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UNITED STATES DEPARTMENT OF AGRICULTURE

DEPARTMENT BULLETIN No. 1199

Washington, D. C.

December, 1927

**LIST OF BULLETINS OF THE
AGRICULTURAL EXPERIMENT STATIONS
FOR THE CALENDAR YEARS
1925 AND 1926**

SUPPLEMENT 3

By

CATHERINE E. PENNINGTON, Library Assistant
Office of Experiment Stations

**UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON
1927**

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UNITED STATES DEPARTMENT OF AGRICULTURE

DEPARTMENT BULLETIN No. 1199 SUPPLEMENT 3

Washington, D. C.

December, 1927

BULLETINS OF THE EXPERIMENT STATIONS, 1925 AND 1926

By CATHERINE E. PENNINGTON, *Library Assistant, Office of Experiment Stations*

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135. Work and progress of the agricultural experiment station for the year ended December 31, 1924. E. J. Iddings. Jan., 1925.
136. Farming practices for the cut-over lands of northern Idaho. G. R. McDole and J. H. Christ. Feb., 1925.
137. The fruit tree leaf roller, its control in southern Idaho by the use of oil emulsion sprays. Claude Wakeland. Mar., 1925.
138. Seasonal variation as it affects the activity and control of the alfalfa weevil in Idaho. Claude Wakeland. May, 1925.
139. Artificial brooding. R. T. Parkhurst. Aug., 1925.
140. Vegetable seed production in Idaho. C. C. Vincent and L. E. Longley. Nov., 1925.
141. Growing sunflowers for silage in Idaho. H. W. Hulbert and J. H. Christ. Jan., 1926.
142. Work and progress of the agricultural experiment station for the year ended December 31, 1925. E. J. Iddings. Jan., 1926.
143. Alfalfa seed production in southern Idaho. A. E. McClymonds. Apr., 1926.
144. Cooperative cream pools in Idaho. F. W. Atkeson and D. L. Fourt. Aug., 1926.
145. Rate, date and depth of seeding winter wheat, including recommendations on cultural practices and on selection and treatment of seed. W. A. Moss. July, 1926.

RESEARCH BULLETINS

4. Seed treatment control of Rhizoctonia in Idaho. J. M. Raeder, C. W. Hungerford and Naomi Chapman. Aug., 1925.
5. The relation of the yield and protein content of wheat to the nitrogen content of the soil under ten years of different systems of cropping. R. E. Neidig and R. S. Snyder. Nov., 1926.
6. False wireworms injurious to dry-farmed wheat and a method of combatting them. Claude Wakeland. July, 1926.

ILLINOIS AGRICULTURAL EXPERIMENT STATION, URBANA**BULLETINS**

256. Phyllosticta leaf spot, fruit blotch, and canker of the apple, its etiology and control. E. F. Guba. Feb., 1925.
257. A bibliography of researches bearing on the composition and nutritive value of corn and corn products. M. H. Keith. Feb., 1925.
258. Experiments with subsoiling, deep tilling, and subsoil dynamiting. R. S. Smith, Feb., 1925.
259. The cultivation of corn, weed control vs. moisture conservation. D. C. Wimer and M. B. Harland. Mar., 1925. Revision of 181.
260. The soybean crop for fattening western lambs. W. G. Kammlade and A. K. Mackey. Mar., 1925.
261. Economic factors in cattle feeding: Cattle feeding in relation to farm management. H. C. M. Case and K. H. Myers. Mar., 1925.
262. Feeding purebred draft fillies. J. L. Edmonds and C. W. Crawford. Apr., 1925.

263. Relation of solids in milk to fat and specific gravity of the milk. O. R. Overman, F. A. Davidson and F. P. Sanmann. Apr., 1925.
264. Wheat rosette and its control. H. H. McKinney, R. W. Webb and G. H. Dungan. Apr., 1925.
265. Tulip blossom blight. F. L. Stevens and O. A. Plunkett. Apr., 1925.
266. Factors influencing lodging in corn. Benjamin Koehler, G. H. Dungan and J. R. Holbert. May, 1925.
267. Successful threshing ring management. Emil Rauchenstein and C. A. Bonnen. May, 1925.
268. The sunflower as a silage crop, composition and yield at different stages of maturity. W. L. Gaines and W. B. Nevens. June, 1925.
269. The marketing of milk in the Chicago dairy district. H. A. Ross. June, 1925.
270. Measuring the breeding value of dairy sires by the records of their first few advanced registry daughters. F. A. Davidson. June, 1925.
271. An experiment in selecting corn for yield by the method of the ear-row breeding plot. L. H. Smith and A. M. Brunson. Nov., 1925.
272. Rate of milk secretion as affected by advance in lactation and gestation, correction of yield, within a lactation period, for length of record and for pregnancy. W. L. Gaines and F. A. Davidson. Jan., 1926.
273. The Illinois soil experiment fields. F. C. Bauer, R. S. Smith and L. H. Smith. Jan., 1926.
274. Some tests in the culture of peppers. J. W. Lloyd. Apr., 1926.
275. Apple breeding at the University of Illinois. C. S. Crandall. June, 1926.
276. Productiveness of varieties of winter wheat in Illinois. R. W. Stark. June, 1926.
277. Cost of producing field crops in three areas of Illinois, 1913-1922. Emil Rauchenstein and R. C. Ross. June, 1926.
278. The growth of white Plymouth Rock chickens. H. H. Mitchell, L. E. Card and T. S. Hamilton. June, 1926.
279. The toxicity of salt for chickens. H. H. Mitchell, L. E. Card and G. G. Carman. July, 1926.
280. Crop yields from Illinois soil experiment fields in 1925. F. C. Bauer. Aug., 1926.
281. A comparison of white and yellow corn for growing and fattening swine and for brood sows. J. B. Rice, H. H. Mitchell and R. J. Laible. Dec., 1926.
282. The energy value of milk as related to composition, formulas for the computation of the energy. O. R. Overman and F. P. Sanmann. Dec., 1926.
283. A technical study of the maintenance and fattening of sheep and their utilization of alfalfa hay. H. H. Mitchell, W. G. Kammlade and T. S. Hamilton. Dec., 1926.
284. The influence of plant injury and the root rot diseases upon the physical and chemical composition of corn grain. G. H. Dungan. Dec., 1926. Also abstract edition.

SOIL REPORTS

29. Mercer County soils. R. S. Smith, E. E. DeTurk, F. C. Bauer and L. H. Smith. June, 1925.
30. Johnson County soils. R. S. Smith, E. A. Norton, E. E. DeTurk, F. C. Bauer and L. H. Smith. June, 1925.
31. Rock Island County soils. R. S. Smith, O. I. Ellis, E. E. DeTurk, F. C. Bauer and L. H. Smith. June, 1925.
32. Randolph County soils. R. S. Smith, E. E. DeTurk, F. C. Bauer and L. H. Smith. Dec., 1925.
33. Saline County soils. R. S. Smith, E. A. Norton, E. E. DeTurk, F. C. Bauer and L. H. Smith. June, 1926.
34. Marion County soils. R. S. Smith, E. A. Norton, E. E. DeTurk, F. C. Bauer and L. H. Smith. Nov., 1926.
35. Will County soils. R. S. Smith, O. I. Ellis, E. E. DeTurk, F. C. Bauer and L. H. Smith. Dec., 1926.

INDIANA AGRICULTURAL EXPERIMENT STATION, LA FAYETTE

BULLETINS

290. Cooling cream on the farm for buttermaking. V. C. Manhart. Jan., 1925.
291. Cattle feeding: Winter steer feeding, 1923-24. J. H. Skinner and F. G. King. Feb., 1925.
292. Commercial fertilizers [1924]. O. S. Roberts [and others]. May, 1925.
293. Soy bean oil meal in rations for laying pullets. A. G. Philips and S. M. Hauge. May, 1925.
294. Commercial feeding stuffs. O. S. Roberts [and others]. May, 1925.

295. The production and marketing of farm products in Wayne County, Indiana. M. H. Overton and P. K. Edwards. June, 1925.
296. Sheep feeding: XIII, Fattening western lambs, 1924-1925. J. H. Skinner and F. G. King. July, 1925.
297. The value of silage in the dairy ration. L. H. Fairchild and J. W. Wilbur. Sept., 1925.
298. Testing corn stalks chemically to aid in determining their plant food needs. G. N. Hoffer. May, 1926.
299. Good bulls and good foundation cows the source of better dairy cattle. L. H. Fairchild. May, 1926.
300. Tankage for spring pigs on legume pasture. C. M. Vestal. May, 1926.
301. Commercial fertilizers. O. S. Roberts [and others]. May, 1926.
302. Inspection of agricultural seeds. O. S. Roberts [and others]. May, 1926.
303. Commercial feeding stuffs. H. R. Kraybill [and others]. July, 1926.
304. Sheep feeding: XIV, Fattening western lambs, 1925-26. Claude Harper. May, 1926.
305. Increasing farm profits with more early potatoes in northern Indiana. M. H. Overton. Nov., 1926.
306. Costs and profits in producing soybeans in Indiana. E. C. Young and L. G. Hobson. Dec., 1926.

IOWA AGRICULTURAL EXPERIMENT STATION, AMES

BULLETINS

225. The onion industry in Pleasant Valley, Iowa. A. T. Erwin and W. L. Harter. Jan., 1925.
226. Seed analyses, 1921 to 1924. C. M. King. Feb., 1925.
227. Iowa farmers test new oat varieties. H. D. Hughes and J. L. Robinson. Mar., 1925.
228. Soybeans for Iowa. H. D. Hughes and F. S. Wilkins. May, 1925. Also abridged edition.
229. Farm organization and management studies in Warren County, Iowa. C. W. Crickman. June, 1925.
230. Cold storage investigations with Wealthy apples. Fifth progress report. H. H. Plagge and T. J. Maney. Aug., 1925.
231. Succulent feeds for dairy cows in summer. H. H. Kildee, Earl Weaver, J. M. Shaw and Fordyce Ely. Sept., 1925.
232. Field experiments with gypsum in Iowa. L. W. Erdman and W. B. Bollen. Nov., 1925.
233. Sudan grass. H. D. Hughes and F. S. Wilkins. Mar., 1926.
234. Soybean hay for fattening lambs. J. M. Evvard, C. C. Culbertson, W. E. Hammond and K. K. Henness. May, 1926.
235. Cabbage yellows, caused by *Fusarium conglutinans* in Iowa. I. E. Melhus, A. T. Erwin and Frank Van Haltern. June, 1926.
236. The economic value of farm manure as a fertilizer on Iowa soils. W. H. Stevenson, P. E. Brown, L. W. Forman, W. G. Baker, J. L. Boatman and Bryan Boatman. June, 1926.
237. [Pt. 1.] Cost of living on Iowa farms; an economic and sociological study of 472 farm families and farm homes in Boone, Story and Sac Counties, Iowa. G. H. Von Tungeln, J. F. Thaden and E. L. Kirkpatrick. June, 1926.
237. Pt 2. Cost of living on Iowa farms: Household expenditures. Hazel Kyrk. July, 1926.
238. Standard of living on Iowa farms. J. F. Thaden. Aug., 1926.
239. The snakes of Iowa. J. E. Guthrie. Sept., 1926.
240. Testing draft horses. E. V. Collins and A. B. Caine. Oct., 1926.
241. Crop returns under various rotations in the Wisconsin drift soil area. W. H. Stevenson, P. E. Brown and L. W. Forman. Oct., 1926.

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82. Transmissibility and pathological effects of the mosaic disease. O. H. Elmer. Feb., 1925.
83. Raising orphan pigs: II, Modifying cows' whole milk with sugar and cream; heat treatment of cows' whole milk; vitamin modification of cows' whole milk. J. M. Evvard, Q. W. Wallace and G. V. Glatfelter. May, 1925.
84. Basiporium dry rot of corn. L. W. Durrell. May, 1925.

85. Studies on starters: Part I, Influence on starters of air supply, temperature of incubation, and rate of ripening. P. Toens and B. W. Hammer.— Part II, Acetone in distillates from starters and from milk. F. F. Sherwood and B. W. Hammer. May, 1925.
86. Studies in iodine feeding: Part I, Potassium iodide feeding beneficial to young swine. J. M. Evvard and C. C. Culbertson. May, 1925.
87. A study of the secondary effects of hill fertilization. H. J. Harper. July, 1925.
88. Farm organization and farm profits in Tama County, Iowa. C. C. Taylor and E. B. Hurd. Nov., 1925.
89. A partial correlation analysis of farm organization and management data from Warren County, Iowa. C. W. Crickman. Nov., 1925.
90. Citric acid content of milk. F. F. Sherwood and B. W. Hammer. Apr., 1926.
91. Certain physical and chemical changes of Grimes apples during ripening and storage period. H. H. Plagge, T. J. Maney and Fisk Gerhardt. Apr., 1926.
92. Influence of the milk on the starter made from it. M. P. Baker and B. W. Hammer. June, 1926.
93. Hereditary correlation of size and color characters in tomatoes. E. W. Lindstrom. June, 1926.
94. The salt consumption of sheep; fattening lambs. J. M. Evvard, L. C. Brown, C. C. Culbertson and W. E. Hammond. June, 1926.
95. Influence of carbon dioxide upon quality and keeping properties of butter and ice cream. F. F. Sherwood and F. G. Martin. June, 1926.
96. The extent to which weeds modify the transpiration of cereals. A. L. Bakke and H. H. Plagge. June, 1926.
97. Germination and storage of apple seeds. A. L. Bakke, H. W. Richey and Kenneth Reeves. Oct., 1926.
98. Inheritance of carbohydrates and fat in crosses of dent and sweet corn. E. W. Lindstrom and Fisk Gerhardt. Nov., 1926.
99. Classification of the *Streptococcus lactis* group. B. W. Hammer and M. P. Baker. Nov., 1926.
100. Holcus bacterial spot of *Zea mays* and *Holcus* species. J. B. Kendrick. Nov., 1926.
101. A statistical study of the prices and production of beef cattle. J. A. Hopkins, jr. Dec., 1926.

SOIL SURVEY REPORTS

38. Hardin County soils. W. H. Stephenson, P. E. Brown, T. H. Benton, L. W. Forman and J. L. Boatman. Aug., 1925.
39. Dallas County soils. W. H. Stephenson, P. E. Brown, P. E. Nordaker, L. W. Forman and W. G. Baker. May, 1926.
40. Woodbury County soils. W. H. Stephenson, P. E. Brown, E. I. Angell, A. M. O'Neal, H. W. Warner, C. L. Orrben, D. S. Gray, L. W. Forman and W. G. Baker. May, 1926.
41. Page county soils. W. H. Stephenson, P. E. Brown, A. M. O'Neal, L. W. Forman and W. G. Baker. June, 1926.
42. Jasper County soils. W. H. Stephenson, P. E. Brown, D. S. Gray, A. M. O'Neal, L. W. Forman, J. L. Boatman and Bryan Boatman. June, 1926.
43. O'Brien County soils. W. H. Stephenson, P. E. Brown, H. R. Meldrum, L. W. Forman and W. G. Baker. June, 1926.

KANSAS AGRICULTURAL EXPERIMENT STATION, MANHATTAN

BULLETINS

235. The trend of real estate taxation in Kansas from 1910 to 1923. Eric Englund. Sept., 1925.
236. Dairy buildings for Kansas. J. B. Fitch and V. R. Hillman. Nov., 1925.
237. Federal aid as a part of a long-time agricultural policy, with special reference to the distribution of tax levies. Eric Englund. Oct., 1926.
238. Corn production in Kansas. S. C. Salmon. Nov., 1926.

TECHNICAL BULLETINS

14. Infectious abortion investigations. H. F. Lienhardt, C. H. Kitselman and C. E. Sawyer. Feb., 1925.
15. Experiments relating to the time of cutting alfalfa. S. C. Salmon, C. O. Swanson and C. W. McCampbell. Apr., 1925.
16. A comparative study of the history of certain phytophagous scarabaeid beetles. W. P. Hayes. July, 1925.

17. Studies of inheritance and evolution in Orthoptera: V, The grouse locust, *Apotettia eurycephalus* Hancock. R. K. Nabours. Aug., 1925.
18. Tillage investigations relating to wheat production. M. C. Sewell and L. E. Call. Sept., 1925.
19. Tillage in relation to milling and baking qualities of wheat. M. C. Sewell and C. O. Swanson. Jan., 1926.
20. Tomato wilt investigations. R. P. White. Feb., 1926.
21. Bacillary white diarrhea in fowl. L. D. Bushnell, W. R. Hinshaw and L. F. Payne. Nov., 1926.

KENTUCKY AGRICULTURAL EXPERIMENT STATION, LEXINGTON

BULLETINS

257. Commercial feeding stuffs in Kentucky in 1924. J. D. Turner, H. D. Spears and W. G. Terrell. Feb., 1925.
258. (Research bulletin.) The relation of some chemical constituents to the grades of Kentucky tobacco. O. M. Shedd. Apr., 1925.
259. Farming with bluegrass. J. B. Hutson and E. L. Langsford. July, 1925.
260. Sources of animal protein for laying hens: I, Varying percentages of meat scrap in the mash; II, a comparison of sour skim-milk, condensed and dried buttermilk with meat scrap; III, grain supplements for skim-milk. J. H. Martin. Aug., 1925.
261. An economic study of 270 farms in Union and Henderson Counties. W. D. Nicholls. Nov., 1925.
262. Root-rot of tobacco in Kentucky and its control, a progress report. W. D. Valleau, Ralph Kenney and E. J. Kinney. Dec., 1925.
263. Analyses of commercial fertilizers. H. E. Curtis, H. R. Allen and Lelah Gault. Dec., 1925.
264. Steer feeding: Substituting a legume hay for corn silage toward the end of the feeding period. E. S. Good and L. J. Horlacher. Jan., 1926.
265. (Research bulletin.) Two important enemies of bluegrass pastures: 1, The bluegrass plant bug; 2, the green bug. Harrison Garman. Feb., 1926.
266. (Research bulletin.) The tobacco flea-beetle. H. H. Jewett. Mar., 1926.
267. Wintering steers with and without corn silage preparatory to finishing on grass without grain. E. S. Good. Apr., 1926.
268. Commercial feeding stuffs in Kentucky in 1925. J. D. Turner, H. D. Spears, W. G. Terrell and P. H. Senn. Apr. 1926.
- 269 (Research bulletin.) - A study of clover failure in Kentucky. E. N. Fergus and W. D. Valleau. Apr., 1926.
270. Kentucky livestock auction sales organizations. E. C. Johnson. Apr., 1926.
271. Cooperative marketing and price control. O. B. Jesness. Oct., 1926.
272. Field experiments on soils and crops. George Roberts, E. J. Kinney and J. F. Freeman. Aug., 1926.
273. Home-cured pork. E. J. Wilford. Sept., 1926.
274. Man labor, horse work and materials used in producing crops in Christian County. J. B. Hutson and W. G. Finn. June, 1926.
275. A study of the cost of producing tobacco in Kentucky. W. D. Nicholls. Oct., 1926.
276. Analyses of commercial fertilizers. H. E. Curtis, H. R. Allen and Lelah Gault. Dec., 1926.

LOUISIANA AGRICULTURAL EXPERIMENT STATION, BATON ROUGE

BULLETINS

193. Fungous infection of seed corn kernels and the importance of germination tests. C. W. Edgerton and A. F. Kidder. July, 1925.
194. A study of microbiological activities in some Louisiana soils, a preliminary survey. E. V. Abbott. June, 1926.
195. The selection of seed cane. C. W. Edgerton, W. G. Taggart and E. C. Tims. July, 1926.
196. Growing plants as possible carriers of anthrax. Harry Morris and H. K. Riley. Oct., 1926.

MAINE AGRICULTURAL EXPERIMENT STATION, ORONO

BULLETINS

322. Fertilization of apple orchards in Maine. Karl Sax. Jan., 1925.
323. Potato aphids. E. M. Patch. Apr., 1925.

324. Studies in milk secretion: XV, Guernsey sires' progeny performance for milk yield, butter-fat percentage, and butter-fat. J. W. Gowen. June, 1925.
325. Apple spraying and dusting experiments, 1918 to 1924. W. J. Morse and Donald Folsom. July, 1925.
326. The melon aphid (*Aphis gossypii* Glover). E. M. Patch. Sept., 1925.
327. Studies in milk secretion: XVI, Progeny performance of Guernsey sires' sons. J. W. Gowen. Oct., 1925.
328. Abstracts of papers not included in bulletins; finances; meteorology; index. Dec., 1925.
329. Studies in milk secretion: XVII, Transmitting qualities of Guernsey sires for milk yield, butter-fat percentage, and butter-fat. J. W. Gowen. Jan., 1926.
330. Varieties of ensilage corn for Maine. Karl Sax and I. M. Burgess. Feb., 1926.
331. Potato degeneration diseases, natural spread and effect upon yield. Donald Folsom, E. S. Schultz and Reiner Bonde. Mar., 1926.
332. Sweet-corn breeding experiments. Karl Sax. May, 1926.
333. Apple spraying and dusting experiments in 1925. Donald Folsom. July, 1926.
334. Potato spraying and dusting experiments, 1921 to 1925. Donald Folsom and Reiner Bonde. Aug., 1926.
335. Abstracts of papers not included in bulletins; finances; meteorology; index. 1926.

MARYLAND AGRICULTURAL EXPERIMENT STATION, COLLEGE PARK

BULLETINS

272. The boxwood leaf miner (*Monarthropalpus buxi* Labou). C. C. Hamilton. Feb., 1925.
273. The Maryland state egg-laying competition and performance tests, containing rules and regulations. R. H. Waite and F. H. Leuschner. Mar., 1925.
274. A simple and effective system of management for the control of bacillary white diarrhea. R. H. Waite. July, 1925.
275. Cropping tests with tobacco. D. E. Brown and W. M. Lunn. Aug., 1925.
276. A study of respiration in potatoes with special reference to storage and transportation. W. D. Kimbrough. Sept., 1925.
277. Soy beans, production, composition, and feeding value. J. E. Metzger, M. G. Holmes and Harlow Bierman. Oct., 1925.
278. The budding and grafting of fruit trees: I, Topworking bearing apple trees. A. L. Schrader.— II, Whip and bridge grafting, shield budding, propagation by cuttings and layers. W. E. Whitehouse. Nov., 1925.
279. The Maryland state egg-laying competition and performance tests, II, containing rules and regulations for second annual competition, 1926-1927. R. H. Waite and F. H. Leuschner. Mar., 1926.
280. Roadside markets in Maryland. S. H. DeVault and G. E. Bouis. Apr., 1926.
281. Variety tests of field crops at Ridgely. J. E. Metzger and Albert White. May, 1926.
282. Disastrous effect of mosaic on the McCormick potato. R. A. Jehle. May, 1926.
283. Pectic constituents of peaches and their relation to softening of the fruit. C. O. Appleman and C. M. Conrad. July, 1926.
284. Fruit-rotting sclerotinias: III, Longevity of buried brown-rot mummies. W. N. Ezekiel. Oct., 1926.
285. Agricultural progress in a typical Maryland community. J. E. Metzger. Oct., 1926.
286. The Concord grape, pruning and chemical studies in relation to the fruiting habits of the vine. A. L. Schrader. Nov., 1926.
287. Soil management studies, a three year rotation for Western Maryland, Frostburg field, Garrett County. A. G. McCall. Nov., 1926.
288. The salt requirement of tobacco grown in sand cultures. Ho Liu. Nov., 1926.
289. The relative value of different carriers of phosphorus. A. G. McCall. Dec., 1926.

MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION, AMHERST

BULLETINS

222. Experiments on the control of apple scab and black rot and spray injury in 1924. W. L. Doran. Mar., 1925.
223. Milk substitutes in the rearing of young calves. J. B. Lindsey and J. G. Archibald. Mar., 1925.
224. The costs of marketing the apple crop of 1923. L. P. Jefferson. Mar., 1925.
225. Yellow pickle in greenhouse cucumbers. V. A. Tiedjens. Dec., 1925.

226. Research service to the Massachusetts apple industry, Progress reports: The apple situation. L. P. Jefferson and H. W. Yount.— The value for Massachusetts of some of the newer varieties of apples. J. K. Shaw.— Diseases of fruit in Massachusetts in 1925. William Doran.— Orchard insect pests of 1925. A. I. Bourne.— Pruning young apple trees. J. K. Shaw.— Effect of stock on scion. J. S. Bailey.— Progress of nursery tree inspection. J. K. Shaw.— The codling moth in Massachusetts; tests of lime-sulfur solution and some of its substitutes against San José scale; some results from spraying with scalecide. A. I. Bourne. Jan., 1926.
227. The Connecticut Valley onion industry, progress reports of experimental work: The present status of the Connecticut Valley onion industry. L. P. Jefferson.— Fertilizers for Connecticut Valley onions. A. B. Beaumont and O. E. Street.— Onion blight or downy mildew. A. V. Osmun.— A study of the life history and control of the onion thrips. A. I. Bourne. Feb., 1926.
228. An economic study of the Massachusetts apple industry. H. W. Yount and L. P. Jefferson. Mar., 1926.
229. Soil reaction and black root-rot of tobacco. P. J. Anderson, A. V. Osmun and W. L. Doran. Apr., 1926.
230. Research service to Massachusetts animal industry: Mineral matter for dairy cows; skim milk powders in the rearing of young calves. J. B. Lindsey and J. G. Archibald.— Better feed from permanent pastures. S. B. Haskell.— The utilization of feeds by horses. J. B. Lindsey and J. G. Archibald.— Improving the feeding value of grain hulls and sawdust. J. G. Archibald. Apr., 1926.

TECHNICAL BULLETINS

7. Broodiness in relation to fecundity in the domestic fowl. F. A. Hays and Ruby Sanborn. Mar., 1926.
8. Winter cycle and winter pause in relation to winter and annual egg production. F. A. Hays and Ruby Sanborn. July, 1926.
9. Annual persistency in relation to winter and annual egg production. F. A. Hays and Ruby Sanborn. Oct., 1926.
10. The therapeutic efficiency of avian diphtheria, roup, and bird pox vaccines and bacterins. N. J. Pyle. Nov., 1926.

MICHIGAN AGRICULTURAL EXPERIMENT STATION, EAST LANSING

SPECIAL BULLETINS

137. Marketing Michigan potatoes. J. T. Horner. Feb., 1925.
138. (Rural landscape series no. 1.) Rural highways. C. P. Halligan. Jan., 1925.
139. (Rural landscape series no. 2.) Tourist camps. C. P. Halligan. Jan., 1925.
140. Spraying calendar. W. C. Dutton, R. H. Pettit, C. W. Bennett, and H. A. Cardinell. Jan., 1925.
141. Profitable pruning of the Concord grape. N. L. Partridge. Jan., 1925.
142. Grafting in the apple orchard. H. A. Cardinell and F. C. Bradford. Jan., 1925.
143. Winter pruning the black raspberry. Stanley Johnston. Mar., 1925.
144. Spraying dewberries for anthracnose. W. C. Dutton. Mar., 1925.
145. Christmas tree plantations. A. K. Chittenden. Mar., 1925.
146. Air-cooled storage for apples. R. E. Marshall. Apr., 1925.
147. Cherry leaf-spot, residual effects and control. W. C. Dutton and H. M. Wells. May, 1925.
148. Some important grape insects. L. G. Gentner. Oct., 1925.
149. Eighty winters in Michigan orchards. F. C. Bradford and H. A. Cardinell. Feb., 1926.
150. Emergency hay and pasture crops. C. R. Megee. Feb., 1926.
151. Buckwheat in Michigan. C. E. Cormany. Apr., 1926.
152. Sweet clover. C. R. Megee. Apr., 1926.
153. Peppermint growing in Michigan. J. R. Duncan. Mar., 1926.
154. Hardy shrubs for landscape planting in Michigan. C. P. Halligan. May, 1926.
155. The mint flea-beetle (*Longitarsus menthaphagus*, Gentner). L. G. Gentner. June, 1926.
156. Investigations with strains of beans. E. E. Down and H. M. Brown. June, 1926.
157. Celery culture in Michigan. J. B. Edmond. June, 1926. Revision of Special bulletin 60.
158. A suggested bacteriological standard for ice cream. F. W. Fabian. Aug., 1926.

TECHNICAL BULLETINS

67. Investigations on the blackleg disease of potato. J. E. Kotila and G. H. Coons. May, 1925.
68. *Bacterium pullorum* studies: I, Variations in cultural, physiological and morphological characteristics; II, a study of agglutinability of 47 strains; III, keeping quality of *Bacterium pullorum* antigen. W. L. Mallmann. Oct., 1925.
69. The fruiting habits and pruning of the Concord grape. N. L. Partridge. Oct., 1925.
70. The nutrient requirements of the strawberry. R. E. Loree. Oct., 1925.
71. Growth of lettuce as influenced by reaction of culture medium. J. W. Crist. Oct., 1925.
72. Potato spraying and dusting experiments in Michigan. J. E. Kotila and G. H. Coons. Oct., 1925.
73. Adsorption by activated sugar charcoal, with particular reference to adsorption and soil acidity. E. J. Miller. Oct., 1925.
74. Effect of nutrient conditions on colloidal properties of certain vegetable crops. J. W. Crist. Feb., 1926.
75. Influence of nutrient supply on earliness of maturity in cabbage. J. B. Edmond and E. P. Lewis. Mar., 1926.
76. Concentration of materials and rates of application in the control of apple scab. W. C. Dutton. June, 1926.

QUARTERLY BULLETINS

Quarterly bulletins, Vol. 7, No. 3—Vol. 9, No. 2. Feb., 1925—Nov., 1926. Each number contains a variety of articles relating to agricultural practice, based upon investigational work of the station.

MINNESOTA AGRICULTURAL EXPERIMENT STATION, UNIVERSITY FARM, ST. PAUL

BULLETINS

219. A comparison of wheat by-products for growing pigs. E. F. Ferrin and M. A. McCarty. Feb., 1925.
220. Effects of forest fires on land clearing and crop production. M. J. Thompson. May, 1925.
221. Tankage and buttermilk as protein supplements for growing pigs. E. F. Ferrin and M. A. McCarty. Aug., 1925.
222. Blanching celery. R. B. Harvey. Aug., 1925.
223. Composition of creamery butter and its control. C. H. Eckles, J. R. Keithley and W. B. Combs. Sept., 1925.
224. Management problems of farmers' elevators. H. B. Price and C. M. Arthur. Nov., 1925.
225. Apple pruning investigations: I, Comparison of fall, winter and spring pruning; II, renovation; III, wound healing. W. G. Brierley. Dec., 1925.
226. Recommended varieties of farm crops for Minnesota. A. C. Arny and H. K. Hayes. Dec., 1925.
227. Fuel from pine stumps, a land clearing by-product. M. J. Thompson and A. J. Schwantes. Feb., 1926.
228. Field crop variety trials on the Coon Creek peat experimental fields, 1919–1925. A. C. Arny and F. W. McGinnis. Mar., 1926.
229. A mineral deficiency in the rations of cattle. C. H. Eckles, R. B. Becker and L. S. Palmer. June, 1926.
230. New fruits produced at the University of Minnesota fruit breeding farm. W. H. Alderman. July, 1926.
231. Judging creamery efficiency. B. A. Holt and W. B. Combs. Aug., 1926.
232. Selection and use of bacon. A. M. Child. Dec., 1926.

TECHNICAL BULLETINS

27. Effectiveness of calcium cyanide in poisoning the pocket gopher, *Geomys bursarius* (Shaw). F. L. Washburn and C. E. Mickel. Apr., 1925.
28. Economic aspects of local potato warehouse organization. J. D. Black, B. A. Holt and G. M. Peterson. Sept., 1925.
29. Factors affecting the price of Minnesota potatoes. Holbrook Working. Oct., 1925.
30. Control of soil heterogeneity and use of the probable error concept in plant breeding studies. H. K. Hayes. Sept., 1925.
31. A study of a disease of the bones and joints of swine, an osteo-arthritis. H. C. H. Kernkamp. Aug., 1925.

32. Plum investigations: II. The inheritance of hardiness. M. J. Dorsey and John Bushnell. Dec., 1925.
33. A genetic and cytological study of dwarfing in wheat and oats. C. H. Goulden. Jan., 1926.
34. The relation of temperature to growth and respiration in the potato plant. John Bushnell. Dec., 1925.
35. Physiologic specialization in *Puccinia graminis avenae* Erikss. and Henn. D. L. Bailey. Dec., 1925.
36. Flax rust and its control. A. W. Henry. Mar., 1926.
37. Physiologic specialization and parasitism of *Helminthosporium sativum*. J. J. Christensen. July, 1926.
38. Winter hardiness in alfalfa varieties. F. H. Steinmetz. June, 1926.
39. Tables for determining contents of standing timber in Minnesota, Michigan and Wisconsin. July, 1926.
40. Studies of self-fertilization in rye. H. E. Brewbaker. June, 1926.
41. Low temperature and moisture as factors in the ecology of the rice weevil, *Sitophilus oryza* L. and the granary weevil, *Sitophilus granarius* L. William Robinson. Sept., 1926.
42. Determination of hardiness in apple varieties and the relation of some factors to cold resistance. A. C. Hildreth. June, 1926.
43. A study of the value of the living vaccine in the control of bovine infectious abortion. R. E. Lubbehusen, C. P. Fitch and W. L. Boyd. Sept., 1926.
44. A study of dairy farm organization in southeastern Minnesota. G. A. Pond. Nov., 1926.
45. The marketing attitudes of Minnesota farmers. C. C. Zimmerman and J. D. Black. Dec., 1926.

MISSISSIPPI AGRICULTURAL EXPERIMENT STATION, A. AND M. COLLEGE

BULLETINS

227. Soybeans, Delta branch station. W. E. Ayres. June, 1925.
228. Progress report on cost of production route in Choctaw County, Mississippi, in 1924. J. N. Lipscomb and H. A. Byrd. June, 1925.
229. Silage and silage costs in Mississippi. J. N. Lipscomb and C. J. Goodell. June, 1925.
230. Cotton experiments, 1925, fertilizers and varieties, Central station. J. F. O'Kelly and W. W. Hull. Dec., 1925.
231. Report, Raymond branch experiment station, 1925. H. F. Wallace and C. B. Anders. Dec., 1925.
232. Report South Mississippi branch experiment station, 1925. E. B. Ferris and W. S. Anderson. Dec., 1925.
233. Report from Holly Springs branch experiment station for 1925. C. T. Ames. Dec., 1925.
234. Cotton fertilizer experiments, 1921-25, Delta branch station. W. E. Ayres. Feb., 1926.
235. Soybeans for dairy cows. J. S. Moore and W. C. Cowser. June, 1926.
236. The use of first generation crosses and other methods for improving southern varieties of corn. H. B. Brown. July, 1926.
237. Progress report on cost of production route in Choctaw County, Mississippi, 1925. L. E. Long and H. W. Reynolds. Sept., 1926.
238. Report, South Mississippi branch experiment station, 1926. E. B. Ferris and W. S. Anderson. Dec., 1926.
239. Report, Holly Springs branch experiment station, 1926. C. T. Ames. Dec., 1926.
240. Report, Raymond branch experiment station, 1926. H. F. Wallace. Dec., 1926.
241. Cotton fertilizers and varieties, Central station, 1926. J. F. O'Kelly, C. B. Anders and W. W. Hull. Dec., 1926.

MISSOURI AGRICULTURAL EXPERIMENT STATION, COLUMBIA

BULLETINS

228. New knowledge, one year's work, agricultural experiment station (Report of the director, July 1, 1923 to June 30, 1924). F. B. Mumford. Jan., 1925.
229. Fulghum oats for Missouri. L. J. Stadler. Jan., 1925.
230. Testing fertilizers for Missouri farmers, 1924, (Report of chemist). L. D. Haigh. Feb., 1925.

231. Blackberry, raspberry and dewberry culture. H. G. Swartwout. Mar., 1925.
232. Gooseberries and currants. H. G. Swartwout. Apr., 1925.
233. Grafting, budding and early care of fruit trees. T. J. Talbert. May, 1925.
234. Meadow and pasture management in the Ozark region of Missouri. C. A. Helm. May, 1925.
235. The brown loess soils of Missouri and their utilization. H. H. Krusekopf. June, 1925.
236. Some new developments in agricultural science, one year's work, agricultural experiment station (Report of the director; July 1, 1924, to June 30, 1925). F. B. Mumford. Jan., 1926.
237. The draft of farm wagons as affected by height of wheel and width of tire. J. C. Wooley and M. M. Jones. Dec., 1925.
238. The soil experiment fields of Missouri. F. L. Duley and M. F. Miller. Mar., 1926.
239. Testing fertilizers for Missouri farmers, 1925. L. D. Haigh. Feb., 1926.
240. Potato growing in Missouri. J. T. Quinn. Mar., 1926.
241. How to make good bread from Missouri soft wheat flour. E. M. Davis and J. A. Cline. Apr., 1926.
242. Missouri strawberries. T. J. Talbert. May, 1926.
243. Farm lighting systems. M. M. Jones. Nov., 1926.
244. Solving farm problems by research: One year's work, agricultural experiment station (Report of the director, July 1, 1925, to June 30, 1926). F. B. Mumford and S. B. Shirky. Nov., 1926.

RESEARCH BULLETINS

73. The relation of feed consumed to protein and energy retention. A. G. Hogan, L. A. Weaver, A. T. Edinger and E. A. Trowbridge. Jan., 1925.
74. Rural population groups. E. L. Morgan and Owen Howells. Mar., 1925.
75. Annual and biennial bearing in York apples. H. D. Hooker. Apr., 1925.
76. The effect of a varying moisture supply upon the development and composition of the maize plant at different periods of growth. M. F. Miller and F. L. Duley. May, 1925.
77. The estimation of pectin and a study of the constitution of pectin. C. F. Ahmann and H. D. Hocker. June, 1925.
78. The correlation between sexual maturity and egg production. H. L. Kempster. July, 1925.
79. A comparison of Guernsey sires, based on the average "mature equivalent" fat production of the daughters and their dams. C. W. Turner. Aug., 1925.
80. The course of skeletal growth in the dairy cow. Samuel Brody and A. C. Ragsdale. Sept., 1925.
81. The adequacy of synthetic rations for the growth of chicks. A. G. Hogan, N. B. Guerrant and H. L. Kempster. Oct., 1925.
82. The effect on the viscosity, bacterial flora, and quality of the resulting ice cream when the ice cream mixture is re-emulsified, re-viscolized, or re-homogenized. W. H. E. Reid and S. F. Scism. Oct., 1925.
83. The physical composition of a lean, a half fat, and a fat beef carcass and the relative cost of the nutrients contained in each. A. T. Edinger. Nov., 1925.
84. Missouri farm prices and purchasing power. D. R. G. Cowan. Feb., 1926.
85. The utilization of pentoses by yeasts and the composition of plant gums. O. D. Abbott. Mar., 1926.
86. The normal oestrous cycle in the sow. F. F. McKenzie. Apr., 1926.
87. A study of the use of Missouri soft wheat flour in making light bread. E. M. Davis and J. A. Cline. July, 1926.
88. The relation of the date of sexual maturity to egg production. H. L. Kempster. Aug., 1926.
89. Growth and development, with special reference to domestic animals: II, A new method for measuring surface area and its utilization to determine the relation between growth in surface area and growth in weight and skeletal growth in dairy cattle. Samuel Brody and E. C. Elting. Sept., 1926.
90. Physiology of reproduction in horticultural plants: I, Reproduction and metabolic efficiency in the tomato. A. E. Murneek. Sept., 1926.
91. The effect of processing on the dispersion of fat in an ice cream mixture. W. H. E. Reid and W. K. Moseley. Oct., 1926.
92. Some protein analogies of the mycelium of *Fusarium lycopersici*. I. T. Scott. Oct., 1926.
93. Taxation of farms in Missouri. C. O. Brannen and S. D. Gromer. Nov., 1926.

94. Some relations between fertility and the composition of the diet. A. G. Hogan and H. M. Harshaw. Nov., 1926.
95. Correlation of chemical composition with hardness in brambles. R. V. Lott. Dec., 1926.

MONTANA AGRICULTURAL EXPERIMENT STATION, BOZEMAN**BULLETINS**

170. Montana insect pests for 1923 and 1924, being the twentieth report of the state entomologist of Montana. R. A. Cooley. Jan., 1925.
171. Big scale corn raising in Montana. H. E. Selby. Jan., 1925.
172. Alkali soils in Montana. Edmund Burke and R. M. Pinckney. Jan., 1925.
173. Tomato seed selection. C. C. Starring. Feb., 1925.
174. Soils of Daniels County, soil reconnaissance of Montana, preliminary report. L. F. Gieseke. Feb., 1925.
175. Farming business in the Gallatin Valley, a study of factors affecting the profits of irrigated farms from 1918 to 1922, with comparable data for 1913. H. E. Selby. Feb., 1925.
176. Winter feeding beef calves. C. N. Arnett, R. C. McChord and J. O. Tretsven. Feb., 1925.
177. Furrow drill for sowing winter wheat in central Montana. R. W. May and Clyde McKee. May, 1925.
178. A study of incubation. Edmund Burke. July, 1925.
179. Soils of Roosevelt County, soil reconnaissance of Montana, preliminary report. L. F. Gieseke. Aug., 1925.
180. The barberry eradication campaign in Montana, its object, nature and progress. H. E. Morris and W. L. Popham. Oct., 1925.
181. Infectious abortion in sheep, a preliminary report. Howard Welch and Hadleigh Marsh. Nov., 1925.
182. The capacity of irrigation and drainage wells. H. E. Murdock. Dec., 1925.
183. Storage dry rot of potatoes. H. E. Morris. Jan., 1926.
184. Field wilt (*Fusarium*) of potatoes. H. E. Morris. Jan., 1926.
185. Statistics of dry-land farming areas in Montana. H. E. Selby. Jan., 1926.
186. Sore mouth in lambs and other forms of necrobacillosis in sheep. Howard Welch. Jan., 1926.
187. Wintering beef cows in northern Montana. C. N. Arnett, A. L. Baker and Louis Vinke. Feb., 1926.
188. Wintering beef calves and yearlings in northern Montana. C. N. Arnett, A. L. Baker and Louis Vinke. Feb., 1926.
189. The protein test in marketing wheat. W. O. Whitcomb and E. J. Bell, jr. July, 1926.
190. Centrifugal pump tests. H. E. Murdock. July, 1926.
191. The weight and lateral pressure of sunflower silage. H. E. Murdock. Aug., 1926.
192. Fattening pigs with rye. G. W. Morgan and C. N. Arnett. Sept., 1926.
193. Growing corn on irrigated land. Dan Hansen. Oct., 1926.
194. Experiments with corn on dry land, at the Huntley branch station. A. E. Seamans. Nov., 1926.
195. Irrigation and drainage problems in the Gallatin Valley. H. E. Murdock. Nov., 1926.
196. Montana's barberry campaign. H. E. Morris and W. L. Popham. Dec., 1926.
197. Wheat experiments at the Northern Montana branch station. G. W. Morgan and M. A. Bell. Dec., 1926.
198. Soils of Valley County, soil reconnaissance of Montana, preliminary report. L. F. Gieseke. Dec., 1926.
199. Soils of Phillips County, soil reconnaissance of Montana, preliminary report. L. F. Gieseke. Dec., 1926.

NEBRASKA AGRICULTURAL EXPERIMENT STATION, LINCOLN**BULLETINS**

205. Tenure and farm investment in Nebraska. J. O. Rankin. Feb., 1926.
206. Annual forage crops. T. A. Kieselbach and Arthur Anderson. Apr., 1925.
207. The spindle-tuber disease, one cause of "run-out" seed potatoes. H. O. Werner. Apr., 1925. Popular edition of Research buls. 24 and 32.
208. Hog prices. H. C. Filley. May, 1925.

209. Co-operative marketing of livestock in Nebraska. Harold Hedges and H. C. Filley. Dec., 1925.
210. Steps to Nebraska farm ownership. J. O. Rankin. Feb., 1926.
211. Corn supplements and substitutes for fattening lambs. H. D. Fox. Feb., 1926.
212. Nebraska tractor tests, 1924 and 1925. E. E. Brackett, O. W. Sjogren, C. W. Smith and Lew Wallace. Feb., 1926.
213. (North Platte experimental substation Bul. 25.) Spring grains, time of seeding and comparative yields. L. L. Zook. Mar., 1926.
214. (North Platte experimental substation Bul. 26.) Pork production at the North Platte substation. W. P. Snyder. Nov., 1926.
215. A survey of the cattle industry in the Nebraska sand hills. Harold Hedges. Oct., 1926.
216. Lamb feeding experiments in the sugar beet growing districts. J. A. Holden. Nov., 1926.

RESEARCH BULLETINS

29. Further studies on the effect of environment on potato degeneration diseases. R. W. Goss and G. L. Peltier. Jan., 1925.
30. An inquiry into the cause of the increase of tuberculosis of swine. Leunis Van Es and H. M. Martin. Feb., 1925.
31. Winter wheat investigations. T. A. Kiesselbach. Nov., 1925.
32. The spindle-tuber disease as a factor in seed potato production. H. O. Werner. May, 1926.
33. The immediate effect of gametic relationship and of parental type upon the kernel weight of corn. T. A. Kiesselbach. Dec., 1926.
34. A study of the environmental conditions influencing the development of stem rust in the absence of an alternate host: III, Further studies of the viability of the urediniospores of *Puccinia graminis tritici*. G. L. Peltier. Oct., 1925.
35. A study of the environmental conditions influencing the development of stem rust in the absence of an alternate host: IV, Overwintering of urediniospores of *Puccinia graminis tritici*; V, the period of initial infection of urediniospores of *Puccinia graminis tritici* on wheat; VI, influence of light on infection and subsequent development of urediniospores of *Puccinia graminis tritici* on wheat. G. L. Peltier. Nov., 1925.
36. Alfalfa investigations. T. A. Kiesselbach and Arthur Anderson. Dec., 1926.
37. Studies on the *Ascaris lumbricoides*. H. M. Martin. Dec., 1926.
38. Nutrient requirements of growing chicks. F. E. Mussehl. Dec., 1926.
39. The differential reaction of strains within a variety of wheat to physiologic forms of *Puccinia graminis tritici*. T. A. Kiesselbach and G. L. Peltier. Dec., 1926.

NEVADA AGRICULTURAL EXPERIMENT STATION, RENO

BULLETINS

108. The alfalfa weevil in Nevada and its control by spraying. S. J. Snow. May, 1925.
109. The common chokecherry (*Prunus demissa*), as a plant poisonous to sheep and cattle. C. E. Fleming, M. R. Miller and L. R. Vawter. Mar., 1926.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION, DURHAM

BULLETINS

216. Progress of agricultural experiments, 1924, a report of the director for the year 1924. J. C. Kendall. Feb., 1925.
217. Adjusting farm production in Cheshire County, N. H., to market demands. H. I. Richards and H. A. Rollins. May, 1925.
218. Inspection of commercial feeding-stuffs, 1925, made for the State department of agriculture. T. G. Phillips and T. O. Smith. Aug., 1925.
219. Inspection of commercial fertilizers for 1925, made for the State department of agriculture. T. G. Phillips, T. O. Smith and A. W. Petre. Nov., 1925.
220. Results of seed tests for 1925, made for the State department of agriculture. M. G. Eastman. Dec., 1925.
221. Progress of agricultural experiments, 1925, a report of the director for the year 1925. J. C. Kendall. Feb., 1926.
222. "Can New Hampshire produce more of what she eats?" An economic survey of the demand for certain commodities as indicated by the purchases of retail stores, hotels and camps within the state. H. C. Woodworth, L. B. Lincoln and H. I. Richards. June, 1926.

- 223. Commercial apple industry of New Hampshire. G. F. Potter and H. A. Rollins. July, 1926.
- 224. Inspection of commercial feeding-stuffs, 1926, made for the state department of agriculture. T. G. Phillips, T. O. Smith and A. W. Petre. July, 1926.
- 225. Inspection of commercial fertilizers for 1926, made for the state department of agriculture. T. G. Phillips, T. O. Smith and A. W. Petre. Oct., 1926.
- 226. Results of seed tests for 1926, made for the State department of agriculture. M. G. Eastman. Nov., 1926.

TECHNICAL BULLETINS

- 28. Effect of phosphorus upon the yield and time of maturity of the tomato. J. R. Hepler and H. R. Kraybill. June, 1925.
- 29. Some chemical constituents of fruit spurs associated with blossom bud formation in the Baldwin apple. H. R. Kraybill, G. F. Potter, S. W. Wentworth, P. T. Blood and J. T. Sullivan. Dec., 1925.
- 30. The European corn borer, the relation of the larvæ to submergence. M. F. Crowell. June, 1926.
- 31. Some wool characters and their inheritance. C. B. Davenport and E. G. Ritzman. July, 1926.
- 32. Black flies in New Hampshire. W. C. O'Kane. Oct., 1926.

NEW JERSEY AGRICULTURAL EXPERIMENT STATION, NEW BRUNSWICK

BULLETINS

- 410. The comparative value of carbon bisulfide and other organic compounds as soil insecticides for control of the Japanese beetle (*Popillia japonica* Newm.). W. E. Fleming. Feb., 1925.
- 411. Control of the cranberry girdler by submerging in water. C. S. Beckwith. Feb., 1925.
- 412. Results of seed and legume inoculant inspection for 1924. J. G. Fiske. Mar., 1925.
- 413. Fertilizer registrations for 1925. C. S. Cathcart. Jan. 21, 1925.
- 414. The chemical composition of the soils of the Chatsworth area in New Jersey. A. W. Blair and A. L. Prince. Apr., 1925.
- 415. Analyses of commercial feeding stuffs and registration for 1925. C. S. Cathcart. June, 1925.
- 416. Agricultural production and marketing in Atlantic County, New Jersey. W. C. Funk, A. G. Waller, A. R. Eldred and Henry Keller, jr. July, 1925.
- 417. Studies on the biology of sewage disposal: The fauna of Imhoff tanks. J. B. Lackey. Sept., 1925.
- 418. Shucking oysters, one of New Jersey's growing industries. W. H. Dumont. July, 1925.
- 419. Some chemical factors involved in arsenical injury of fruit trees. Nico Mogendorff. Oct., 1925.
- 420. The injurious effect of submergence on the cranberry plant. Steich Wakabayashi. Dec., 1925.
- 421. Nitrogen availability studies on crops harvested at different stages of growth. G. H. Singleton. Oct., 1925.
- 422. Analyses of commercial fertilizers, fertilizer supplies and home mixtures for 1925. C. S. Cathcart. Dec., 1925.
- 423. Relation of summer rainfall to mosquito prevalence. T. J. Headlee. Dec., 1925.
- 424. Analyses of materials sold as insecticides and fungicides during 1925. C. S. Cathcart and R. L. Willis. Nov., 1925.
- 425. Bacillary white diarrhea control in New Jersey, 1924-1925. F. R. Beaudette and J. J. Black. Feb., 1926.
- 426. Analyses of commercial fertilizers and ground bone; analyses of agricultural lime, 1925. C. S. Cathcart. Dec., 1925.
- 427. Studies on the biology of sewage disposal, Fourth annual report of the Sewage substation for the year ending June 30, 1925. Willem Rudolfs [and others]. Feb., 1926.
- 428. Results of seed and legume inoculant inspection for 1925. J. G. Fiske. Feb., 1926.
- 429. Creamery inspection in New Jersey, Sixth annual report, 1925. G. I. Ball. Feb., 1926.
- 430. More lime needed for New Jersey farms. A. W. Blair. Feb., 1926.
- 431. Fertilizer registrations for 1926. C. S. Cathcart. Jan., 1926.
- 432. Spring cauliflower in New Jersey. H. F. Huber. June, 1926.

433. Cultural methods for reducing sweet potato losses caused by stem rot, the use of two and three plants in a hill. R. F. Poole. Apr., 1926.
434. Relation of the honeybee to fruit pollination in New Jersey, a preliminary report. Ray Hutson. June, 1926.
435. Analyses of commercial feeding stuffs and registrations for 1926. C. S. Cathcart. June, 1926.
436. The relation of the soil nitrogen to nodule development and fixation of nitrogen by certain legumes. Gunnar Giöbel. June, 1926.
437. Substantial accomplishments in New Jersey mosquito control. T. J. Headlee. Sept., 1926.
438. Feeding dairy cattle. C. B. Bender. July, 1927. Supersedes New Jersey Circ. 127.
439. The hawks of New Jersey and their relation to agriculture. L. A. Hausman. Jan., 1927.
440. Analyses of commercial fertilizers, fertilizer supplies and home mixtures for 1926. C. S. Cathcart. Oct., 1926.
441. Analyses of materials sold as insecticides and fungicides during 1926. C. S. Cathcart and R. L. Willis. Nov., 1926.
442. Utilization of food by young oysters. G. W. Martin. Feb., 1927.
443. Some principles of oyster dredging. J. R. Nelson. Feb., 1927.
444. Analyses of commercial fertilizers and ground bone; analyses of agricultural lime, 1926. C. S. Cathcart. Dec., 1926.

NEW MEXICO AGRICULTURAL EXPERIMENT STATION, STATE COLLEGE

BULLETINS

145. Preliminary pecan experiments. Fabian García and A. B. Fite. Jan., 1925.
146. Johnson grass eradication. J. C. Overpeck. Apr., 1925.
147. Artificial incubation of hen eggs in New Mexico. A. L. Walker and G. E. Voss. May, 1925.
148. Some common New Mexico plant diseases. R. F. Crawford. June, 1925.
149. Net requirements of crops for irrigation water in the Mesilla Valley, New Mexico. D. W. Bloodgood and A. S. Curry. June, 1925.
150. The relative feeding value and cost of milk in egg production. A. L. Walker. June, 1925.
151. Growing early cabbage. A. B. Fite. Jan., 1926.
152. Alfalfa variety tests. J. C. Overpeck and W. T. Conway. Mar., 1926.
153. The mutual influence of the proportion of the several nutrients, in feeds, on their digestibility: I, Crude fiber, the digestibility of rations containing varying amounts of alfalfa and paper pulp. H. W. Titus. Apr., 1926.
154. Milk goat improvement. O. C. Cunningham. May, 1926.
155. Bean feeding. C. P. Wilson and J. L. Lantow. June, 1926.
156. The fattening of steers on dry-land crops. J. L. Lantow, W. H. Black and D. R. Burnham, 1926.

NEW YORK CORNELL AGRICULTURAL EXPERIMENT STATION, ITHACA

BULLETINS

436. Results of experiments with oats in New York. H. H. Love and W. T. Craig. Jan., 1925.
437. Feeding work horses. M. W. Harper. Feb., 1925.
438. Economic studies of dairy farming in New York: III, Grade B milk with alfalfa roughage. E. G. Misner. Mar., 1925.
439. Rearing calves by the use of calf-meal gruel. L. A. Maynard, L. C. Norris and W. E. Krauss. June, 1925.
440. An economic study of the marketing of New York potatoes. M. P. Rasmussen. June, 1925.
441. Economic studies of dairy farming in New York: IV, Grade B milk with cash crops and mixed hay roughage, crop year 1921. E. G. Misner. Aug., 1925.
442. Economic studies of dairy farming in New York: V, Cheese-factory milk. E. G. Misner. Sept., 1925.
443. The marketing of cabbage. E. G. Misner. Oct., 1925.
444. The climate of New York state. R. A. Mordoff. Oct., 1925.
445. A preliminary survey of milk marketing in New York. L. J. Norton and Leland Spencer. Nov., 1925.
446. Index numbers of freight rates and their relation to agricultural prices and production. H. S. Gabriel. Dec., 1925.

447. The effect of some legumes on the yields of succeeding crops. T. L. Lyon. Dec., 1925.
448. Root and crown injury of apple trees. H. E. Thomas. Mar., 1926.
449. Biology and control of the white-pine weevil, *Pissodes strobi* Peck. S. A. Graham. June, 1926.
450. Results of sweet-corn suckering experiments. H. C. Thompson. June, 1926.
451. The relative efficiency of some copper dusts and sprays in the control of potato diseases and insect pests. O. C. Boyd. July, 1926.
452. Economic studies of dairy farming in New York: VI, Grade B milk with cash crops and mixed hay roughage, crop year 1922. E. G. Misner. Aug., 1926.
453. An economic study concerning the operations of fruit and vegetable shippers in western New York. R. B. Corbett. Sept., 1926.
454. The spruce gall-aphid (*Adelges abietis* Kaltenbach), Order, Homoptera, Family, Phylloxeridae. G. W. Herrick and T. Tanaka. Oct. 1926.
455. Economic studies of dairy farming in New York: VII, Grade B milk with cash crops and mixed hay roughage, crop year, 1923. E. G. Misner. Oct., 1926.
456. Sunflowers as compared with corn as a silage crop for New York. R. G. Wiggans. Nov., 1926.
457. An index number of farm taxes in New York, and its relation to various other economic factors. M. S. Kendrick. Dec., 1926.

MEMOIRS

85. Wire stem of cabbage. L. O. Gratz. Jan., 1925.
86. A study of the dietary relationships and the pathology of "stiffness" in swine. L. A. Maynard, S. A. Goldberg and R. C. Miller. Feb., 1925.
87. Studies in the transplanting of vegetable plants. W. E. Loomis. Feb., 1925.
88. The take-all disease of cereals and grasses caused by *Ophiobolus cariceti* (Berkeley and Broome) Saccardo. R. S. Kirby. Mar., 1925.
89. The gray bulb-rot of tulips caused by *Rhizoctonia tuliparum* (Kleb.) N. Comb. H. H. Whetzel and J. M. Arthur. Mar., 1925.
90. The production of volatile fatty acids in the intestinal tract of calves fed whole milk or cereal gruel. L. C. Norris. Apr., 1925.
91. The relation of soil moisture and nitrates to the effects of sod on plum and cherry trees. T. L. Lyon, A. J. Heinicke and B. D. Wilson. May, 1925.
92. The flora of the Cayuga Lake Basin, New York, vascular plants. K. M. Wiegand and A. J. Eames. July, 1925.
93. A study of the oyster-shell scale, *Lepidosaphes ulmi* (L.), and one of its parasites, *Aphelinus mytilaspidis* Le B.: Part I, Biology and morphology of the two forms of the oyster-shell scale; Part II, biology of a parasite of the oyster-shell scale. G. H. Griswold. July, 1925.
94. Variations within and between morphological varieties of oats and barley. R. G. Wiggans. July, 1925.
95. An explanation for the relative effects of timothy and clover residues in the soil on nitrate depression. B. D. Wilson and J. K. Wilson. Nov., 1925.
96. Interspecific transmission of mosaic diseases of plants. K. H. Fernow. Dec., 1925.
97. Calcium sulfate as a soil amendment. M. H. Cubbon. May, 1926.
98. The collection and utilization of pollen by the honey-bee. R. L. Parker. June, 1926.
99. The nitrogen and carbohydrate composition of the developing flowers and young fruits of the apple. F. S. Howlett. June, 1926.
100. A study of pogoniris varieties. A. W. W. Sand. July, 1926.
101. A list of the insects of New York, with a list of the spiders and certain other allied groups. M. D. Leonard. 1926.
102. A cytological study of two types of variegated pericarp in maize. F. R. Randolph. Aug., 1926.
103. The growth of certain microorganisms in planted and in unplanted soil. J. K. Wilson and T. L. Lyon. Oct., 1926.
104. Pasture studies. R. G. Wiggans. Nov., 1926.

NEW YORK STATE AGRICULTURAL EXPERIMENT STATION, GENEVA

BULLETINS

527. Susceptibility to dust and spray mixtures of the pear psylla (*Psylla pyricola* Förster). F. Z. Hartzell. July, 1925. Also popular edition.
528. The amended New York seed law and seed testing. M. T. Munn. July, 1925.
529. Investigations on the control of pear psylla. F. G. Munding. July, 1925.

530. Composition and cost of commercial feeding stuffs in 1924. A. W. Clark, W. F. Walsh, M. P. Sweeney and M. G. Moore. July, 1925.
531. New or noteworthy fruits, VIII. U. P. Hedrick. Oct., 1925.
532. Variations in varieties of canning peas, II. F. H. Hall. Nov., 1925.
533. The quality of packet vegetable seed on sale in New York in 1924. M. T. Munn. Nov., 1925.
534. Effect of pasteurization and cooling of milk upon the quality of Cheddar cheese. J. C. Marquardt and G. J. Hucker. Mar., 1926.
535. The mica ink-cap or glistening Coprinus. F. C. Stewart. July, 1926.
536. A study of the manufacture of water ices and sherbets. A. C. Dahlberg. Sept., 1926.
537. Control of seedbed diseases of cruciferous crops on Long Island by the mercuric chloride treatment for cabbage maggot. E. E. Clayton. Nov., 1926.
538. The preservative action in catsup of salt, sugar, benzoate, and acid. C. S. Pederson and R. S. Breed. Nov., 1926.
539. Composition and prices of commercial fertilizers in New York in 1926. L. L. Van Slyke. Nov., 1926.
540. The dwarfing, shriveling, and dropping of cherries and prunes. W. O. Gloyer. Dec., 1926.

TECHNICAL BULLETINS

110. A gaseous fermentation of tomato pulp and related products. F. L. Mickle and R. S. Breed. Jan., 1925.
111. The texture of ice cream. A. C. Dahlberg. Mar., 1925.
112. The micrococci associated with dairy utensils. A. H. Robertson. July, 1925.
113. Viscosity, surface tension, and whipping properties of milk and cream. A. C. Dahlberg and J. C. Hening. Aug., 1925.
114. The effect of straw on plant growth. R. C. Collison and H. J. Conn. Oct., 1925.
115. Soil flora studies: VI, The punctiform-colony-forming bacteria in soil. H. J. Conn. Oct., 1925.
116. The adherence to foliage of sulfur in fungicidal dusts and sprays. R. W. Thatcher and L. R. Streeter. Nov., 1925.
117. The effect of certain lactic acid producing streptococci upon the flavor of Cheddar cheese. G. J. Hucker and J. C. Marquardt. Mar., 1926.
118. Studies on the coccaceae: VI, The agglutination reaction as a test for differentiating the micrococci. G. J. Hucker.— VII, The serological relationships of strains of micrococci isolated from similar habitats. G. J. Hucker and A. H. Robertson. Mar., 1926.
119. Non-thermophilic, spore-forming bacteria associated with pasteurizing equipment. A. H. Robertson, M. W. Yale and R. S. Breed. Mar., 1926.
120. The microscopic appearance of market milk and cream. R. S. Breed. Mar., 1926.
121. Further studies concerning the aphiscidal properties of tobacco dust. H. C. Hockett. Aug., 1926.
122. A comparison of the Babcock, Gerber, and Roese-Gottlieb methods for determining the percentage of fat in milk and cream. A. C. Dahlberg, G. E. Holm and H. C. Troy. Nov., 1926.
123. Anthocyanins appearing in the pigment of Isabella grapes. R. J. Anderson and F. P. Nabenhauer. Dec., 1926.
124. Studies with phytosterols: I, The phytosterols of rice bran fat. F. P. Nabenhauer and R. J. Anderson.— II, The phytosterols of corn oil. R. J. Anderson and R. L. Shriner.— III, The phytosterols of wheat germ oil. R. J. Anderson, R. L. Shriner and G. O. Burr.— IV, The distribution of dihydrositosterol in plant fats. R. J. Anderson, F. P. Nabenhauer and R. L. Shriner.— V, The reduction products of certain plant sterols. R. J. Anderson and R. L. Shriner.— VI, Properties of cholesterol obtained from different sources. R. J. Anderson. Dec., 1926.

NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION, STATE COLLEGE
STATION, RALEIGH

BULLETINS

247. Recent results of work of the N. C. agricultural experiment station and the present program of work. Apr., 1925.
248. Anthracnose of dewberries and its control. F. A. Wolf and B. O. Dodge. Feb., 1926.
249. Curing meat in North Carolina. E. H. Hostetler and L. H. McKay. Oct., 1926.
250. Fertilizer experiments with cotton. C. B. Williams, S. K. Jackson and H. B. Mann. Dec., 1926.

TECHNICAL BULLETINS

- 26. Studies on treatment of cotton seed. S. G. Lehman. July, 1925.
- 27. Fowl typhoid and fowl cholera. B. F. Kaupp and R. S. Dearstyne. July, 1925.
- 28. Leaf scorch disease of strawberries. F. A. Wolf. Apr., 1926.

NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION, STATE COLLEGE
STATION, FARGO

BULLETINS

- 185. Advertising farm products by farmers and farm organizations. A. H. Benton. Jan., 1925.
- 186. A survey of sheep production on 200 farms in northeastern North Dakota and northwestern Minnesota, and the general sheep situation. R. D. Jennings. Jan., 1925.
- 187. Vegetable varieties for North Dakota. A. F. Yeager. Feb., 1925.
- 188. Fruit culture in North Dakota. A. F. Yeager. Feb., 1925.
- 189. Dickinson substation report for 1922 and 1923. Leroy Moomaw. Feb., 1925.
- 190. Fact-finding for northwestern North Dakota farming, 1908-1924. A. C. Kuenning. Feb., 1925.
- 191. Protein content of North Dakota wheat. C. E. Mangels. July, 1925.
- 192. Composition and maturity of corn. T. H. Hopper. July, 1925.
- 193. Winter rye in North Dakota. T. E. Stoa. Aug., 1925.
- 194. Experiment station progress: Report for the biennium, July 1, 1923, to June 30, 1925. P. F. Trowbridge. Jan., 1926.
- 195. Making use of our birds. O. A. Stevens. Mar., 1926.
- 196. The ox stomach, some facts which cattle owners should know. R. S. Amadon. May, 1926.
- 197. Sweet clover seed studies. O. A. Stevens and H. D. Long. May, 1926.
- 198. Studies on the use of raw rock phosphate. H. L. Walster. Apr., 1926.
- 199. Cost of producing crops in North Dakota. R. E. Willard. July, 1926.
- 200. Hybrid selections of Marquis and Kota, a comparative study with regard to disease resistance, yield and baking quality. L. R. Waldron. Sept., 1926.
- 201. Some farming changes in southwestern North Dakota, 1922 to 1925. R. E. Willard. Sept., 1926.
- 202. Studies on the nature of wilt resistance in flax. C. I. Nelson and Mayme Dworak. Sept., 1926.
- 203. Some tax problems of North Dakota farmers. R. W. Newton and A. H. Benton. Oct., 1926.

OHIO AGRICULTURAL EXPERIMENT STATION, WOOSTER

BULLETINS

- 383. The tractor on Ohio farms, its cost of operation and its effect on the organization of the farm. F. L. Morison. May, 1925.
- 384. The soybean in Ohio. L. E. Thatcher. May, 1925.
- 385. Blooming period and yield of apples, a 15-year average. C. W. Ellenwood. July, 1925.
- 386. An introductory study of the Acarina, or mites, of Ohio. A. E. Miller, Aug., 1925.
- 387. Subterranean aphids of Ohio. C. E. Cutright. Sept., 1925.
- 388. The striped cucumber beetle (*Diabrotica vittata* Fabr., order, Coleoptera, family, Chrysomelidae). J. S. Houser and W. V. Balduf. Nov., 1925.
- 389. Protein requirement of dairy cows. A. E. Perkins. Dec., 1925.
- 390. Control of smuts of wheat and oats with special reference to dust treatments. R. C. Thomas. Dec., 1925.
- 391. Fruit varieties in Ohio, I. J. H. Gourley and C. W. Ellenwood. Feb., 1926.
- 392. Forty-fourth annual report of the Ohio agricultural experiment station for the year ended June 30, 1925. C. G. Williams. 1926.
- 393. Spraying program for the orchard and fruit garden. H. C. Young, J. S. Houser and F. H. Ballou. Mar., 1926.
- 394. Dependable fruits, varieties for commercial and home orchards in Ohio. J. H. Gourley and C. W. Ellenwood. Apr., 1926. Supersedes 313.
- 395. Mineral and vitamin requirements of pigs. Gustav Bohstedt. July, 1926.
- 396. Variations in costs of producing corn, wheat, and other crops in Greene County, Ohio. J. I. Falconer and J. F. Dowler. Sept., 1926.

397. Corn stalks vs. field plots as a guide to the fertility requirements of the corn crop. F. A. Welton, V. H. Morris and R. W. Gerdel. Oct., 1926.
398. Hogging down corn. W. L. Robison. Nov., 1926.
399. The relation of weather to the date of planting potatoes in northern Ohio. John Bushnell. Dec., 1926.
400. The phosphorus intake of pre-school children as shown by a dietary study made by the individual method. Hughina McKay. Dec., 1926.
401. Stomach worms and nodular worms in lambs. D. S. Bell. Dec., 1926.

SOIL SURVEY REPORT

1. Soil survey of Miami County, Ohio. E. R. Allen and Oliver Gossard. Dec., 1924.

OKLAHOMA AGRICULTURAL EXPERIMENT STATION, STILLWATER

BULLETINS

150. Cultural methods for corn and grain sorghums on Oklahoma soils. H. F. Murphy. Jan., 1925.
151. Scrub vs. purebred ram. A. E. Darlow. [1925.]
152. Studies in nutrition. Paul Menaul. [1925.]
153. Inheritance of characters in sheep. A. E. Darlow. [1925.]
154. Cotton variety tests in Oklahoma. Glen Briggs. [1925.]
155. The results of some fertility experiments on Oklahoma soils. H. F. Murphy. [1925.]
156. Commercial buttermilk. A. D. Burke. Jan., 1926.
157. Boll weevil in Oklahoma. C. E. Sanborn. Feb., 1926.
158. A study of some commercial ice cream improvers. G. H. Isenberg and A. C. Baer. Jan., 1926.
159. Improving stands of grain sorghums by seed treatments. H. H. Finnell. Apr., 1926.

OREGON AGRICULTURAL EXPERIMENT STATION, CORVALLIS

BULLETINS

211. A study of the biological activities in certain acid soils. W. V. Halversen. Feb., 1925.
212. Pollination and growing of the cherry. C. E. Schuster. May, 1925.
213. Common vetch. H. A. Schoth and G. R. Hyslop. June, 1925.
214. Blight resistance in pears and characteristics of pear species and stocks. F. C. Reimer. June, 1925.
215. Phloridzin: I, The significance of phloridzin in apple and pear tissue; II, the hydrolysis and estimation of phloridzin. E. M. Harvey. June, 1925.
216. The control of core break-down in pears. Henry Hartman. June, 1925.
217. Perennial canker of apple trees, a preliminary report. S. M. Zeller and Leroy Childs. Aug., 1925.
218. Fattening lambs for the late winter market. H. K. Dean and E. L. Potter. Aug., 1925.
219. Cost of producing mutton and wool on eastern Oregon ranges. E. L. Potter and H. A. Lindgren. Sept., 1925.
220. Cost of producing beef on the ranges of eastern Oregon. E. L. Potter. Nov., 1925.
221. Potato wilt and its control. M. B. McKay. Mar., 1926.
222. European canker of pomaceous fruit trees. S. M. Zeller. Mar., 1926.
223. The tree crickets of Oregon. B. B. Fulton. June, 1926.
224. Wintering stock steers. E. L. Potter and Robert Withycombe. Sept., 1926.

PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION, STATE COLLEGE

BULLETINS

191. Construction and management of the bank storage cellar. L. M. Marble and R. D. Anthony. Jan., 1925.
192. Fertility in the apple orchard. R. D. Anthony and J. H. Waring. Feb., 1925.
193. I, Tobacco resistant to black root-rot in Pennsylvania; II, a method of eliminating experimental error in comparative field tests. C. R. Orton and Otto Olson. Mar., 1925.
194. (Technical bulletin.) Studies of inheritance of earliness in certain Avena crosses. C. F. Noll. Apr., 1925.
195. Development and value of Kentucky blue grass pastures. J. W. White and F. J. Holben. May, 1925.

196. 38th annual report of the director for the fiscal year ending June 30, 1925. R. L. Watts. July, 1925.
197. The red-banded leaf-roller (*Eulia velutinana* Wlk.). S. W. Frost. Aug., 1925.
198. Agricultural production and marketing in Lebanon County, Pennsylvania, a report of the results of a survey of agricultural conditions in Lebanon County, Pennsylvania, for the purpose of furnishing an economic basis for a production and marketing program. A. C. Berger, P. R. Taylor, B. H. Critchfield and R. S. Kifer. Sept., 1925.
199. Experiments on the control of black-leg disease of cabbage. E. G. Rex. Oct., 1925.
200. Red clover seed for Pennsylvania. C. F. Noll and C. J. Irvin. Jan., 1926.
201. Soybean hay for milk production. S. I. Bechdel. May, 1926.
202. (Technical bulletin.) Formaldehyde and other disinfectants in the control of lettuce diseases. W. S. Beach. May, 1926.
203. Fire blight. E. L. Nixon. June, 1926.
204. 39th annual report of the director for the fiscal year ending June 30, 1926. R. L. Watts. July, 1926.
205. The dusky leaf roller. S. W. Frost. Aug., 1926.
206. The effect of various sources of animal protein on egg production. P. T. Kistler, T. B. Charles and H. C. Kandel. Sept., 1926.
207. Quality of silage for milk production as affected by stage of maturity of corn. S. I. Bechdel. Nov., 1926.
208. Milk marketing in Pennsylvania, milk marketing plans. R. W. Bartlett. Dec., 1926.

PORTO RICO AGRICULTURAL EXPERIMENT STATION, MAYAGUEZ

BULLETIN

31. Experiments with fertilizers for coffee in Porto Rico. T. B. McClelland. Nov., 1926.

RHODE ISLAND AGRICULTURAL EXPERIMENT STATION, KINGSTON

BULLETINS

199. Economical use of nitrogen, phosphorus and potassium by barley, oats and wheat in solution cultures. F. R. Pember and F. T. McLean. Feb., 1925.
200. The inheritance of body-weight in poultry: I, In the Cornish-Hamshire cross. H. G. May. May, 1925.
201. The substitution of stable manure by fertilizers, green manures and peat, II. B. L. Hartwell and F. K. Crandall. June, 1925.
202. Field observations and laboratory findings in paralysis of the domestic fowl. H. G. May, R. P. Tittler and Kenneth Goodner. Dec., 1925.
203. Concerning wholesale market preferences for fruits and vegetables in Providence, Rhode Island. R. B. Corbett. Jan., 1926.
204. Comparative studies on *Salmonella gallinarum* and *Salmonella pullorum*. H. G. May and Kenneth Goodner. May, 1926.
205. Nutrient needs of green house tomatoes. F. T. McLean and F. R. Pember. July, 1926.
206. Rhode Island agriculture, a statistical description. R. B. Corbett. Aug., 1926.

SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION, CLEMSON COLLEGE

BULLETINS

222. Studies with anthracnose infection in cotton seed. C. A. Ludwig. Apr., 1925.
223. Progress report on studies on boll weevil control under South Carolina conditions. G. M. Armstrong, R. W. Moreland and R. C. Gaines. June, 1925.
224. Analyses of commercial fertilizers, [1924-1925]. R. N. Brackett and H. M. Stackhouse. Oct., 1925.
225. Cotton experiments at Florence. E. E. Hall and G. M. Armstrong. Jan., 1926.
226. Price economics of what farmers sell. W. C. Jensen. May, 1926.
227. Sources of ammonia. J. J. Skinner and T. S. Buie. May, 1926.
228. Soybean forage for hogs. E. G. Godbey and A. L. Durant. June, 1926.
229. Analysis of commercial fertilizers, [1925-1926]. R. N. Brackett and H. M. Stackhouse. Aug., 1926.
230. Farming for profits, Anderson and similar areas of South Carolina. W. C. Jensen. June, 1926.
231. The taxation system of South Carolina. W. H. Mills. Sept., 1926.
232. Experiments with certified Irish cobbler potatoes. A. M. Musser. Dec., 1926.

233. A study of economic conditions in the Lexington-Batesburg section of South Carolina. B. A. Russell. Oct., 1926.
 234. Protein supplements to corn in dry lot for fattening pigs. E. G. Godbey and A. L. Durant. Oct., 1926.

SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION, BROOKINGS

BULLETINS

212. Effects of feeding extremely wide rations to horses. B. A. Dunbar. Mar., 1925.
 213. Growing flax in South Dakota. A. N. Hume, E. W. Hardies and Clifford Franzke. Apr., 1925.
 214. Correlations between length of spike and culm in wheat and certain characters of progeny, including yield. A. N. Hume, E. W. Hardies and Clifford Franzke. Apr., 1925.
 215. Soybeans for dairy cows. T. M. Olson. June, 1925.
 216. Improving winter rations for pigs. A. H. Kuhlman and J. W. Wilson. Nov., 1925.
 217. The wheat-stem maggot. G. I. Gilbertson. Nov., 1925.
 218. The bacterial flora of normal cow's udder. Lynn Copeland and T. M. Olson. Feb., 1926.
 219. Soft corn for fattening cattle. J. W. Wilson and A. L. Bushey. May, 1926.
 220. The date of seeding winter rye when the ground is dry or wet. A. N. Hume, E. W. Hardies and Clifford Franzke. Sept., 1926.

TENNESSEE AGRICULTURAL EXPERIMENT STATION, KNOXVILLE

BULLETINS

132. Spraying early apples for blotch control. J. A. McClintock and C. D. Sherbakoff. Mar., 1925.
 133. The corn ear worm on tomato. Simon Marcovitch and S. A. Robert. Dec., 1925.
 134. Supplementary investigations of the fluosilicates as insecticides, with observations on the effect of heat and drouth on the Mexican bean beetle. Simon Marcovitch. Jan., 1926.
 135. Effects of liming and green manuring on crop yields and on soil supplies of nitrogen and humus, results of 20 years' experiments in a cowpea-wheat rotation. C. A. Mooers. May, 1926.
 136. The oat crop. C. A. Mooers. Dec., 1926.

TEXAS AGRICULTURAL EXPERIMENT STATION, COLLEGE STATION

BULLETINS

326. Breeding experiments with blackberries and raspberries. Helge Ness. Apr., 1925.
 327. An agricultural economic survey of Rockwall County, Texas: A typical Blackland cotton farming area. L. P. Gabbard. Feb., 1925.
 328. The life history and control of the pecan nut case bearer [*Acrobasis caryae*, Grote.] S. W. Bilsing. Apr., 1926.
 329. Energy-production coefficients of American feeding stuffs. G. S. Fraps. Mar., 1925.
 330. Farm mortgage financing in Texas. V. P. Lee. Apr., 1925.
 331. The value of various feeds in the control of coccidiosis in chicks. R. M. Sherwood. May, 1925.
 332. Biometrical studies of lint and seed characters in cotton. G. N. Stroman. Aug., 1925.
 333. Heritable chlorophyll deficiencies in seedling cotton. G. N. Stroman and C. H. Maboney. Aug., 1925.
 334. Trend of taxes on agricultural land in Texas and distribution of the farmer's tax-dollar. F. A. Buechel. Sept., 1925.
 335. Commercial fertilizers in 1924-25. G. S. Fraps and S. E. Asbury. Sept., 1925.
 336. Commercial feeding stuffs, from September 1, 1924, to August 31, 1925. Bonney Youngblood, F. D. Fuller and S. D. Pearce. Dec., 1925.
 337. Soils of Eastland, El Paso, Lubbock, and San Saba Counties. G. S. Fraps. Jan., 1926.
 338. Abstracts of bulletins 305 to 327, inclusive. A. D. Jackson. Apr., 1926.
 339. The cotton flea hopper. H. J. Reinhard. Apr., 1926.
 340. The effect of spacing on the yield of cotton. E. B. Reynolds. May, 1926.
 341. Cottonseed products as feed, fertilizer, and human food. A. B. Conner [and others]. June, 1926.

- 342. Angleton grass. V. E. Hafner. June, 1926.
- 343. Studies of a new Fusarium wilt of spinach in Texas. J. J. Taubenhaus. July, 1926.
- 344. Feeding bone meal to range cattle on the coastal plains of Texas, preliminary report. H. Schmidt. July, 1926.
- 345. The possibilities of Brazil as a competitor of the United States in cotton growing. Bonney Youngblood. July, 1926.
- 346. Commercial fertilizers in 1925-26 and their uses. G. S. Fraps and S. E. Asbury. Nov., 1926.

UTAH AGRICULTURAL EXPERIMENT STATION, LOGAN

BULLETINS

- 192. Biennial report of the director for the years 1923 and 1924. William Peterson. Jan., 1925.
- 193. Cache County water conservation district, no. 1. William Peterson, G. D. Clyde, D. S. Jennings, M. D. Thomas and Karl Harris. Apr., 1925.
- 194. (Technical.) The influence of storage on the composition of flour. J. E. Greaves and C. T. Hirst. Aug., 1925.
- 195. Field studies of sugar-beet nematode. George Stewart and A. H. Bateman. May, 1926.
- 196. The fruit tree leaf roller and its control by oil sprays. I. M. Hawley. June, 1926.
- 197. The pear leaf blister mite (*Eriophyes pyri* Pagnst.) as an apple pest. I. M. Hawley. June, 1926.
- 198. Report of the director for the 18-month period from January 1, 1925, to June 30, 1926. William Peterson. Dec., 1926.

VERMONT AGRICULTURAL EXPERIMENT STATION, BURLINGTON

BULLETINS

- 244. Commercial feeding stuffs. J. L. Hills, C. H. Jones and G. F. Anderson.—Brief of new agricultural seed law. Apr., 1925.
- 245. "Giant hill" potatoes a dangerous source of seed; a new phase of spindle-tuber. A. H. Gilbert. May, 1925.
- 246. The manufacture of commercial feeding stuffs. J. L. Hills. Aug., 1925.
- 247. Commercial feeding stuffs. J. L. Hills, C. H. Jones and G. F. Anderson. Aug., 1925.
- 248. Commercial fertilizers. J. L. Hills, C. H. Jones and G. F. Anderson. Sept., 1925.
- 249. Annual report (Thirty-second—thirty-eighth, 1918-19 to 1924-25 inclusive). J. L. Hills. Aug., 1925.
- 250. A study in Vermont dairy farming. J. A. Hitchcock. Oct., 1925.
- 251. Hubbard squash in storage, climate of storage rooms and changes in composition. M. B. Cummings and E. W. Jenkins. Nov., 1925.
- 252. Senescence and rejuvenescence in the cells of the potato plant. B. F. Lutman. Dec., 1925.
- 253. Agricultural seed inspection. A. S. Lutman. Dec., 1925.
- 254. Commercial feeding stuffs. J. L. Hills, C. H. Jones, G. F. Anderson and E. F. Boyce. Sept., 1926.
- 255. First twenty years of a variety apple orchard; apple cion selection. M. B. Cummings and E. W. Jenkins. Aug., 1926.
- 256. Studies in Vermont dairy farming: II, Enosburg, Franklin Co., area. P. K. Hooker. July, 1926.
- 257. Studies in tolerance of New England forest trees: V, Relation of the moisture content of the soil to the sensitiveness of the chloroplast to light. G. P. Burns. Sept., 1926.
- 258. Commercial fertilizers. C. H. Jones, G. F. Anderson and E. F. Boyce. Sept., 1926.
- 259. Agricultural seed. A. S. Lutman. Aug., 1926.
- 260. Thirty-ninth annual report, 1925-1926. J. L. Hills. Oct., 1926.

VIRGIN ISLANDS AGRICULTURAL EXPERIMENT STATION, ST. CROIX

BULLETINS

- 5. Production of sweet-potato seedlings at the Virgin Islands experiment station. J. B. Thompson. Dec., 1925.
- 6. Gardening in the Virgin Islands. W. M. Perry. May, 1926.

VIRGINIA AGRICULTURAL EXPERIMENT STATION, BLACKSBURG

BULLETINS

- 239. The dry-mix spray for peaches. F. J. Schneiderhan and R. H. Hurt. Jan., 1925.
- 240. The agricultural situation in Roanoke and its trade territory, with special reference to the adjustment of agricultural production and distribution in Roanoke's trade territory to meet home market demands. J. J. Vernon and H. I. Richards. Mar., 1925.
- 241. Causes of profit or loss on Virginia tobacco farms. J. J. Vernon and M. J. B. Ezekiel. Nov., 1925.
- 242. Experiments with sun-cured tobacco and other crops grown in rotation with it. W. W. Green. Nov., 1925.
- 243. Dried apple pomace compared with dried beet pulp and with corn silage in feeding dairy cows for milk production. C. W. Holdaway. Nov., 1925.
- 244. Honeysuckle eradication in Virginia apple orchards. R. H. Hurt. Jan., 1926.
- 245. Apple disease studies in northern Virginia. F. J. Schneiderhan. Feb., 1926.
- 246. Pastures for hogs reduce the cost of producing pork in eastern Virginia. C. R. Nobles. Feb., 1926.
- 247. Experiments with alfalfa in eastern Virginia. R. P. Cocke. Mar., 1926.
- 248. Codling moth investigations in Virginia. W. S. Hough, L. A. Sfearns, C. R. Willey and L. R. Cagle. Apr., 1926.
- 249. Renting farms in Virginia. C. C. Taylor and J. J. Vernon. May, 1926.
- 250. The relation between dietary habits and health of children in rural sections of Virginia. E. A. Reynolds. Aug., 1926.
- 251. Studies on the potato tuber moth during the winter of 1925-1926. G. W. Underhill. Aug., 1926.
- 252. Red clover experiments. T. K. Wolfe and M. S. Kipps. Dec., 1926.

TECHNICAL BULLETINS

- 28. The comparative value of peanut meal, cotton seed meal and soybean meal as sources of protein for milk production. C. W. Holdaway, W. B. Ellett and W. G. Harris. Feb., 1925.
- 29. Biology and control of Comstock's mealy bug on the umbrella catalpa. W. S. Hough. Feb., 1925.

WASHINGTON AGRICULTURAL EXPERIMENT STATION, PULLMAN

BULLETINS

- 190. The influence of sulfur and gypsum upon the composition and yield of legumes. J. R. Neller. July, 1925.
- 191. (Technical paper.) The Rhizoctonia disease of potatoes. B. F. Dana. Aug., 1925.
- 192. A review of the agriculture of the Big Bend Country. Byron Hunter, George Severance and R. N. Miller. Sept., 1925.
- 193. Studies in apple storage. O. M. Morris. Sept., 1925.
- 194. Co-operation in marketing Washington farm products. E. F. Dummeier. Dec., 1925.
- 195. Some better things in farm life in Washington. F. R. Yoder. Sept., 1925.
- 196. Thirty-fifth annual report for the fiscal year ended June 30, 1925. E. C. Johnson. Dec., 1925.
- 197. Investigations on oil sprays. A. L. Melander, Anthony Spuler and E. L. Green. Feb., 1926.
- 198. Rotation and hogging off experiments with field peas. E. G. Schafer and R. T. Smith. Feb., 1926.
- 199. Poisoned baits for strawberry root weevil. A. L. Melander and Anthony Spuler. Feb., 1926.
- 200. Orchard crowding, its effects and remedies. O. M. Morris and W. A. Luce. Mar., 1926.
- 201. Wheat exporting from the Pacific Northwest. J. B. Watkins. May, 1926.
- 202. Improved method for making cider vinegar. S. C. Vandecaveye. June, 1926.
- 203. Rural social organization in Whitman County. E. A. Taylor and F. R. Yoder. June, 1926.
- 204. An economic study of berry farming in western Washington. N. W. Johnson and George Severance. June, 1926.
- 205. Physical and chemical characteristics of maturing apples as related to time of harvest. J. R. Neller and F. L. Overley. June, 1926.

206. The significance of nitrogen in soil organic matter relationships. F. J. Sievers and H. F. Holtz. July, 1926.
207. Wheat varieties in Washington. E. G. Schafer, E. F. Gaines and O. E. Barbee. Aug., 1926.
208. Thirty-sixth annual report for the fiscal year ended June 30, 1926. E. C. Johnson. Nov., 1926.
209. Irrigated alfalfa in Washington. H. P. Singleton. Nov., 1926.

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131. Rhizoctonia disease of the potato. B. F. Dana. Jan., 1925.
132. Crops for new land on irrigation projects in Washington. H. P. Singleton. Sept., 1925.
133. Washington poultry rations. J. S. Carver and L. W. Cassel. Nov., 1925.
134. Methods of dimming lights for poultry houses. H. L. Garver. Mar., 1926.
135. Farming in the Big Bend Country. W. J. Spillman. Oct., 1926.
136. Developing new land under irrigation. R. P. Bean. Nov., 1926.

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194. Reymann memorial farms. H. G. Knight. Feb., 1925.
195. (Technical.) The standard deviation in the weight of White Leghorn eggs. Horace Atwood. June, 1925.
196. Varietal experiments with soybeans. R. J. Garber, T. E. Odland, T. C. McIlvaine and K. S. Quisenberry. Oct., 1925.
197. The development and inheritance of a defective endosperm in maize. B. L. Wade. July, 1925.
198. (Technical.) A study of the breeding records of a group of Shorthorn cows. C. V. Wilson. Dec., 1925.
199. Varietal experiments and first generation crosses in corn. R. J. Garber, T. E. Odland, K. S. Quisenberry and T. C. McIlvaine. Mar., 1926.
200. Cultural experiments with wheat, oats, and buckwheat. T. E. Odland. Mar., 1926.
201. (Technical.) Some factors affecting the weight of eggs. Horace Atwood. Apr., 1926.
202. (Technical.) Correlated inheritance of quantitative and qualitative characters in oats. K. S. Quisenberry. July, 1926.
203. Fertilization of apple orchards, II. M. J. Dorsey and H. E. Knowlton. Aug., 1926.
204. Cultural experiments with sunflowers and their relative value as a silage crop. T. E. Odland and H. O. Henderson. June, 1926.
205. (Technical.) Tomato late blight and its relation to late blight of potato. Anthony Berg. July, 1926.
206. Farm water supply and sewage disposal in West Virginia. F. D. Cornell, jr. May, 1926.

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372. Inoculation increases yield and quality of peas for canning. A. L. Whiting, E. B. Fred and J. W. Stevens. Jan., 1925.
373. New pages in farm progress (Annual report of the director, 1923-1924). H. L. Russell, F. B. Morrison and W. H. Ebling. Apr., 1925.
374. Wisconsin's opportunity with alfalfa. R. A. Moore and L. F. Graber. Mar., 1925.
375. Soybeans, a good legume crop, borrowed from the Orient. R. A. Moore, E. L. Delwiche and G. M. Briggs. Apr., 1925.
376. Profits from phosphates. A. R. Whitson and Griffith Richards. Apr., 1925.
377. Intensive dairying in New Zealand and Wisconsin. H. L. Russell and Theodore Macklin. May, 1925.
378. Prune the bearing apple tree. R. H. Roberts. Oct., 1925.
379. Making weather to order for the study of grain diseases. J. G. Dickson. Jan. 1926.
380. Marketing Wisconsin foreign cheese by federation. H. H. Bakken. Jan., 1926.
381. Marketing livestock cooperatively. Theodore Macklin and M. A. Schaars. Jan., 1926.
382. Leading commercial varieties of canning peas. E. J. Delwiche and E. J. Renard. Apr., 1926.
383. Fertilizers for special crops. C. J. Chapman and A. R. Whitson. Mar., 1926.

384. Rural community organizations, handbook. J. H. Kolb and A. F. Wileden. June, 1926.
385. Look for the European corn borer. S. B. Fracker and C. L. Fluke. July, 1926.
Also State Department of Agriculture Bul. 75.
386. Cost of filling silos. P. E. McNall and W. A. Hartman. Oct., 1926.
387. Make extension work more effective. M. C. Wilson and W. W. Clark. Nov., 1926.
388. Gleanings from science: Annual report of the director, 1924-1926. H. L. Russell, F. B. Morrison and W. H. Ebling. Dec., 1926.

RESEARCH BULLETINS

61. A study of the principal changes which take place in the making of silage. W. H. Peterson, E. G. Hastings and E. B. Fred. Jan., 1925.
62. Experiments on the control of wildfire of tobacco. James Johnson and H. F. Murwin. Aug., 1925.
63. Transmission of viruses from apparently healthy potatoes. James Johnson. Sept., 1925.
64. Pea disease survey in Wisconsin. F. R. Jones and M. B. Linford. July, 1925.
65. Fertilizer experiments: Methods of application and effect on germination, early growth, hardiness, root growth, lodging, maturity, quality and yield. Emil Truog, H. J. Harper, O. C. Magistad, F. W. Parker and James Sykora. Oct., 1925.
66. Service institutions for town and country. J. H. Kolb. Dec., 1925.
67. Heat coagulation of evaporated milk. H. H. Sommer and E. B. Hart. Mar., 1926.
68. Apple physiology: Growth, composition, and fruiting responses in apple trees. R. H. Roberts. May, 1926.
69. A study of hernia in swine. B. L. Warwick. Sept., 1926.
70. Breeding new varieties of canning peas. E. J. Delwiche and E. J. Renard. Oct., 1926.
71. Wisconsin studies upon the relation of soil temperature to plant disease. L. R. Jones, James Johnson and J. G. Dickson. Nov., 1926.
72. Root nodule bacteria of leguminosae. E. B. Fred, A. L. Whiting and E. G. Hastings. Nov., 1926.
73. Studies of the epidemiology and control of apple scab. G. W. Keitt and L. K. Jones. Dec., 1926.

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140. Further report on the infection of cattle with *B. tuberculosis* (avian). Cecil Elder and A. M. Lee. May, 1925.
141. The micrometer caliper as an instrument for measuring the diameter of wool fibers. R. H. Burns and W. B. Koehler. May, 1925.
142. Tuberculosis of fowls. Cecil Elder and A. M. Lee. June, 1925.
143. Chemical examination of three Delphiniums. O. A. Beath. June, 1925.
144. Lupine studies: II, The silvery lupine. O. A. Beath. Dec., 1925.
145. Wyoming hay for milk production. H. S. Willard. May, 1926.
146. Wyoming forage plants and their chemical composition: Studies no. 7, Effect of altitude, seasonal variation and shading experiments. E. N. Roberts. June, 1926.
147. Range and ranch studies in Wyoming: Beef cattle management. A. F. Vass. June, 1926.
148. (State Farms Bulletin 6.) Wyoming corn for pork. W. L. Quayle. Aug., 1926.

STATE FARMS BULLETINS

5. The service of the state experiment farms. W. L. Quayle. Jan., 1925.
6. (See Wyo. Bul. 148.)

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