eggs. By H. Atwood. (West Virginia Sta. Bul. 178, pp. 12.)
- The Development and Winter Injury of Cherry Blossom Buds. By R. H. Roberts. (Wisconsin Sta. Res. Bul. 52, pp. 24, pls. 4, figs. 7.)

An Experimental Study of Infectious Abortion in Swine. By F. B. Hadley and B. A. Beach. (Wisconsin Sta. Res. Bul. 55, pp. 35, figs. 4.)

Abortion Disease in Wyoming. By C. Elder. (Wyoming Sta. Circ. 18, pp. 6.)

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LIST OF STATION PUBLICATIONS
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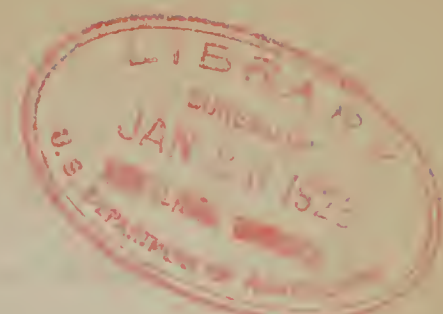
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- Sunburn and Aphid Injury of Soybeans and Cowpeas. By F. Gibson. (Arizona Sta. Tech. Bul. 2, pp. 41-46, pls. 2, fig. 1.)
- The Control of Red Spiders in Deciduous Orchards. By E. R. DeOng. (California Sta. Bul. 347, pp. 39-83, pls. 2, figs. 10.)
- Supports for Vines. By F. T. Bioletti. (California Sta. Circ. 252, pp. 19, figs. 15.)
- Twenty-seventh Report on Food Products and Fifteenth Report on Drug Products.-- Part I. By E. M. Bailey. (Connecticut State Sta. Bul. 240, pp. 51, figs. 21.)
- A Preliminary Report Upon an Improved Method of Controlling the Boll Weevil. By G. D. Smith. (Florida Sta. Bul. 165, pp. 72, figs. 13.)
- Report of the Florida Station, 1921. (Florida Sta. Rpt. 1921, pp. 33R + III.)
- The Sorghums in Guam. By G. Briggs. (Guam Sta. Bul. 3, pp. 28, pls. 9.)
- Leguminous Crops for Guam. By G. Briggs. (Guam Sta. Bul. 4, pp. 29, pls. 14.)
- Burn the Chinch-bug. By W. P. Flint. (Illinois Sta. Circ. 265, pp. 4, figs. 2.)
- Sheep Feeding.--XI. Fattening Western Lambs. By J. H. Skinner and F. G. King. (Indiana Sta. Bul. 263, pp. 15.)
- Sheep Feeding Investigation, 1920-21. By A. M. Paterson and H. B. Winchester. (Kansas Sta. Circ. 96, pp. 7, fig. 1.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and G. E. Lindskog. (Massachusetts Sta. Met. Bul. 406, pp. 4.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul. 5(1922), No. 2, pp. 51-86, figs. 16.)

- Thirty-fourth Annual Report, 1921. (Michigan Sta. Rpt. 34 (1921), pp. 636, figs. 99.)
- Comparison of First Generation Tomato Crosses and Their Parents. By R. Wellington. (Minnesota Sta. Tech. Bul. 6, pp. 27, figs. 8.)
- Inheritance and Yield with Particular Reference to Rust Resistance and Panicle Type in Oats. By R. J. Garber. (Minnesota Sta. Tech. Bul. 7, pp. 62, pls. 6.)
- Report of Northwest Experiment Station, Crookston, 1921. (Minnesota Sta. Crookston Series 15(1922), No. 4, pp. 76.)
- Report of Northeast Demonstration Farm and Experiment Station, Duluth, 1921. (Minnesota Sta. Rpt. 1921, pp. 34, figs. 9.)
- Report of West Central Experiment Station, Morris, 1921. (Minnesota Sta. Rpt. 1921, pp. 43.)
- Raising Dairy Cattle. By J. O. Tretsven. (Montana Sta. Circ. 104, pp. 20, figs. 14.)
- Corn Investigations. By T. A. Kiesselbach. (Nebraska Sta. Res. Bul. 20, pp. 151, figs. 36.)
- Common Diseases of Beans and Peas. By M. T. Cook. (New Jersey Sta. Circ. 142, pp. 8, figs. 5.)
- Selection of Breeders without the Trapnest. By W. H. Allen. (New Jersey Stas. Hints to Poultrymen, 11(1922), No. 1, pp. 4.)
- Methods for the Exhibitor. By G. W. Hervey. (New Jersey Stas. Hints to Poultrymen 11(1922), No. 2, pp. 4, fig. 1.)
- The Utility of Yucca and Chamiza as Range Supplements. By L. S. Brown. (New Mexico Sta. Bul. 133, pp. 38, figs. 6.)
- The Insect Fauna of the Genus Crataegus. By W. H. Wellhouse. (New York Cornell Sta. Memoir 56, pp. 1041-1136, figs. 26.)
- State Live Stock and Poultry Meeting. (North Carolina Sta. Farmers' Market Bul. 9(1922), No. 57, pp. 11.)
- Williston Substation Report for Years 1914 to 1920. By C. H. Ruzicka. (North Dakota Sta. Bul. 158, pp. 104, figs. 16.)
- Boll Weevil.--Life History in Connection with Essential Methods of Control. By C. E. Sanborn. (Oklahoma Sta. Circ. 50, pp. 2.)

- The Rise, Development, and Value of the Agricultural Experiment Station. By J. T. Jardine. (Oregon Sta. Circ. 26, pp. 38, figs. 20.)
- Pollination of the Sweet Cherry. By C. E. Schuster. (Oregon Sta. Circ. 27, pp. 3.)
- Filberts. By C. E. Schuster. (Oregon Sta. Circ. 28, pp. 3.)
- Destroy the Earwigs. By B. B. Fulton. (Oregon Sta. Circ. 29, pp. 3.)
- Copper Carbonate for Wheat Smut Control. By H. P. Barss. (Oregon Sta. Circ. 30, pp. 3.)
- Lettuce Varieties. By A. M. Musser and W. J. Young. (South Carolina Sta. Bul. 215, pp. 16, figs. 5.)
- Grain Sorghums Versus Corn for Fattening Baby Beeves. By J. M. Jones, R. A. Brewer, and R. E. Dickson. (Texas Sta. Bul. 296, pp. 25.)
- Commercial Fertilizers in 1921-1922. By G. S. Fraps and S. E. Asbury. (Texas Sta. Bul. 298, pp. 25.)
- The Net Duty of Water in Sevier Valley. By O. W. Isrealson and L. M. Winsor. (Utah Sta. Bul. 182, pp. 36, figs. 5.)
- Report of the Virgin Islands Agricultural Experiment Station, 1921. (Virgin Islands Sta. Rpt. 1921, pp. 24, pls. 3.)
- Blackfire or Angular-leafspot of Tobacco. By F. D. Fromme and S. A. Wingard. (Virginia Sta. Tech. Bul. 25, pp. 43, pls. 2, figs. 18.)
- Lamb Feeding Experiments. By H. Hackedorn, R. P. Bean, and J. Sotola. (Washington Sta. Bul. 170, pp. 24, fig. 1.)
- Bimonthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Bimo. Bul., 10(1922), No. 4, pp. 65-88, figs. 5.)
- Why Costs of Milk Vary.--Possibilities of Cow Testing Associations. By P. E. McNall and D. R. Mitchell. (Wisconsin Sta. Bul. 345, pp. 24, figs. 4.)
- The Value of Lime and Inoculation for Alfalfa and Clover on Acid Soils. E. J. Graul and E. B. Fred. (Wisconsin Sta. Res. Bul. 54, pp. 22, figs. 4.)
- Insect Transmission of Swamp Fever or Infectious Anemia of Horses. By J. W. Scott. (Wyoming Sta. Bul. 133, pp. 55-137, figs. 31.)

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Thirty-second Annual Report, 1921. (Arizona Sta. Rpt. 1921, pp. 543-616, figs. 9.)

Cheese Pests and Their Control. By E. R. DeOng and C. L. Roadhouse. (California Sta. Bul. 343, pp. 399-424, figs. 9.)

Report of the College of Agriculture and the Agricultural Experiment Station of the University of California, 1921-22. (California Sta. Rpt. 1922, pp. 255, pls. 2, figs. 62.)

Report of the Hawaii Agricultural Experiment Station, 1921. (Hawaii Sta. Rpt. 1921, pp. V + 65, pls. 10.)

Influence of Acidity on Flavor and Keeping Quality of Butter. By M. Mortensen. (Iowa Sta. Bul. 207, pp. 87-96, fig. 1.)

Swine Publications and Associations. By J. M. Evvard and A. L. Anderson. (Iowa Sta. Circ. 79, pp. 8.)

Soil Survey of Iowa.--Palo Alto County. By W. H. Stevenson, P. E. Brown, et. al. (Iowa Sta. Soil Survey Rpt. No. 22, pp. 62, pl. 1, figs. 10.)

The White Flies of Hothouses. By H. H. Jewett and H. Garman. (Kentucky Sta. Bul. 241, pp. 77-111, figs. 10.)

Breeding Experiments with Kentucky Mountain Ewes. By L. J. Horlacher and E. S. Good. (Kentucky Sta. Bul. 243, pp. 139-139, figs. 69.)

Experiments in Soil Management and Fertilization of Orchards. By J. K. Shaw. (Massachusetts Sta. Bul. 209, pp. 33-60, figs. 11.)

Injury to Foliage by Arsenical Sprays. By H. T. Fernald and A. I. Bourne. (Massachusetts Sta. Bul. 210, pp. 89-98, figs. 14.)

Concerning the Diagnosis of Bacterium Pullorum Infection in the Domestic Fowl. By G. E. Gage. (Massachusetts Sta. Tech. Bul. 5, pp. 61-88, pl. 1, figs. 4.)

- Bulletin Summary. (Massachusetts Sta. Circ. 68, pp. 6.)
- Bulletin Summary. (Massachusetts Sta. Circ. 69, pp. 6.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and G. E. Lindskog. (Massachusetts Sta. Met. Bul. 407, pp. 4.)
- Leafhopper Injury to Potatoes. By J. E. Kotila. (Michigan Sta. Tech. Bul. 56, pp. 27, figs. 14.)
- Studies on Active Bases and Excess Acids in Mineral Soils. By C. H. Spurway. (Michigan Sta. Tech. Bul. 57, pp. 27, figs. 11.)
- Observations on Winter Injury. By F. C. Bradford and H. A. Cardinell. (Missouri Sta. Res. Bul. 56, pp. 26, figs. 27.)
- Varieties of Potatoes for Nebraska. By H. O. Werner. (Nebraska Sta. Bul. 182, pp. 39, figs. 18.)
- Wildfire of Tobacco. By F. A. Wolf. (North Carolina Sta. Bul. 246, pp. 26, figs. 7.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 9 (1922), No. 55, pp. 8, figs. 2.)
- The Mineral Metabolism of the Milch Cow. By E. B. Forbes, et. al. (Ohio Sta. Bul. 363, pp. 59, figs. 3.)
- Inspection of Fertilizers. By F. S. Burgess. (Rhode Island Sta. Ann. Fert. Circ., 1922, pp. 14.)
- Varieties of Cotton in Northwest Texas. By R. E. Karper. (Texas Sta. Bul. 299, pp. 26, figs. 3.)
- The Maintenance Requirements of Dairy Cattle. By J. L. Hills. (Vermont Sta. Bul. 226, pp. 191.)
- Experiments with Cotton and Peanuts and Crops Grown in Rotation with Them in Nansemond County. By E. T. Batten. (Virginia Sta. Bul. 229, pp. 22, figs. 6.)
- The Farm Tractor in Mason and Berkeley Counties. By A. J. Dadisman, J. H. Shaffer, and F. D. Cornell. (West Virginia Sta. Bul. 180, pp. 12, figs. 4.)