

**Publications**  
of the  
**Kansas Agricultural  
Experiment Station**  
**1888 to 2002**

Agricultural Experiment Station  
Kansas State University, Manhattan  
Marc A. Johnson, Director

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# Introduction

This list includes titles for the following categories of publications: Annual Report and Biennial Report, Bulletin (including Press Bulletin), Circular, Inspection Circular, Keeping Up With Research, Report of Progress, Technical Bulletin, and Research Publication.

Circulars, inspection circulars, press bulletins, technical bulletins, and research publications are no longer published. Some annual publications have been issued in two or more categories, as those categories were redefined. Titles of some annual publications also have changed.

Research from each experiment field was published as a separate Report of Progress from 1975-80 and then as a Department Report from 1980-91. The latter series is available from the Department of Agronomy at Kansas State University or from the appropriate experiment fields. Since 1992, research results from all fields have been combined in one Report of Progress.

Names of branch experiment stations have changed through the years. The Garden City and Tribune branch stations were combined to form the Southwest Branch Experiment Station. This name was changed recently to the Southwest Research-Extension Center. The Mound Valley Branch Experiment Station was combined with two other locations to form the Southeast Branch Experiment Station, which is now called the Southeast Agricultural Research Center. The Fort Hays Branch Experiment Station was renamed the Agricultural Research Center-Hays. The Colby Branch Experiment Station was renamed the Northwest Research-Extension Center.

In the Publications/Videos Catalog, bulletins are listed as SB, reports of progress as SRP, and Keeping Up With Research as SRL. Single copies of recent issues of these categories are available from

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Selected publications, current and historical, are available in electronic form. Check the Publications link at <http://www.oznet.ksu.edu/> for Acrobat (PDF) versions of these publications.

## Annual and Biennial Reports

Annual Reports of the Kansas Agricultural Experiment Station—1888 to 1919

Biennial Reports of the Kansas Agricultural Experiment Station—1919-1920 to 1994-1996

## Bulletins

1. Organization, Equipment, and Aims, 1888  
E.M. Shelton, 6 pp.
2. Experience with Cultivated Grasses and  
Clovers, E.M. Shelton, 13 pp.
3. Life-History of Two Orchard Pests,  
E.A. Popenoe, 13 pp.
4. Experiments with Wheat, E.M. Shelton, 6 pp.
5. Sorghum and Sorghum Blight, G.H. Failyer,  
W.A. Kellerman, 10 pp.
6. Silos and Ensilage, 1889, E. M. Shelton, 14 pp.
7. Experiments with Wheat, E. M. Shelton, 11 pp.
8. Preliminary Report on Smut in Oats,  
W.A. Kellerman, W.T. Swingle, 17 pp.
9. Experiment in Pig Feeding, E.M. Shelton,  
H.M. Cottrell, 18 pp.
10. Notes on Conifers for Kansas Planters, 1890,  
E.A. Popenoe, S.C. Mason, F.A. Marlatt, 11 pp.
11. Experiments with Wheat, C.C. Georgeson,  
H.M. Cottrell, W.M. Shelton, 12 pp.
12. Preliminary Experiments with Fungicides for  
Stinking Smut of Wheat,  
W.A. Kellerman, W.T. Swingle, 25 pp.
13. Experiments with Oats, C.C. Georgeson,  
H.M. Cottrell, W.M. Shelton, 28 pp.
14. Winter Protection of Peach Trees and Notes on  
Grapes, E.A. Popenoe, S.C. Mason, F.A.  
Marlatt, 12 pp.
15. Additional Experiments and Observations on  
Oat Smut, 1890, W.A. Kellerman,  
W.T. Swingle, 40 pp.
16. Experiments with Sorghum and Sugar Beets,  
G.H. Failyer, J.T. Willard, 15 pp.
17. Crossed Varieties of Corn, Second and Third  
Years, W.A. Kellerman, W.T. Swingle, 25 pp.
18. Experiments with Forage Plants, C.C.  
Georgeson, H.M. Cottrell, W.M. Shelton, 17 pp.
19. Germination of Weeviled Peas. Garden Notes  
on Potatoes, Beans and Cabbage, E.A.  
Popenoe, S.C. Mason, F.A. Marlatt, 10 pp.
20. Experiments with Wheat, 1891, C.C.  
Georgeson, H.M. Cottrell, W.M. Shelton, 44 pp.
21. 2nd Report of Fungicides for Stinking Smut of  
Wheat, W.A. Kellerman, 27 pp.
22. Smut of Oats; Smut and Rust of Wheat, W.A.  
Kellerman, 21 pp.
23. Smut of Sorghum & Corn, W.A. Kellerman,  
14 pp.
24. Enzootic Cerebritis, or "Staggers" of Horses,  
N.S. Mayo, 11 pp.
25. Sorghum for Sugar, G.H. Failyer, J.T. Willard,  
9 pp.
26. Varieties of the Strawberry, E.A. Popenoe, S.C.  
Mason, 12 pp.
27. Crossed Varieties of Corn, W.A. Kellerman, 20  
pp.

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| 28. | The Experimental Vineyard, 1891, E.A. Popenoe, S.C. Mason, 10 pp.                               | 44. | Further Study of Native Grapes, 1893, E.A. Popenoe, S.C. Mason, 13 pp.  |
| 29. | Experiments with Oats, C.C. Georgeson, F.C. Burtis, W.M. Shelton, 12 pp.                        | 45. | Experiments with Corn, C.C. Georgeson, F.C. Burtis, D.H. Otis, 21 pp.   |
| 30. | Experiments with Corn, C.C. Georgeson, F.C. Burtis, W.M. Shelton, 27 pp.                        | 46. | Rusts of Grain II, 1894, A.S. Hitchcock, C. A. Carleton, 9 pp.  |
| 31. | Sugar Beets, G.H. Failyer, J.T. Willard, 15 pp.   | 47. | Experiments with Wheat Experiments in Feeding Steers III, C.C. Georgeson, F.C. Burtis, D.H. Otis, 22 pp.                                |
| 32. | Feeding Stuffs, and the Development of the Grain Crops. Soybeans, 18 pp.                        | 48. | Six Years' Experience with Ensilage. Some Forage Plants. Renovating a Prairie Pasture, C.C. Georgeson, F.C. Burtis, D.H. Otis, 22 pp.   |
| 33. | Experiments with Wheat, 1892, C.C. Georgeson, F.C. Burtis, W.M. Shelton, 50 pp.                 | 49. | Cattle Poisoning by Nitrate of Potash. Mastitis, 1895, N.S. Mayo, 16 pp.  |
| 34. | Experiments in Feeding Steers, C.C. Georgeson, F.C. Burtis, W.M. Shelton, 52 pp.                | 50. | Kansas Weeds I. Seedlings, A.S. Hitchcock, J.B.S. Norton, 41 pp.  |
| 35. | "Actinomycosis bovis", or "Lumpy Jaw" of Cattle. Some Observations upon Loco, N.S. Mayo, 24 pp. | 51. | Steer Feeding IV. A Comparison between Pure-bred Shorthorns and Scrubs, C.C. Georgeson, F.C. Burtis, D.H. Otis, 39 pp.                  |
| 36. | Experiments with Sorghum and with Sugar Beets, G.H. Failyer, J.T. Willard, 30 pp.               | 52. | Kansas Weeds. Preliminary Circular on Distribution, A.S. Hitchcock, J.B.S. Norton, 17pp. (inc. weed reporting form)                     |
| 37. | Experiments in Potato Culture, E.A. Popenoe, S.C. Mason, F. A. Marlatt, 13 pp.                  | 53. | Pig-feeding Experiments with Corn, Wheat, Kafir-corn, and Cottonseed, C.C. Georgeson, F.C. Burtis, D.H. Otis, 12 pp. Note errata sheet. |
| 38. | Preliminary Report on Rusts of Grain, 1893, A.S. Hitchcock, C. A. Carleton, 19 pp.              | 54. | Experiments with Oats, C.C. Georgeson, F.C. Burtis, D.H. Otis, 11 pp.   |
| 39. | Experiments in Feeding Steers, II, C.C. Georgeson, F.C. Burtis, D.H. Otis, 39 pp.               | 55. | Small Fruits by Irrigation. Culture of Strawberries, S.C. Mason, F.C. Sears, 23 pp.   |
| 40. | Experiments in Wheat, C.C. Georgeson, F.C. Burtis, D.H. Otis, 12 pp.                            | 56. | Experiments with Corn Experiments with Kafir-corn, 1895, C.C. Georgeson, F.C. Burtis, D.H. Otis, 20 pp.                                 |
| 41. | Effect of Fungicides upon the Germination of Corn, A.S. Hitchcock, M.A. Carleton, 17 pp.        | 57. | Kansas Weeds III. Descriptive List, 1896 A.S. Hitchcock, J.B.S. Norton, 64 pp.  |
| 42. | Experiments with Oats, C.C. Georgeson, F.C. Burtis, D.H. Otis, 11 pp.                           |     |   |
| 43. | Experiments with Sorghum and Sugar Beets G.H. Failyer, J.T. Willard, 22 pp.                     |     |   |

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| <p>58. Cornstalk Disease of Cattle, 1896, N.S. Mayo, 24 pp.</p> <p>59. Experiments with Wheat, C.C. Georgeson, F.C. Burtis, D.H. Otis, 17 pp.</p> <p>60. Steer-feeding Experiments, Series V<br/>C.C. Georgeson, F.C. Burtis, D.H. Otis, 40 pp.</p> <p>61. Kafir-corn, Corn and Soybean Meal for Pigs.<br/>Kafir-corn and Cornmeal for Cattle,<br/>C.C. Georgeson, F.C. Burtis, D.H. Otis, 22 pp.</p> <p>62. Corn-smut, A.S. Hitchcock, J.B. Norton, 44 pp.</p> <p>63. Experiments with Oats, C.C. Georgeson,<br/>F.C. Burtis, D.H. Otis, 14 pp.</p> <p>64. Experiments with Corn, 1897, C.C. Georgeson,<br/>F.C. Burtis, D.H. Otis, 20 pp.</p> <p>65. Grafting the Apple, S.C. Mason, I. Jones, 25 pp.</p> <p>66. Kansas Weeds IV. Fruits and Seeds, A.S.<br/>Hitchcock, G.L. Clothier, 36 pp.</p> <p>67. Steer Feeding VI, C.C. Georgeson, F.C. Burtis,<br/>D.H. Otis, 19 pp.</p> <p>68. Soil Moisture, G.H. Failyer, J.T. Willard, 27 pp.</p> <p>69. Some Diseases of Cattle, N.S. Mayo, 32 p.</p> <p>70. Vegetable Growing, S.C. Mason, W.L. Hall, 33 p.</p> <p>71. Experiments with Wheat, C.C. Georgeson,<br/>F.C. Burtis, D.H. Otis, 12 pp.</p> <p>72. Growth of Young Stock, C.C. Georgeson,<br/>F.C. Burtis, D.H. Otis, 6 pp.</p> <p>73. Miscellaneous Fruit Notes, S.C. Mason,<br/>W.L. Hall, 13 pp.</p> <p>74. Experiments with Oats, F.C. Burtis, D.H. Otis,<br/>17 pp.</p> | <p>75. Root Development of Forage Plants, 1897,<br/>C.C. Georgeson, J.E. Payne, 17 pp.</p> <p>76. Fifth Report on Kansas Weeds. Vegetative<br/>Propagation of Perennial Weeds, 1898,<br/>A.S. Hitchcock, G.L. Clothier, 36 pp.</p> <p>77. Some Insects Injurious to the Orchard, E.E.<br/>Faville, P.J. Parrott, 38 p. + 4 p. Calendar</p> <p>78. Sugar Beets, J.T. Willard, 16 pp.</p> <p>79. Bovine Tuberculosis, P. Fischer, 36 pp.</p> <p>80. Kansas Weeds VI. Distribution and Other<br/>Notes, A.S. Hitchcock, G.L. Clothier, 52 pp.</p> <p>81. Feed and Care of the Dairy Cow, 1898,<br/>H.M. Cottrell, F.C. Burtis, D.H. Otis, 38 pp.</p> <p>82. The Potato-stalk Weevil, 1899, E.E. Faville,<br/>P.J. Parrott, 12 pp.</p> <p>83. Sugar Beets, J.T. Willard, G.L. Clothier, 16 pp.</p> <p>84. Cold Storage for Fruit, E.E. Faville, W.L. Hall,<br/>33 pp.</p> <p>85. The Growth of Alfalfa in Kansas, 1899<br/>G.L. Clothier, 16 pp.</p> <p>86. Press Bulletins Nos. 1-34</p> <ol style="list-style-type: none"> <li>1. Wheat Experiments</li> <li>2. Keeping Milk in Hot Weather</li> <li>3. The Fringed-Wing Apple-Bud Moth</li> <li>4. Soil Moisture and Soil Stirring</li> <li>5. Blackleg</li> <li>6. The Sand Plum</li> <li>7. Kaffir Corn for Fattening Pigs</li> <li>8. Some Reasons Why Fruit Does<br/>Not Set</li> <li>9. The Peach Twig-Borer</li> <li>10. Fall Preparation for Alfalfa</li> <li>11. Celery</li> <li>12. The Balanced Ration</li> <li>13. Seed Breeding</li> <li>14. The Fruit-Tree Bark-Beetle</li> </ol> |
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15. Kansas Sugar Beets for 1898
16. Actinomycosis (Lump Jaw, Big Jaw)
17. Hardy Ornamental Shrubs
18. Notes on Weeds
19. The Potato-Stalk Weevil
20. Possibilities in Corn Improvement
21. Winter Protection of Peach Buds
22. Grazing Grasses of Western Kansas
23. The Spring Canker-Worm
24. A New Crop for Kansas Farmers (Soybeans)
25. Alfalfa Hay for Fattening Hogs
26. *Taenia fimbriata* (Fringed Tape-Worm)
27. Sugar Beet Experiments for 1899
28. Treatment of Winter-Injured Trees
29. Milking Scrub Cows
30. Lice on Animals
31. Potato Scab
32. Blackleg (A) Prevention
33. Blackleg (B) Treatment--Prevention
34. Get Ready for the Drouth
87. Native Agricultural Grasses of Kansas, 1899, A.S. Hitchcock, G.L. Clothier, 29 pp.
88. Keeping Milk in Summer, H.M. Cottrell, F.C. Burtis, D.H. Otis, 6 pp.
89. Soil Moisture, J.T. Willard, R.W. Clothier, 22 pp.
90. Alfalfa in Eastern Kansas, 1900, H.M. Cottrell, D.H. Otis, J. G. Haney, 4 pp.
91. Swine-Plague, P. Fischer, 14 pp.
92. A New Drought-resisting Crop. Soybeans, H.M. Cottrell, D.H. Otis, J. G. Haney, 10 pp.
93. Kafir-corn, H.M. Cottrell, D.H. Otis, J. G. Haney, 20 pp.
94. Sugar Beets, 1899. J.T. Willard, R.W. Clothier, 7 pp.
95. Fattening Hogs with Drought-resisting Crops, H.M. Cottrell, D.H. Otis, J. G. Haney, 27 pp.
96. Soil Inoculation for Soybeans, 1900, H.M. Cottrell, D.H. Otis, J. G. Haney, 20 pp.
97. Skim-milk Calves, H.M. Cottrell, D.H. Otis, J. G. Haney, 16 pp.
98. Some Scale-insects upon Kansas Grasses, E. A. Popenoe, P.J. Parrott, 26 pp.
99. Press Bulletins Nos. 35-70
  35. Dysentery in Calves and Other Young Animals
  36. Experiments with Swine-Plague or Hog-Cholera
  37. Kafir-corn, Alfalfa Hay and Soybeans for Pork
  38. What is a Digestion Experiment?
  39. Skim-milk Calves
  40. Orchard Cultivation
  41. A Digestion Experiment with Alfalfa Hay
  42. To Rid the House of Flies
  43. Selection of Seed Wheat
  44. The Profitable Strawberry Bed
  45. Early Plowing and Moisture Conservation
  46. Soybeans
  47. Awnless Brome-grass
  48. The Kansas Experiment Station
  49. A Horn-fly Trap Experiment
  50. Infectious Abortion in Cattle
  51. Alfalfa in Eastern Kansas
  52. Some Nitrogenous Forage-Plants
  53. Experiments with Sugar Beets in 1899 and 1900
  54. Kafir-corn
  55. Plant Breeding by Bud Selection
  56. Digestion Experiments with Kafir-corn Stover and Kafir-corn Meal
  57. Protective Inoculation against Blackleg in Cattle
  58. Questions about Forage Plants
  59. How to Test the Vitality of Garden Seeds
  60. Gophers and Crab-grass versus Alfalfa
  61. Salsify, or Oyster Plant
  62. Tame Grasses for Kansas

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| <p>63. <i>Bromus inermis</i><br/>         64. Prevention of Grain Smuts<br/>         65. Horn-fly Remedies<br/>         66. Causes of Failure in Spraying<br/>         67. The Cultivated Catalpas<br/>         68. The Buffalo Tree-Hopper<br/>         69. The Cultivated Millets<br/>         70. Botanical Notes on Wheat and Spelt</p> <p>100. Soybeans in Kansas in 1900, H.M. Cottrell, D.H. Otis, J. G. Haney, 53 pp.</p> <p>101. Notes from the Plum Orchard, 1901, E.A. Popenoe, A. Dickens, 44 pp.</p> <p>102. Forage Plants for Kansas, A.S. Hitchcock, J.M. Westgate, 58 pp.</p> <p>103. Digestion Experiments with Kansas Feeds. Sugar Beets in Kansas 1891 to 1900, J.T. Willard, R.W. Clothier, 34 pp.</p> <p>104. Fall Seeding of Alfalfa, H.M. Cottrell, 6 pp.</p> <p>105. Blackleg in Kansas, P. Fischer, A. Kinsley, 23 p.</p> <p>106. The Experimental Apple Orchard, 1902, A. Dickens, G. O. Greene, 27 pp.</p> <p>107. Analysis of Corn, with Reference to Its Improvement, J.T. Willard, R.W. Clothier, F.C. Weber, 42 pp.</p> <p>108. The Hardy Catalpa, H.F. Roberts, 82 pp.</p> <p>109. Spontaneous Combustion of Alfalfa, H.M. Cottrell 6 pp.</p> <p>110. Grapes, A. Dickens, G. O. Greene, 30 pp.</p> <p>111. Quality in Beef, H.M. Cottrell, 24 pp.</p> <p>112. Fattening Steers without Hogs to Follow, H.M. Cottrell, J.G. Haney, 12 pp.</p> <p>113. Baby Beef, H.M. Cottrell, J.G. Haney, O.H. Elling, 11 pp.</p> | <p>114. Growing Alfalfa in Kansas, H.M. Cottrell, 43 p.</p> <p>115. The Exact Calculations of Balanced Rations, J.T. Willard, 50 pp.</p> <p>116. Destroying Prairie-dogs and Pocket-gophers, 1903, D.E. Lantz, 20 pp.</p> <p>117. Bacteria of the Soil, N.S. Mayo, A.T. Kinsley, 19 pp.</p> <p>118. Flesh and Fat in Beef, D.H. Otis, 28 pp.</p> <p>119. Press Bulletins Nos. 71-124<br/>         71. Experience in Soiling and Pasturing Cows, 1899<br/>         72. Fattening Steers without Hogs<br/>         73. Cultivated Blue-grasses<br/>         74. Some Interesting Climbers for the Veranda<br/>         75. The Races of Corn<br/>         76. Sugar Beets in Kansas, 1900<br/>         77. Honeysuckles at the Kansas Station<br/>         78. Johnson Grass<br/>         79. A Digestion Experiment with Buffalo-grass Hay<br/>         80. Notes on Plums<br/>         81. Soybeans in Kansas in 1900<br/>         82. Disking Alfalfa<br/>         83. Clovers<br/>         84. Tests of Soybeans by Kansas Farmers in 1900<br/>         85. Roots for Kansas Farmers<br/>         86. Kafir-corn versus Good Butter<br/>         87. When to Cut Alfalfa<br/>         88. Condimental Stock Food for Dairy Cows<br/>         89. Shelled Corn Compared with Corn Chop for Young Calves<br/>         90. Dried Blood as a Tonic for Young Calves<br/>         91. The Clover-hay Worm<br/>         92. Cow-peas as a Second Crop<br/>         93. Baby Beef<br/>         94. Three Ways of Feeding Milk to Calves<br/>         95. Skim-milk Calves in the Feed-lot<br/>         96. Feeding Wheat</p> |
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| <p>97. Inquiries Concerning Prairie-dogs and Gophers</p> <p>98. What Shall We Feed?</p> <p>99. Fall Seeding of Alfalfa</p> <p>100. Sorghum Pasture for Dairy Cows</p> <p>101. The Hessian Fly</p> <p>102. Maintenance Ration for Cattle</p> <p>103. Grain Weevils</p> <p>104. Cattle Distemper</p> <p>105. Sore Mouth of Cattle</p> <p>106. Profit in Maintaining the Milk Flow</p> <p>107. Cerebritis or "Staggers" in Horses</p> <p>108. Destroying Prairie-dogs--A Preliminary Report</p> <p>109. Destroying Pocket-gophers</p> <p>110. Corn Improvement</p> <p>111. Onion Notes</p> <p>112. Pneumonia in Cattle</p> <p>113. Pasture Weeds--Their Prevention and Eradication</p> <p>114. Whole Kafir-corn Compared with Ground Kafir-corn for Young Calves</p> <p>115. Contagious Sore Eyes in Cattle</p> <p>116. Glanders and Farcy</p> <p>117. Ergotism</p> <p>118. Scab or Itch in Cattle</p> <p>119. Poison for Prairie-dogs and Pocket-gophers</p> <p>120. Better Bred Grain and Corn for Kansas</p> <p>121. Fistulous Withers and Poll-evil</p> <p>122. Pasture for Hogs</p> <p>123. A Test of Hand Separators</p> <p>124. Late Crops</p> <p>120. Tests of Forest Trees, 1904, A. Dickens, G. O. Greene, 47 pp.</p> <p>121. Treatment and Utilization of Flood-damaged Lands, A.M. Ten Eyck, 30 pp.</p> <p>122. Blackleg and Vaccination, N.S. Mayo, C.L. Barnes, 16 pp.</p> <p>123. Crop Experiments in 1903, A.M. Ten Eyck, V.M. Shoesmith, 67 pp.</p> <p>124. Experiments in Feeding Steers and in Breeding and Feeding Pigs, D.H. Otis, 57 pp.</p> | <p>125. Experiments with Dairy Cows, 1904, D.H. Otis, 103 pp.</p> <p>126. Experiments with Hand-fed Calves, D.H. Otis, 36 pp.</p> <p>127. The Roots of Plants A.M. Ten Eyck, 55 pp.</p> <p>128. Experiments at the Fort Hays Branch Station, J.G. Haney, O.H. Elling, 78 pp.</p> <p>129. Kansas Mammals in Their Relation to Agriculture, D.E. Lantz, 72 pp.</p> <p>130. Steer-Feeding Experiment, VII-1903-1904, O. Erf, R.J. Kinzer, G.C. Wheeler, 7 pp.</p> <p>131. Care of Dairy Utensils, 1905, O. Erf, C.W. Melick, 12 pp.</p> <p>132. Western Feeds for Beef Production 1906, J.G. Haney, O.H. Elling, G.K. Helder, 32 pp.</p> <p>133. Alfalfa Seed Its Alduterants, Substitutes and Impurities and Their Detection, 1906, J.G. Haney, O.H. Elling, G.K. Helder, 32 pp.</p> <p>134. The Alfalfa Seed-crop and Seeding Alfalfa, A.M. Ten Eyck, 19 p.</p> <p>135. Grading Cream, O. Erf, 12 p.</p> <p>136. Press Bulletins Nos. 125-151</p> <p>125. Meadow Fescue</p> <p>126. Corn Ensilage for Steers</p> <p>127. Rabies, or Hydrophobia</p> <p>128. Preventive Work against the Hessian Fly</p> <p>129. <i>Bromus Inermis</i></p> <p>130. Poison for Prairie-Dogs and Other Rodents</p> <p>131. Warbles or Grubs in Cattle</p> <p>132. The Common Garden Mole</p> <p>133. Grasshopper Poisons</p> <p>134. Baby Beef</p> <p>135. Ring-Bone and Spavin</p> <p>136. Contagious Abortion in Cattle</p> <p>137. Some Troubles of Swine</p> |
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| 138. | Testing Seed-corn for Vitality   | 147. | Indian Corn   |
| 139. | Garget (Congestion of the Udder)   | 148. | Law Regulating the Sale of Commercial Fertilizers                             |
| 140. | Kansas Experiment Station Egg-Laying Contest   | 149. | Prevention of Sorghum and Kafir-corn Smut                                     |
| 141. | Swine Feeding Test with Sorghum-seed Meal, Kafir-corn Meal, Soybean Meal and Corn-meal                                   | 150. | The Hen's Place on the Farm, 78 pp.   |
| 142. | Summer Pruning   | 151. | Alfalfa Breeding  |
| 143. | Preparing Fruits for Exhibition  | 152. | The Pocket Gopher   |
| 144. | The Garden Web-Worm  | 153. | Deterioration of Red Texas Oats in Kansas                                     |
| 145. | A Shade-Tree Pest: The Fall Web-Worm   | 154. | The Mound-building Prairie Ant  |
| 146. | Testing Winter Wheat Varieties for Western Kansas  | 155. | Alfalfa   |
| 147. | Kansas Experiment Station Egg-Laying Contest   | 156. | The Yellow Berry Problem in Kansas Hard Winter Wheats                         |
| 148. | A Troublesome Parasite of the Horse  | 157. | Studies on Hog Cholera and Preventative Treatment                             |
| 149. | Swine Feeding Tests--Armour's Deodorized Meat Meal and Alfalfa Hay as Supplementary Feeds to Corn                        | 158. | Analyses of Registered Feeding Stuffs   |
| 150. | The San Jose Scale in Kansas   | 159. | Analyses of Eggs  |
| 151. | Baby Beef Production with Western Feeds  | 160. | Cow-peas  |
| 137. | Variations in the Test of Separator Cream  | 161. | The Influence of Depth of Cultivation upon Soil Bacteria and Their Activities |
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| 569. | Beef Cattle Feeding Investigations. Fort Hays Branch Roundup Report 60, April 27, 1973, 44 pp.                       | 587. | Labor Requirements for Eastern Kansas Crops  |
| 570. | The Impact of Migration on Kansas  | 588. | Vertical Coordination Alternatives in the Kansas Swine Industry  |
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| 574. | 1973 Kansas Winter Wheat Performance Tests   | 592. | Irrigating Grain Sorghum   |
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|      |  | 597. | Not used   |

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| 612. | Information Programs by Kansas Farmer Cooperatives                        | 631. | Infant Mortality  |
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636. The Colby Branch Experiment Station and Agriculture in Northwest Kansas, with Special Mention of Soils
637. Availability and Cost of Nursing Home Services in Kansas
638. Growing Cattle on Grass (638R 1982)
639. Hot Processing. Economic Feasibility of Hot Processing Beef Carcasses
640. Dairy Farm Hot Water. An Economic Evaluation of Solar Collectors vs. Heat Exchangers
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1. Treating Seed Corn to Protect It from Burrowing Animals, 1909 4 p.
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3. Improved Seed Wheat, 12 p.
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26. Navel Ill, 3 p.
27. Capons for Kansas, 14 p., photosts
28. Sorghum Crops for Silage, 6 p.
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35. Report of the Dickinson County Cow Testing Association, 1914, 8 p.
36. Preparation of Exhibits for Fairs & Contests, 8 p.
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42. Which Stallion and Why?, 5 p.
43. The Pocket Gopher, 4 p.

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| 218. Pruning Fruit Trees, 1944, 24 p.  | 241. Publication List (list only)  |
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| 220. Diseases of Feeder Cattle, 16 p.  | 243. Newcastle Disease   |
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| 226. Buffalo Alfalfa, 1945, 7 p. color photo                                 | 249. Preserving Foods by Freezing  |
| 227. List of Publications (list only), 1945, 4 p.                            | 250. 36th Annual Livestock Feeders Day   |
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| 231. Kansas Rural Institutions I. Fort Hays Branch Experiment Station, 18 p. | 254. Producing and Marketing Eggs in the Wichita Area                                      |
| 232. Publication List (list only), 1945, 4 p.                                | 255. Control of Noxious Perennial Grasses with the Trichloracetates                        |
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| 234. The Elm Calligrapha   |  |
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| 271. | Beef Cattle Feeding and Grazing Investigations for 1946-47  | 291. | Insect Fragment Problem in the Milling Industry  |
| 272. | Beef Cattle Feeding and Grazing Investigations for 1949-50  | 292. | Beef Cattle Breeding and Feeding. Fort Hays Branch Experiment Station. Roundup Report 39 |
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| 300. | Kansas Rural Institutions IX. Country Weekly  | 322. | Beef Cattle Feeding Investigations, 1954-55                          |
| 301. | Kansas Cooperatives II  | 323. | Crops and Soils Field Day Report                                     |
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| 312. | Kansas Rural Institutions X. Banks  | 334. | Beef Cattle Feeding Investigations, 1955-56                          |
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| 314. | Experiment Station Results. Fall Seeded Wheat,<br>Barley, Oats  | 336. | Major Soils of Kansas  |
| 315. | Fall Field Day Report. Fort Hays Branch Experi-<br>ment Station                                       | 337. | Kansas Farmer Cooperatives III. Financing                            |
| 316. | Publications List (list only) 1/55  | 338. | List of Available Publications (list only)                           |
| 317. | Growing Strawberries in Kansas (Rev. 2/57)  | 339. | House Plants. Their Selection and Care 1/57                          |
| 318. | How to Reduce Dust Storms   | 340. | Kansas Rural Institutions XII. A County-wide<br>Library Service 9/56 |

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| 341. | Trends in Land Values in Kansas 8/56  | 360. | Weed Control in Sorghum 5/58  |
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| 343. | 1956 Experiment Station Results with Fall Seeded Wheat, Barley and Oats           | 362. | Kansas Rural Institutions XIV. Humboldt 4-H Club                                |
| 344. | Cleaning and Sanitizing Bulk Milk Tanks on Farms 11/56                            | 363. | 1958-59 Beef Cattle Feeding Investigations, Fort Hays Branch Experiment Station |
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| 353. | Advertising and Promotion of Wheat and Other Foods 2/58                           | 372. | Irrigation Farming for Profit 7/59  |
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| 356. | Grain Sorghums Storage and Utilization in Dairy Cattle Feeding 11/57              | 375. | The Case for Merging Coops 12/59  |
| 357. | Functional Finishes Used on Clothing Fabrics 5/58 (rev. 3/59)                     | 376. | What about Incorporating Farms in Kansas 1/60                                   |
| 358. | 48th Annual Livestock Feeders' Day, 1957-58 5/58                                  | 377. | 47th Annual Roundup Report. Fort Hays Branch Experiment Station 4/60            |
| 359. | Beef Cattle Feeding Investigations, 1957-58                                       | 378. | 47th Livestock Feeders' Day 3/60  |
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| 380. | Johnsongrass in Kansas 9/60  | 396. | Preparing a Research Manuscript 12/67                         |
| 381. | Cody Alfalfa 3/61  | 397. | Efficient Distribution of Petroleum Products to Farms 8/71    |
| 382. | 48th Annual Roundup Report. Fort Hays Branch Experiment Station                        | 398. | Beef Color Standards  |
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| 384. | Kansas Laws for Farm Landlords and Tenants 5/62  | 400. | Woodstalk. A Guide to Trees at KSU                            |
| 385. | Controlling Elm Calligrapha Beetles 8/62 (rev. 1970)                                   | 401. | Foliage Plants. Their Selection and Care for Interior Designs |
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| 389. | Crimson Sweet. A New Disease-Resistant Watermelon 4/63                                 | 405. | Research Needs in Meats, 1977 to 2000 A.D.                    |
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| 3. Analyses of Inspection Samples of Fertilizers, 1915-1916           | 13. Kansas State Live Stock Registry Board                               |
| 4. Analyses of Inspection Samples of Fertilizers, Fall 1916           | 14. The Enforcement of the Kansas Feedingstuffs Law                      |
| 5. Feed Registration under the Kansas Feedingstuffs Law               | 15. State Live Stock Registry Board                                      |
| 6. Kansas State Live Stock Registry Board                             | 16. Fertilizer Control in 1920   |
| 7. Analyses of Inspection Samples of Fertilizers, 1917                | 17. The Enforcement of the Kansas Live Stock Remedy Law                  |
| 8. Kansas State Live Stock Registry Board                             | 18. Fertilizer Control in 1921   |
| 9. The Permit System of Cream Buying                                  | 19. The Enforcement of the Kansas Feedingstuffs Law                      |
| 10. Fertilizer Control in 1918  | 20. List of Stallions Licensed from January 1, 1922 to December 31, 1922 |

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1. Report of 1973 Herbicide Data
2. Controlling Johnsongrass in Soybeans
3. Herbicides for Weeds in Soybeans
4. Soil Tillage Effects on Soil Moisture and Grain Sorghum Yield
5. Controlling Velvetleaf in Soybeans with Basagran
6. Forage from Small Grain Crops
7. Controlling Wheat-Streak Mosaic
8. Bermudagrass Varieties in Southeastern Kansas
9. 1974 Soybean Herbicide Performance in Southeastern Kansas
10. Creep Feeding Fall Calves on Fescue Pasture
11. Roughage Sources for Growing Heifers Evaluated
12. Feeding Holstein Bulls and Steers for Beef Production
13. Continuous and Interrupted, Supplemental Protein Feeding Compared
14. Two Ways to Fight Alfalfa Weevils
15. Report of 1974 Herbicide Data
16. How Planting Date and Maturing Time Influence Losses of Irrigated Corn to Southwestern Corn Borers
17. Irrigating Corn and Grain Sorghum with Limited Water
18. Irrigating Soybeans with Limited Water
19. Irrigating Corn in Extreme West-Central Kansas
20. Effect of Mud on the Market Value of Slaughter Cattle
21. Killing Unwanted Trees with Tordon 101 Mixture
22. Report of 1975 Herbicide Data
23. Graze First-Year Native Grass Plantings
24. Legume Rotations-Crop Yields and Nitrogen Fixation
25. Controlling Weeds in Wheat Stubble in Extreme Western Kansas
26. Controlling Soilborne Wheat Mosaic
27. Summer Injection of 2,4-D and Tordon Herbicides to Control Unwanted Trees in Kansas Woodlands
28. Seasonal Pasture for Ewes in Northwestern Kansas
29. Report of 1976 Herbicide Data
30. An Easy Method of Estimating Potential Evapotranspiration
31. Effect of Soil Moisture Depletion on Soybeans
32. Evapotranspiration from Corn, Sorghum, Soybean, and Winter Wheat
33. Two-year Test Results Suggest Caution with Dinoseb as a Yield Stimulant for Corn or Grain Sorghum
34. Effect of Soil-moisture Depletion on Corn Production

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| 36. Flowering Crabapple Evaluations, 1972-77  | 55. Tillage and No-preplant Tillage Compared for Grain Sorghum and Soybean                            |
| 37. Managing Southwestern Corn Borer Populations in Irrigated Kansas Corn                     | 56. Chinch Bug Resistance in Commercial Grain and Forage Sorghum Hybrids                              |
| 38. Residual Effects of Phosphorus on Dryland Grain Sorghum (Milo)                            | 57. Insecticides Applied at Planting Time or as Foliar Sprays to Control Chinch Bugs on Grain Sorghum |
| 39. Limited Irrigation of Grain Sorghum   | 58. Yield and Water Use of Alfalfa  |
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| 43. Data Needs of Kansas Park and Recreation Agency Administrators                            | 62. High Population, Narrow Row Dryland Sorghum for Southwest Kansas                                  |
| 44. Overseeding Bermudagrass to Cool-season Grasses   | 63. Selecting Sorghum Hybrids for the Wheat Sorghum Fallow System in Southwest Kansas                 |
| 45. Using a Programmable Calculator to Schedule Irrigation                                    | 64. Production by Crossbred Ewes (Finn-Dorset x Rambouillet) in Northwestern Kansas                   |
| 46. Nematicide Treatment of Corn in Western Kansas  | 65. Herbicides for Use on High pH Soils in the Wheat Fallow System in Southwest Kansas                |
| 47. How Nitrification Inhibitors Perform in Kansas  | 66. Wheat in Lamb Rations   |
| 48. Performance Tests of Red Clover Varieties in Eastern Kansas                               | 67. Efficient Storage of Soil Moisture with the Wheat-Sorghum-Fallow System                           |
| 49. Try Some “Super Thick” Sorghum  | 68. Response of Soybean Varieties to Different Planting Dates in Southeastern Kansas                  |
| 50. Fescue Turfgrasses  | 69. Reduced Tillage Cropping Systems for Southwest Kansas   |
| 51. How Burning and Other Methods of Removing Irrigated Crop Residues Affect Yields and Soils | 70. Proso Millet as a Crop Alternative  |
| 52. Perennial Ryegrass for Turf in Kansas   |   |
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| 71. Pale Western Cutworm Control on Wheat  | 89. Competition and Control of Annual Bromes in Winter Wheat                                     |
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| 73. Soil Wetting Agents  |  |
| 74. Effect of Seed Size and Density on Winter Wheat Performance (74R 6/84)                       | 91. Lifetime Production Performance by Suffolk x Rambouillet Ewes in Northwestern Kansas         |
| 75. Greenbug Control on Grain Sorghum  | 92. Field Evaluation of Insecticides for Control of Alfalfa Weevil Larvae                        |
| 76. Research on Wheat-Sorghum-Fallow in Western Kansas   | 93. Use-Value Appraisal of Farmland  |
| 77. Pearl Millet: A Potential Crop for Kansas  | 94. Continuous Cropping of Dryland Grain Sorghum   |
| 78. Residual Herbicides for Use in the Wheat-Fallow System 6/84                                  | 95. Insecticides for Control of Sunflower Moth Larvae on Sunflower                               |
| 79. Effectiveness of Paraquat as Influenced by Carrier Volume and Climatic Conditions 6/84       | 96. Raw Soybeans in the Diets of Sheet   |
| 80. Control of Winter Annual Grasses in South Central Kansas 6/84                                | 97. Corn-Soybean Cropping Sequences in the Kansas River Valley                                   |
| 81. Soybeans Tolerant of Iron Chlorosis 12/84  | 98. Field Evaluations of Selected Insecticides to Control Russian Wheat Aphid on Winter Wheat    |
| 82. Predicting Pecan Nut Casebearer Activity in Southeast Kansas 10/84                           | 99. Pinching Poinsettia Cultivars  |
| 83. Phosphorus and Potassium Fertilization of Irrigated Alfalfa 12/84                            | 100. Economic Evaluation of Season-Long and Intensive-Early Stocking Systems 2/90                |
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| 87. Fall Application of Herbicides for Musk Thistle Control                                      | 104. Symptom Response of Sorghum Hybrids Infected by Sugarcane Mosaic Virus Strain MDMV-B 12/92  |
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4. Farm Incomes and Living Costs for 229 Kansas Farm and Home Management Association Families, 1948
5. Farm Incomes and Living Costs for 203 Kansas Farm and Home Management Association Families, 1949
6. Preliminary Study of the Influence of Certain Commercial and Laboratory Preservatives on the Deterioration of Damp Sorghum Grain and Alfalfa Hay
7. Farm Incomes and Living Costs for 316 Kansas Farm and Home Management Association Families, 1950
8. Spray Schedules Recommended for 1952
9. Spray Schedules Recommended for 1953
10. Farm Incomes and Living Costs for 320 Kansas Farm and Home Management Association Families, 1951
11. Farm Incomes and Living Costs for 278 Kansas Farm and Home Management Association Families, 1952
12. Commercial Fruit Spray Schedule
13. Income and Living Costs for 177 Kansas Farm and Home Management Association Families
14. Experiment Results with Varieties of Sorghums, Sudan Grass, Soybeans, Oats and Spring Barley
15. Preliminary Kansas Corn Performance Tests, 1955
16. Experiment Station Results with Varieties of Spring Oats and Spring Barley
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18. Experiment Station Results with Varieties of Spring Oats and Spring Barley
19. Kansas Corn Performance Tests, 1956
20. 1956 Experiment Station Results with Varieties and Hybrids of Grain and Forage Sorghum and Soybeans
21. 1957 Experiment Station Results with Varieties of Spring Oats and Spring Barley
22. Partial Report on Retirement Plans and Security of Sixty Farm Families
23. 1957 Experiment Station Results with Sorghum Varieties and Hybrids and Varieties of Sudangrass and Soybeans
24. A Study of the Productivity of Selected Soils in Western Kansas
25. Grading Kansas and Other Extracted Honeys
26. 1958 Experiment Station Results with Varieties of Spring Oats and Spring Barley
27. Horticultural Investigations on Vegetable and Fruit Crops
28. Investigations on Watermelons, Muskmelons, Cucumbers, Pumpkin and Squash
29. Investigations on Tomatoes, Sweet Potatoes, Sweet Corn and Miscellaneous Vegetable Crops
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31. 1958 Experiment Station Results with Sorghum Varieties and Hybrids and Varieties of Sudangrass and Soybeans

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| 32. Garden City Spring Field Day Report  | 51. Report of Progress on Fertility Studies. Colby Branch Experiment Station  |
| 33. Garden City Fall Field Day Report  | 52. Research Results, 1960. Colby Branch Experiment Station   |
| 34. 1959 Experiment Station Results with Varieties of Spring Oats and Spring Barley                    | 53. Spring Field Day, 1961. Garden City Branch Experiment Station   |
| 35. Vegetable Investigations   | 54. Research Notes on Certain Species of Alfalfa Insects at Manhattan (1904-1956) and at Ft. Hays (1943-1953)             |
| 36. Vine Crop Investigations   | 55. Vegetable Investigations  |
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| 38. Garden City Fall Field Day Report  | 57. Silo Unloaders for Horizontal Silos   |
| 39. 1959 Progress Report, Soil Fertility Work (Garden City) Dryland Soil Management                    | 58. Turfgrass Herbicides  |
| 40. Kansas Forage Performance Tests under Irrigation, 1959   | 59. Kansas Garden Chrysanthemum Trials  |
| 41. Spring Field Day, 1960. Colby Branch Experiment Station  | 60. 1961 Experiment Station Results with Soybeans, Forage Sorghums, Sudangrass, Millet, Popcorn, and Castorbean Varieties |
| 42. Performance of Grass and Legume Varieties in Northeastern Kansas                                   | 61. Forage Crops  |
| 43. Fall Field Day, 1960. Garden City Branch Experiment Station  | 62. Plant Science Laboratory "Phytobiolab" Growth Chambers  |
| 44. Propagating Junipers by Cutting-graft  | 63. Garden City Spring Field Day  |
| 45. 1960 Results Spring Oats and Spring Barley   | 64. 1961 Research Results for Fall Field Day. Colby Branch Experiment Station   |
| 46. Vegetable Investigations   | 65. LP-Gas Flaming in Crop Production   |
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| 50. An Automatic Feed Weigher  |   |

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| 106. | 1964 Experiment Station Results with Varieties of Soybeans, Sudangrass and Hybrids, Safflower and Castorbeans                   | 121. | 1966 Report of Crops and Soils Investigations. Mound Valley Experiment Field   |
| 107. | Soil Fertility Investigations in Southwest Kansas. Garden City Branch Experiment Station  | 122. | 33rd Lamb Feeders' Day. Garden City Branch Experiment Station  |
| 108. | 1964 Research Results. Colby Branch Experiment Station  | 123. | Recommended Varieties of Annual Flowers for Kansas   |
| 109. | Response of Grain Sorghum Hybrids of Varying Maturity to Planting Date  | 124. | Crops and Soils. Southeast Kansas Branch Experiment Station  |
| 110. | 1965 Experiment Station Results with Small Grain Varieties. Winter Wheat, Winter Barley, Winter Oats                            | 125. | Colby Sheep Experiments, 1967  |
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| 117. | 1966 Spring Field Day. Garden City Branch Experiment Station  | 132. | Preliminary Results of Weed Control in Horticulture and Forestry Plants  |
| 118. | 1966 Report of Research Results. Colby Branch Experiment Station  | 133. | Colby Sheep Experiments, 1968  |
| 119. | How to Determine Relative Profitability in Selected Enterprises on Irrigated, Western Kansas Land                               | 134. | 1968 Report on Miscellaneous Experiment Station Tests with Spring-Planted Field Crops. Soybeans, Corn, Grain Sorghum Forage Sorghum, Sudangrass, Sugar Beets |
| 120. | 1966 Experiment Station Results with Small Grain Varieties. Winter Wheat, Winter Barley, Winter Rye, Spring Barley, Spring Oats | 135. | 1968 Report of Vegetable Crop Investigations in Southwestern Kansas  |

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| 141. | Animal Science Progress Report for 1968 (SEK)  | 158. | Colby Sheep Experiments, 1970  |
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| 147. | 1969 Report of Research Results. Colby Branch Experiment Station   | 164. | 1970 Report on Experiment Station Variety Tests with Fall-Planted Small Grains. Winter Wheat, Winter Barley, Winter Oats, Winter Rye, and Winter Triticale |
| 148. | 1969 Report on Miscellaneous Experiment Station Tests with Spring-Planted Field Crops, Soybeans, Corn, Grain Sorghum, Sudan Grass, Sugar Beets | 165. | Southeast Kansas Branch Experiment Station Research Report. Beef and Dairy Cattle Investigations, 1969-70  |
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| <p>69. Chlorination of Starch in Liquid Chlorine</p> <p>70. Insects Affecting Alfalfa Seed Production in Kansas</p> <p>71. The Service Qualities of a Cotton Slub-Broadcloth Laundered with Various Detergents</p> <p>72. Classification of Feathering in Broiler Stock</p> <p>73. Social Behavior of the Domestic Fowl</p> <p>74. Relation of Weather Factors to Nectarflow in Honey Production</p> <p>75. Adapting Western Kansas Farms to Uncertain Prices and Yields</p> <p>76. A Review of Methods for Determining Quality of Wheat and Flour</p> <p>77. Shelterbelt and Surface Barrier Effects on Wind Velocities, Evaporation, House Heating, Snowdrifting</p> <p>78. Payments in Lieu of Taxes</p> <p>79. Chemical Composition of Kansas Wheat, 1955</p> <p>80. Tables of Coefficients of Inbreeding in Animals</p> <p>81. Nutrition of Children in Three Selected Schools in Iowa, Kansas, Ohio: A Pilot Study (NC-70)</p> <p>82. Green House Studies Regarding the Sources and Nature of Resistance of Sorghums, <i>Sorghum vulgare</i> Pers., to the Corn Leaf Aphid, <i>Rhopalosiphum maidis</i> (Fitch)</p> <p>83. Personal and Social Factors Associated with the Adoption of Recommended Farm Practices among Cattlemen</p> <p>84. Resource Returns and Productivity Coefficients in the Kansas Cooperative Grain Elevator</p> | <p>Industry</p> <p>85. Economic Considerations for Selecting the Superior Frequency of Fallow for Wheat in Three Locations in Western Kansas</p> <p>86. Use of Linear Programming when Provision Is Made for Substitution among Inputs by Processing</p> <p>87. Income Advantage to the Specialized Grain Producing Firm from Flexible Compared with Inflexible Use of Resources</p> <p>88. Resource Returns and Productivity Coefficients in Central and Western Kansas Country Elevators of Modern Construction</p> <p>89. Nitrogen and Organic Carbon Changes in Cultivated Western Kansas Soils</p> <p>90. Emergency Chiseling to Control Wind Erosion</p> <p>91. Parasite and Diseases of Kansas Coyotes</p> <p>92. Width of Field Strips to Control Wind Erosion</p> <p>93. Studies on the Biologies of Three Related Legume Aphids in Relation to Their Host Plants</p> <p>94. An Economic Approach to the Use of Fertilizer</p> <p>95. Changes in Winter Wheat Crop Prospects</p> <p>96. Cost Functions for Bulk Milk Assembly in the Wichita Market</p> <p>97. Malignant Catarrhal Fever</p> <p>98. Labor and Power Requirements by Size of Enterprise for Beef Cattle Systems in Eastern Kansas</p> <p>99. A Study of the Performance of 50 Farm Tractors</p> <p>100. The Influence of a Summer Windbreak or Summer Wind Movement and Air Temperature</p> <p>101. Nutrition of 9, 10, and 11 year old Public School Children in Iowa, Kansas, and Ohio</p> |
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Technical Bulletins, continued—

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| <p>102. Soil Microbiological Studies Reveal Significant Factors in Oil and Gas Pipeline Back-Filled Ditches</p> <p>103. Estimated Capital Requirements, Costs, and Returns of the Egg Enterprise in Kansas</p> <p>104. Genetic Analysis of Ten Sources of Hessian Fly Resistance, Their Interrelationships and Association with Leaf Rust Reaction in Wheat</p> <p>105. Input-output Coefficients, Unit Prices, and Costs, and Restrictions for Programming and Farm Planning for Small Scale Dairy Enterprises for Southeastern Kansas Conditions</p> <p>106. A Monograph of the Genus <i>Poecilanthrax</i> (Bombyliidae; Diptera)</p> <p>107. Farmer Use and Understanding of Inductive and Deductive Reasoning in Figuring Costs and Returns</p> <p>108. Use and Interrelation of Marginal Analysis to Other Analytical Processes by Farmers in Decision Making</p> <p>109. Estimates of Optimum Plot Size from Grain Sorghum Uniformity Trial Data</p> <p>110. Producers Response to Price and Other Factors in the Greater Kansas City Milk Market (2. Labor Requirements for Grade A Dairy Farms by Size of Herd)</p> <p>111. Producers Response to Price and Other Factors in the Greater Kansas City Milk Market (3. Derivation of Linear Programming Feeding Coefficients for Dairy Enterprises Involving Distant Pasture.)</p> <p>112. Reactions of Winter Wheats to Soil-borne Wheat Mosaic Virus in Kansas</p> <p>113. Water Management and Consumptive Use by Irrigated Grain Sorghum in Western Kansas</p> | <p>114. Development and Performance of Cody Alfalfa</p> <p>115. Phenothiazine--An Annotated Bibliography through 1958</p> <p>116. Aeration of Wheat in Storage</p> <p>117. Common Names of a Selected List of Plants</p> <p>118. The Competitive Position of Kansas in Marketing Hogs</p> <p>119. Effect of Preslaughter Feeding and Resting of Swine</p> <p>120. Shade for Feedlot Cattle</p> <p>121. The Productivity of Corn and Protein Fed to Hogs on Southeastern Kansas Farms</p> <p>122. Policies for Marketing Surplus Milk II</p> <p>123. Policies for Marketing Surplus Milk III</p> <p>124. Costs and Efficiency in Alfalfa Dehydrating Plants</p> <p>125. Effect of Captan Captain-Dieldrin Seed Treatments on Germination and Yield of Eight Varieties of Winter Wheat</p> <p>126. Weekly Precipitation Amounts for Kansas</p> <p>127. A Revision of the Nearctic Species of the <i>Albofasciatus</i> Group of the <i>Anthrax scopoli</i> (Diptera: Bombyliidae)</p> <p>128. Grass Reseeding Investigations at Hays and Manhattan, Kansas</p> <p>129. The Competitive Position of Kansas in Marketing Beef</p> <p>130. Yield and Yield Components of Grain Sorghum as Influenced by Date of Planting</p> <p>131. Reducing Wind Velocity with Field Shelterbelts</p> |
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Technical Bulletins, continued—

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| 132. | Reactions of Wheat, Wheat Crosses, Barley, Rye and Oats to Wheat Streak Mosaic Virus   | 148. | The Effect of Environment and Varieties of Kansas Wheat Quality   |
| 133. | Irrigation Water Quality Charts for Kansas   | 149. | Differentiation, Ecology and Distribution of Immature Slant-faced Grasshoppers (Acridinae) in Kansas  |
| 134. | Irrigation Water Quality Charts for Kansas   |      |   |
| 134. | Irrigation Effects on Kansas Soils   | 150. | Farmers' Tax Support of the Educational Investment in Farm-nonfarm Migrants, April 1967   |
| 135. | Microbiological Studies Reveal Significant Factors in Oil and Gas Pipeline Back-Filled Ditches                                 | 151. | Economies of Scale in Commercial Cattle Feedlots of Kansas--An Analysis of Nonfeed Costs  |
| 136. | Minerals in Wheat Germ   | 152. | Power Requirements, Cloddiness, Residue Conservation Characteristics of Some Stubble-mulch Tillage Implements                                   |
| 137. | A Linear Programming Model of a Grain Elevator and Feed Firm   | 153. | Trees, Shrubs, and Annual Crops for Wind Barriers in Central and Western Kansas   |
| 138. | Stage of Maturity, Plant Population, and Row Width as Factors Affecting Yield and Chemical Composition of Atlas Forage Sorghum | 154. | Vegetation Relationships Associated with Intensity of Summer Grazing on a Clay Upland Range Site in the Kansas 20-to 24-Inch Precipitation Zone |
| 139. | Probability of Sequences of Wet and Dry Days in Kansas   | 155. | Farm Size and Resource Efficiency on Eastern Kansas Farms   |
| 140. | The Black Tailed Jack Rabbit in Kansas   | 156. | Insect Resistance in <i>Cucurbita</i>   |
| 141. | Irrigated Corn Production on Sloping Land in North Central Kansas  | 157. | The Relation of Farm Size and Efficiency to Economic Outcomes on Central Kansas Farms   |
| 142. | Construction Details for Plant Science 'Photobiolab' Growth Chambers   | 158. | The Relation of Farm Size and Efficiency to Economic Outcomes on Western Kansas Farms   |
| 143. | Changes in South Central Kansas Trade Area 1937-60   | 159. | Selecting Representative Firms in Linear Programming  |
| 144. | Effects of Cropping and Management on Nitrogen and Organic Carbon Contents of Western Kansas Soil                              | 160. | Efficiency and Size Considerations on Beef Farms in Eastern Kansas 1960-64  |
| 145. | Economies of Scale in Farm Cattle Feedlots of Kansas--An Analysis of Non-feed Costs  | 161. | Factors Influencing the Predicted Lime Requirement of Kansas Soils  |
| 146. | The Forebrain of the Deermouse in Sterotaxic Coordinates   |      |   |
| 147. | Crop Production and Its Stability in Kansas, 1941-1960   |      | Note: See next page for Research Publications, which continues this numerical series.   |

## Research Publications

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162. The Wheat Curl Mite, *Aceria tulipae* Keifer, in Relation to Epidemiology and Control of Wheat Streak Mosaic, 26 pp.
163. Interrelations of Honeybee Preference of Alfalfa Clones and Flower Color, Aroma, Nectar Volume, and Sugar Concentrations, September, 1971, 16 pp.
164. Stubble Requirements in Field Strips to Trap Windblown Soil, June 1973, 232 pp.
165. Railroad Rate Discrimination: Applications to Great Plains Agriculture, 1973, 23 pp.
166. Frozen Meat - Its Distribution Costs, Acceptance, and Cooking and Eating Qualities, July, 1975, 80 pp.
167. Grain Cooperatives: Their Growth and Structural Changes, August, 1973, 28 pp.
168. Notes on, and Redcriptions of, Types of South American Bombyliidae (Diptera) in European and United States Museums, February, 1974, 323 pp.
169. How Management and Land Expansion Affect Low-income Farms, July, 1975, 23 pp.
170. Sampling and Analysis of Soils, Plants, Waste Waters, and Sludge Suggested Standardization and Methodology (NCR Pub. 230), October, 1976, 22 pp.
171. Community Staying Power: A Small Rural Place and Its Role in Rural Development, February, 1977, 65 pp.
172. Profitability of Small-scale Fuel-alcohol Production, March, 1981, 29 pp.

## Miscellaneous Publications and Reports

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Agriculture and the Kansas Economy, Department Report, April 1994, 24 pp.

Guidelines for Release of Horticultural and Agronomic Varieties and Germ Plasm Developed by the Kansas Agricultural Experiment Station, Department Report, October, 1994, 10 pp.

Health Education Developments in Kansas: A Report to the Kansas Legislature by the Kansas Cooperative Extension Service, Special Publication, January, 1995, 10 pp.

Agriculture and the Kansas Economy: Examples of Potential Economic Enhancement, an informal report to the Kansas Legislature by the College of Agriculture, Kansas Agricultural Experiment Station and the Kansas Cooperative Extension Service, January, 1995, 36 pp.

Adding Value to Kansas Agricultural Products: Selected Examples—Products, Processes, and Potential, an informal report to the Kansas Legislature by the Kansas Agricultural Experiment Station and the Kansas Cooperative Extension Service, January, 1996, 36 pp.

Promoting Conservation and Protecting the Environment, an informal report to the Kansas Legislature by the Kansas State University Agricultural Experiment Station and Cooperative Extension Service, (SM2), January, 1997, 30 pp.

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