BULLETINS

(1888)

1 (The Station; its origin; organization and regulations; fields of investigations; plans for immediate work) 14 pp.


3 Field experiments in cats, 1888; Germination of grass and clover seeds. Morrow and Hunt. 12 pp.

(1889)


7 The biology of ensilage (Burrill). Filed experiments with cats, 1889 (Hunt). 37 pp.

(1890)


10 Investigations of "milk tests." Farrington. 8 pp.


(1891)


14 Milk tests: Methods of testing milk (chemical analysis of "germ meal" and of "cat dust feed"). Farrington. 16 pp.

15 The fruit bark beetle. Forbes. Experiments with grass seeds, and with grasses and clovers.
Morrow and Hunt. Use of fungicides upon the apple, the potato, and the grape. Burrill and McCluer. 28 pp.


18 Dairying experiments. Farrington. 16 pp.

(1892)


23 Experiments with oats, 1892. Morrow and Gardner. 16 pp.

(1893)


27 Some new points in the manipulation of the Babcock milk test. Farrington. 4 pp.


(1894)

30 Blackberries and raspberries, variety tests, and management. McCluer. 12 pp.


32 An acid test of cream. Farrington. 8 pp.

33 The cinch bug in southern Illinois--1894. Forbes. Alkaline tablets for testing the acidity of


35 The Russian thistle in Illinois. Morrow. 4 pp., illus.


(1895)


38 Experiments with the muscardine disease of the chinch bug, and with the trap and barrier method for the destruction of that insect. Forbes. 64 pp.

39 The Russian thistle and some plants that are mistaken for it. Clinton. 32 pp.

40 Potatoes, experiments of 1892-3-4, with statement of some results obtained at other stations. McCluer. Fungous disease of the potato. An experiment to prevent scab and leaf blight of potatoes. Clinton. 28 pp.

(1896)


42 Corn experiments, 1895. Davenport and Fraser. 18 pp.


44 Insect injuries to the seed and root of Indian corn. Forbes. 88 pp.


(1897)


(1898)

47 Broom-corn smut. Clinton. 40 pp., illus.

48 The San Jose scale in Illinois. Forbes. 16 pp.

(1899)
55 Improvement in the chemical composition of the corn kernel. Hopkins. 36 pp.
56 Recent work on the San Jose scale in Illinois. Forbes. 48 pp.

(1900)
57 The smuts of Illinois' agricultural plants. Clinton. 72 pp.
58 Composition and digestibility of corn-fodder and corn stover. Hopkins. 10 pp.

(1901)
61 The farmer's vegetable garden. Lloyd. 16 pp.
63 Seed corn and some standard varieties for Illinois. Shamel. 28 pp.
64 Treatment of oats for smut. Shame. 16 pp.
66 Individual difference in the value of dairy cows. Fraser. 16 pp.

(1902)
68 Important details of spraying. Stubenrauch. 32 pp.
70 Canker of apple trees. Hasslebring. 16 pp.
72 Additional insecticide experiments for the San Jose scale. Forbes. 4 pp.
74 Standard milk and cream. Fraser. 16 pp.
75 Standardization of milk and cream. Erf. 16 pp.
76 Alfalfa on Illinois soil. Hopkins. 40 pp. (Abst. 8 pp.)
77 Bitter rot of apples. Burrill and Blair. 16 pp.
78 Market classes and grades of cattle with suggestions for interpreting market quotations. Mumford. 68 pp.
80 Methods and results of field insecticide work against the San Jose scale, 1899-1902. Forbes. 40 pp.
82 Methods of corn breeding. Hopkins. 16 pp.

(1903)
83 Feeds supplementary to corn for fattening steers. Mumford. 36 pp.
84 Dairy conditions and suggestions for their improvement. Fraser. 56 pp.
87 The structure of the corn kernel and the composition of its different parts. Hopkins, Smith, and East. 36 pp.
88 Soil treatment for wheat in rotation, with special reference to southern Illinois soils. Hopkins. 32 pp. (Abst. 2 pp.)
89 Notes on the insecticide use of the gasoline blast lamp. Forbes. 12 pp. (Abst. 2 pp.)
90 Fattening steers of the various market grades. Mumford. 64 pp.
91 Preventing contamination of milk. Fraser. 32 pp.
92 City milk supply. Fraser. 24 pp.

(1904)
93 Soil treatment for peaty swamp lands, including reference to sand and "alkali" soils. Hopkins. 32 pp.


95 The more important insect injuries to Indian corn. Forbes. 72 pp.

96 The testing of corn for seed. Hume. 20 pp.


(1905)

98 The curculio and the apple. Crandall. 96 pp.


100 Directions for the breeding of corn, including methods for the prevention of in-breeding. Hopkins, Smith, and East. 28 pp.

101 Crops for the silo, cost of filling, and effect of silage on the flavor of milk. Fraser. 20 pp.

102 The construction of silos. Fraser. 44 pp.

103 Comparison of methods of preparing corn and clover hay for fattening steers. Mumford. 56 pp.

104 Field experiments and observations on insects injurious to Indian corn. Forbes. 60 pp. (Abst. 8 pp.)

(1906)

105 The farmer's vegetable garden. Lloyd. 56 pp.


107 Comparative experiments with various insecticides for the San Jose scale. Forbes. 24 pp. (Abst. 3 pp.)

108 Spraying apples for the plum-curculio. Forbes. 24 pp. (Abst. 4 pp.)

109 The location, construction and operation of hog houses. Dietrich. 20 pp.

110 Storage barn, sheds, feed lots and other equipment for feeding experimental cattle in car load lots. Mumford and Good. 24 pp.

111 Maintenance rations for beef breeding cows. Mumford. 20 pp.

(1907)

112 The cottony maple scale in Illinois. Forbes. 26 pp. (Abst. 2 pp.)
113  The shrinkage of ear corn in cribs.  Hume and Center.  20 pp.
114  Spraying for the codling moth.  Lloyd.  56 pp.
115  Soil improvement for the worn hill lands of Illinois.  Hopkins and Readhimer.  16 pp.
119  Type and variability in corn.  Davenport and Rietz.  40 pp.
120  Milk supply of Chicago and twenty-six other cities.  Trueman.  32 pp.

(1908)
121  Variety tests of wheat.  Hume, Center, and Hegnauer.  24 pp.
122  Market classes and grades of horses and mules.  Obrecht.  100 pp.
123  The fertility in Illinois soils.  Hopkins and Pettit.  112 pp.  (Contains general survey soil map of Illinois.)
124  Marketing the muskmelon.  Lloyd.  32 pp.
125  Thirty years of crop rotations on the common prairie soil of Illinois.  Hopkins, Readhimer, and Eckhardt.  36 pp.
126  Distance between hills for corn in the Illinois corn belt.  Hume, Center, and Hegnauer.  20 pp.
127  A study of the factors influencing the improvement of the potato.  East.  84 pp.  (Abst. 4 pp.)
128  Ten generations of corn breeding.  Smith.  124 pp. (Abst. 38 pp.)
129  Market classes and grades of sheep.  Coffey.  64 pp.

(1909)
133  Ear rots of corn.  Burrill and Barrett.  48 pp.
134  The insect pests of clover and alfalfa.  Folson.  88 pp., illus.
135 Bordeaux mixture. Crandall. 98 pp. (Abst. 11 pp.)

136 Methods of seeding oats, drilling and broadcasting. Hume, Center, and Hegnauer. 16 pp.

137 A study of factors influencing the composition of butter. Lee, Hepburn, and Barnhart. 56 pp.

138 Pasteurization as a factor in making butter from cream skimmed on the farm. Lee. 72 pp.

139 Composition of market butter. Lee and Barnhart. 20 pp.

140 Dairy suggestions from European conditions as seen in the British Isles, Holland and Denmark. Fraser and Brand. 64 pp.

141 Relative efficiency of different rations for fleshing horses for market. Obrecht. 40 pp.


(1910)

143 Economy of the round dairy barn. Fraser. 48 pp.

144 Growing tomatoes for early market. Lloyd and Brooks. 48 pp.


146 Alfalfa hay vs. timothy hay, and alfalfa hay vs. bran for dairy cows. Fraser and Hayden. 16 pp.

147 Market classes and grades of meat. Hall. 148 pp. (Abst. 16 pp.)

148 On the measurement of correlation with special reference to some characters of Indian corn. Rietz and Smith. 28 pp. (Abst. 8 pp.)

(1911)

149 Tuberculosis of farm animals. Briscoe and MacNeal. 120 pp. (Abst. 8 pp.)

150 Feeding farm work horses. Obrecht. 32 pp.

151 Some important insects of Illinois shade trees and shrubs. Forbes. 72 pp.

152 Contagious abortion of cows. MacNeal in cooperation with Mumford. 16 pp. (Abst. 4 pp.)

(1912)

153 Comparison of methods of sampling cream for testing. Lee and Hepburn. 32 pp. (Abst. 4 pp.)

154 What is the matter with the elms in Illinois? Forbes. 24 pp.
155 Fertilizer experiments with muskmelons. Lloyd. 44 pp. (Abst. 4 pp.)

156 Insects injurious to stored grains and their ground products. Girault. 30 pp.


159 Balanced vs. unbalanced rations for dairy cows. Fraser and Hayden. 12 pp.


161 Fate of tubercle bacilli outside the animal body. Briscoe. 100 pp. (Abst. 8 pp.)

(1913)

162 Tuberculosis in the University dairy herd. Hayden. 32 pp.

163 The maintenance requirement of swine. Dietrich. 28 pp. (Abst. 4 pp.)

164 Milk required to raise a dairy calf. Fraser and Brand. 24 pp.

165 The element of uncertainty in the interpretation of feeding experiments. Mitchell and Grindley. 124 pp. (Abst. 8 pp.)

(1914)

166 A review of American investigations on fattening lambs. Bull and Emmett. 50 pp. (Abst. 4 pp.)

167 Proportions of shelled corn and alfalfa hay for fattening western lambs. Coffey. 32 pp.

168 A study of the development of growing pigs. Emmett and Grindley with the cooperation of Joseph and Williams. 54 pp. (Abst. 4 pp.)

169 A study of the ash content of growing pigs. Williams and Emmett. 24 pp. (Abst. 4 pp.)


171 A study of the phosphorus content of growing pigs. Williams and Emmett. 28 pp. (Abst. 4 pp.)

172 A study of the digestibility of rations for steers. Mumford, Grindley, Hall, and Emmett with the collaboration of Joseph and Allison. 54 pp. (Abst. 4 pp.)

173 A study of the forms of nitrogen in growing pigs. Joseph. 32 pp. (Abst. 4 pp.)


175 Experiments in onion culture. Lloyd. 28 pp. (Abst. 4 pp.)
176  The use of commercial fertilizers in growing carnations. Dorner, Nuncie, and Nehrling. 24 pp. (Abst. 4 pp.)

(1915)

177  Radium as a fertilizer. Hopkins and Sachs. 16 pp.
179  A biochemical study of nitrogen in certain legumes. Whiting. 76 pp. (Abst. 8 pp.)
180  Observations and experiments on the San Jose scale. Forbes. 20 pp.
183  Prices and shrinkage of farm grains. Burlison and Allyn. 16 pp.

(1916)

185  Field experiments in spraying apple orchards. Under the direction of Blair by Pickett, Watkins, Ruth, Foglesong, and Gunderson. 168 pp. (Abst. 12 pp.)
188  Methods of fertilizing sweet potatoes. Durst. 12 pp.
189  Parasitic rhizoctonias in America. Peltier. 112 pp. (Abst. 4 pp.)

(1917)

196  The use of commercial fertilizers in growing roses. Muncie. 56 pp. (Abst. 4 pp.)

199  Germ content of milk.  I.  As influenced by the factors at the barn.  Prucha and Weeter.  32 pp.

200  Digestion experiments with pigs.  Grindley, Carmichael, and Newlin.  42 pp.  (Abst. 4 pp.)


202  Is symbiosis possible between legume bacteria and non-legume plants?  Burrill and Hansen.  72 pp.  (Abst. 4 pp.)

203  Seed production in apples.  Crandall.  32 pp.  (Abst. 4 pp.)  (1918)

204  Germ content of milk.  II.  As influenced by the utensils.  Prucha, Weeter, and Chambers.  44 pp.


206  Field experiments in spraying apple orchards in 1913 in 1914.  Pickett, Watkins, Ruth, and Gunderson.  84 pp.  (Abst. 4 pp.)


208  Climate of Illinois.  Mosier.  128 pp.  (Abst. 8 pp.)

209  Fertilizing constituents excreted by two-year-old steers.  Grindley, Mumford, Emmett, and Bull.  36 pp.  (Abst. 8 pp.)

210  Field investigations of forage poisoning in cattle and horses.  Rust and Grindley.  16 pp.

211  Apple-bud selection.  Apple seedlings from selected trees.  Crandall.  88 pp.  (Abst. 4 pp.)  (1919)

212  Limestone action on acid soils.  Stewart and Wyatt.  32 pp.

213  Two Illinois rhubarb diseases.  Stevens.  16 pp., illus.


215  A study of the relative reliability of official tests of dairy cows.  Yapp.  20 pp.  (Abst. 4 pp.)


217  An apple canker due to Cytospora.  Stevens.  18 pp.

218  The pruning of winter-injuring peach trees.  Gunderson.  16 pp.


221 Snapdragon rust. Peltier. 16 pp.

222 Field experiments in spraying apple orchards for the control of apple blotch. Gunderson. 28 pp.

223 Carnation stem rot and its control. Peltier. 32 pp.


(1920)

225 Nitrate production in field soils in Illinois. Whiting and Schoonover. 48 pp. (Abst. 4 pp.)

226 Variations in farrow: with special reference to the birth weight of pigs. Carmichael and Rice. 32 pp. (Abst. 4 pp.)


230 Elimination of germs from diary utensils. I. By rinsing. II. By drying in sun and air. Prucha and Harding. 32 pp. (Abst. 4 pp.)

(1921)


233 Sweet clover for nitrate production. Whiting and Richmond. 16 pp.


236 Germ content of milk. III. As influenced by visible dirt. Harding and Prucha. 32 pp. (Abst. 4 pp.)


(1922)
238 Feeding farm work horses and mules. Edmonds and Kammlade. 20 pp.
239 How Greece can produce more food. Hopkins. 40 pp.

(1922)

238 Feeding farm work horses and mules. Edmonds and Kammlade. 20 pp.
239 How Greece can produce more food. Hopkins. 40 pp.

(1923)

241 Comparative expense of mechanical and hand milking. Pearson and Ross. 16 pp.
242 Flag smut of wheat, with special reference to varietal resistance. Tisdale, Dungan and Leighty. 32 pp. (Abst. 4 pp.)
243 Corn varieties for chinch-bug infested areas. Flint and Hackleman. 12 pp.
244 The feed cost of milk and fat production as related to yields. Ross, Hall, and Rhode. 24 pp. (Abst. 4 pp.)
245 Relation between percentage fat content and yield of milk. Gaines and Davidson. 48 pp. (Abst. 8 pp.)
246 Clostridium Botulinum Type C. Graham and Boughton. 34 pp.

(1924)

247 Feeding pigs on pasture. Rice. 28 pp.
248 A modification of the Babcock test for the determination of fat in buttermilk. Tracy and Overman. 8 pp.
249 Calcium cyanide for chinch-bug control. Flint and Balduf. 16 pp.
252 Increasing farm earnings by the use of simple farm accounts. Case and Mosher. 36 pp.
253 The sunflower as a silage crop. Feeding value for dairy cows; composition and digestibility when ensiled at different stage of maturity. Nevens. 44 pp. (Abst. 4 pp.)
254 Elimination of germs from diary utensils. III. Steaming cans over a jet. Prucha and Harding. 8 pp.
255 Corn root, stalk, and ear rot diseases, and their control thru seed selection and breeding. Holbert, Burlison, Koehler, Woodworth, and Dungan. 256 pp. (Abridged edition, 100 pp.)

(1925)

256 Phyllosticta leaf spot, fruit blotch, and canker of the apple: its etiology and control. Guba. 80 pp.


258 Experiments with subsoiling, deep tilling, and subsoil dynamiting. R.S. Smith. 20 pp.

259 The cultivation of corn. Weed control vs. moisture conservation. Wimer and Harland. 24 pp., illus.

260 The soybean crop for fattening western lambs. Kammlade and Mackey. 16 pp., illus.


262 Feeding purebred draft fillies. Edmonds and Crawford. 16 pp.

263 Relation of solids in milk to fat and specific gravity of the milk. Overman, Davidson, and Sanmann. 12 pp.


266 Factors influencing lodging in corn. Koehler, Dungan, and Holbert. 64 pp.

267 Successful threshing ring management. Rauchenstein and Bonnen. 32 pp.

268 The sunflower as a silage crop. Composition and yield at different stages of maturity. Gaines and Nevens. 52 pp.

269 The marketing of milk in the Chicago dairy district. Ross. 84 pp.

270 Measuring the breeding value of dairy sires by the records of their first few advanced registry daughters. Davidson. 24 pp.

271 An experiment in selecting corn for yield by the method of the ear-row breeding plot. Smith and Brunson. 20 pp.

(1926)

272 Rate of milk secretion as affected by advance in lactation and gestation. Gaines and Davidson. 36 pp.

274  Some tests in the culture of peppers. Lloyd. 8 pp.

275  Apple breeding at the University of Illinois. Crandall. 264 pp.


277  Cost of producing field crops in three areas of Illinois, 1913-1922. Rauchenstein and Ross. 32 pp.

278  The growth of white Plymouth Rock chickens. Mitchell, Card, and Hamilton. 64 pp. (Abst. 8 pp.)

279  The toxicity of salt for chickens. Mitchell, Card, and Carman. 24 pp. (Abst. 8 pp.)


282  The energy value of milk as related to composition. Overman and Sanmann. 16 pp., illus.

283  A technical study of the maintenance and fattening of sheep and their utilization of alfalfa hay. Mitchell, Kammlade, and Hamilton. 32 pp. (Abst. 4 pp.)

284  The influence of plant injury and the root rot diseases upon the physical and chemical composition of corn grain. Dungan. 32 pp. (Abst. 4 pp.)

(1927)


286  Fertilizer experiments with greenhouse lettuce and tomatoes. Lloyd. 28 pp.


290  Ross Odorata as a grafting stock for indoor roses. Weinard and Dorner. 12 pp.


292  Soybean hay and sweet-clover pasture for growing purebred draft fillies. Edmonds and Crawford. 16 pp.

293  Adjusting hog production to market demand. Elliott. 68 pp. (Abst. 8 pp.)

Costs of storing corn on the farm. Rickey. 16 pp.


The effects of phosphorus and sulfur fertilizers on flower production of roses and carnations. Weinard and Lehenbauer. 28 pp.


The place of hog production in corn-belt farming. Case and Ross. 36 pp.

(1928)

Growth and senescence in purebred Jersey cows. Davidson. 56 pp.


A study of factors affecting the efficiency and design of farm septic tanks. Lehmann, Kelleher, and Buswell. 44 pp.


Experiments in crossing varieties as a means of improving productiveness in corn. L. H. Smith and Brunson. 16 pp.

Bush lima beans as a market garden crop. Lloyd. 12 pp.


Experiments in the culture and forcing of witloof chicory. Sayre. 24 pp.


Native crabs: their behavior in breeding. Crandall. 28 pp.

Marketing Calhoun county apples. Lloyd and Newell. 52 pp.

The utilization of soft corn in beef cattle feeding. Rusk and Snapp. 28 pp.


317 Relative energy value of alfalfa, clover, and timothy hay for the maintenance of sheep. Mitchell, Kammlade, and Hamilton. 44 pp.


(1929)

319 Fertilizer experiments with truck crops in southern Illinois. Lloyd. 16 pp.


321 Swine type studies. I. Type in swine as related to rate and economy of gain. Carroll, Bull, Rice, Laible and H. S. Smith. 56 pp.

322 Swine type studies. II. Type in swine as related to quality of pork. Bull and Longwell. 96 pp.

323 Swine type studies. III. The energy and protein requirements of growing swine and the utilization of feed energy in growth. Mitchell and Hamilton. 112 pp.

324 Seasonal features of Illinois grain marketing. Norton and Stewart. 48 pp.


328 Summer relations for fattening steers. Snapp and Knox. 16 pp.

329 Organizing the corn-belt farm for profitable production. Case, Wilcox, and Berg. 80 pp.


333 Enzyme activity of ice-cream improvers. Tracy and Ruehe. 28 pp.


336 Quality in celery as related to structure. Sayre. 32 pp.


(1930)


345  Use of honey in ice-cream manufacture. Tracy, Ruehe, and Sanmann. 16 pp.

346  Fertilizing twenty-five kinds of vegetables. Lloyd and Strubinger. 20 pp.


350  Some factors influencing the keeping quality of fruit in transit. Lloyd and Newell. 36 pp.

351  Prices of Illinois farm products from 1866 to 1929. Norton and Wilson. 84 pp.

352  Factors affecting the heat coagulation of homogenized coffee cream. Tracy and Ruehe. 12 pp.


355  Effects of sex, length of feeding period, and a ration of ear-corn silage on the quality of baby beef. Bull, Olson, and Longwell. 72 pp. (Abst. 26 pp.)


357  Experiments in forcing gladioli. Weinard and Decker. 20 pp.


359  New protection against stored-grain insects. Flint and Mohr. 16 pp.

360  A nonacid Babcock method for determining fat in ice cream. Overman and Garrett. 16
361 Breeding two new variables of greenhouse tomatoes resistant to Fusarium wilt. Huelsen and Gillis. 28 pp.


(1931)

364 Fertilizing tomatoes, sweet corn, and muskmelons in a three-year rotation. LLoyd. 20 pp.


374 Management factors that influence farm profits in southwest Illinois. A study based on records from more than a hundred farms in the wheat and dairy area neighboring St. Louis. Wilcox, Crickman, and Trummel. 56 pp.


(1932)


377 Fertilizer experiments with ten market-garden crops in Cook county, Illinois. Spinach, lettuce, beets, peas, beans, tomatoes, peppers, carrots, potatoes, and cauliflower. Lloyd and Lewis. 36 pp.

378 Alfalfa wilt as influenced by soil temperature and soil moisture. Koehler and Jones. 44 pp.
379 Causes of damage to fruits and vegetables during shipment. Lloyd and Newell. 40 pp.


381 Air circulation and temperature conditions in refrigerated carloads of fruit. Newell and Lloyd. 68 pp.


384 Genetics and breeding in the improvement of the soybean. Woodworth. 112 pp.


386 Supply and marketing of soybeans and soybean products. Stewart, Burlison, Norton, and Whalin. 120 pp.

387 How to make honey-cream. A mixture of high-test sweet cream and extracted honey. Tracy. 12 pp.

(1933)

388 Shrinkage of hogs from farm to market by truck and by rail. Ashby. 30 pp.


390 Some important factors affecting costs in hog production. Wilcox, Carroll, and Hormung. 60 pp.

391 Types and varieties of corn for silage. Yield of nutrients; compositions; feeding value for milk production. Nevens. 60 pp.


393 Some effects severity of pruning on growth and production in the concord grape. Colby and Tucker. 32 pp.

394 Sweet clover in Illinois. Sears, Pieper, and Burlison. 56 pp.


(1934)

397  Prices and consumption of milk in specific cities as related to industrial payrolls and other economic factors. Bartlett.  60 pp.


400  Experiments in the use of old soil in growing carnations and roses. Weinard and Decker.  24 pp.

401  Asparagus yields as affected by severity of cutting. Lewis.  12 pp.