

**TRANSACTIONS OF THE
KANSAS STATE
HORTICULTURAL
SOCIETY; VOL. XXVI**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649422500

Transactions of the Kansas State Horticultural Society; Vol. XXVI by William H. Barnes

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Cover @ 2017

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WILLIAM H. BARNES

**TRANSACTIONS OF THE
KANSAS STATE
HORTICULTURAL
SOCIETY; VOL. XXVI**

TRANSACTIONS
OF THE
KANSAS
State Horticultural Society,
(ORGANIZED IN 1869.)

CONTAINING

THE PROCEEDINGS OF THE THIRTY-FIFTH ANNUAL
MEETING, TOPEKA, DECEMBER, 1901.

VOL. XXVI.

EDITED BY THE SECRETARY, WILLIAM H. BARNES,
PUBLISHED BY THE STATE.



TOPEKA:
W. Y. MORGAN, STATE PRINTER.
1902.

LETTER OF TRANSMITTAL.

ROOMS OF THE KANSAS STATE HORTICULTURAL SOCIETY,
STATE CAPITOL, TOPEKA, FEBRUARY 1, 1902.

To Hon. W. E. Stanley, Governor :

We take pleasure in presenting to your notice this twenty-sixth volume of the Transactions of the Kansas State Horticultural Society, containing a report of its thirty-fifth annual meeting, and hope for your congratulations on the prosperity and progress of horticulture in our state. We believe the Society is of great benefit to the citizens of the state, but that it should have greater privileges; notably that of obtaining correct statistics of tree planting and horticultural production, which can only be correctly done through the township trustees.

Hoping this report, and the work of the Society, may meet with your warmest approbation, we respectfully submit the same.

FRED. WELLHOUSE, *President.*

WILLIAM H. BARNES, *Secretary.*

OFFICERS.

FRED. WELLSHOE, *President* Topeka.
 J. W. ROBINSON, *Vice-president* El Dorado.
 FRANK HOLSINGER, *Treasurer* Rosedale.
 WILLIAM H. BAENES, *Secretary* State-house, Topeka.
 PROF. E. A. POPPNER, *Entomologist* St. Agr. Coll., Manhattan.

TRUSTEES.

First Dist. E. J. HOLMAN, Leavenworth. Second " B. F. SMITH, Lawrence. Third " F. L. KENOYER, Independence. Fourth " GEO. M. MUNGER, Eureka.	Fifth Dist. WM. CUTTIE, Junction City. Sixth " J. J. ALEXANDER, Norton. Seventh " GEO. W. BAILLY, Wellington.
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ROLL OF MEMBERS.

HONORARY.

Colman, Norman J., St. Louis, Mo. Cowgill, E. B., Topeka, Kan. Evans, J. O., Harlem, Mo. Gano, W. G., Parkville, Mo. President of the State Agricultural College, Manhattan, Kan. Chair of Chemistry and Mineralogy, State Agricultural College, Manhattan, Kan. Chair of Botany and Horticulture, State Agricultural College, Manhattan, Kan. Chair of Zoology and Entomology, State Agricultural College, Manhattan, Kan. Chair of Household Economy and Hygiene, State Agricultural College, Manhattan, Kan. Chair of Industrial Art and Design, State Agricultural College, Manhattan, Kan. Lantz, Prof. D. E., Chapman, Kan. Kedzie, Prof. R. C., Agricultural College, Michigan. Bailey, Prof. L. H., Cornell University, Ithaca, N. Y. Burrill, Prof. T. J., Secretary of American Society of Microscopists, Champaign, Ill. Forbes, Prof. S. A., State Entomologist, Champaign, Ill. Lintner, Prof. A. J., State Entomologist, Albany, N. Y. Plank, Prof. E. N., Botanist, Kansas City, Kan.	Goodman, L. A., Westport, Mo. Murtfeldt, C. W., Kirkwood, Mo. Kelsey, Prof. S. T., Kawana, N. C. Snow, Prof. F. H., Lawrence, Kan. Manhattan, Kan. Silver Lake, Shawnee co. Osage City, Osage county. Republic county. Leavenworth, Leavenworth co. Riley county. Shawnee county. Lawrence, Douglas county. Leecompton, Douglas county. Topeka, Shawnee county. Manhattan, Riley co. Leavenworth, Leavenworth co. Wyandotte county. Rosedale, Wyandotte county. Highland, Doniphan co. Shawnee county. Independence, Montgomery co. Bonner Springs, Wyandotte co. Sedgwick county. Manhattan, Riley co. Shawnee county. Independence, Montgomery co. Sedgwick county. Butler county. Lakin, Kearny county.
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LIST OF LIFE MEMBERS RESIDING IN KANSAS.

Alexander, J. J., Norton, Norton county. Bailey, Geo. W., Wellington, Sumner county. Baldwin, S. J., Beneca, Nemaha county. Barnes, William H., Topeka, Shawnee county. Barnes, J. T., Beloit, Mitchell county. Bayles, Geo. A., Topeka, Shawnee county. Beebe, Mrs. Elizabeth, Columbus, Cherokee co. Beckley, J. C., Spring Hill, Johnson county. Blair, Geo. A., Mulvane, Sumner county. Bohrer, Dr. G., Chase, Rice county. Booth, William, Winchester, Jefferson county. Bowen, F. C., Charyvale, Montgomery county. Brazelton, John, Watbena, Doniphan county. Brooks, A. L., North Topeka, Shawnee county. Browns, Geo. E., Topeka, Shawnee county. Bockman, A. H., Topeka, Shawnee county. Buel, D. G., Willis, Brown county. Bullard, H. B., Tonganoxie, Leavenworth co. Ceph, J. F., North Topeka, Shawnee county. Chandler, M. E., Argentine, Wyandotte co. Clark, J. G., Waveland, Shawnee county. Coburn, F. D., Kansas City, Wyandotte co. Cook, C. C., Bradford, Wabunsee county. Cook, Thos. F., Ellingham, Atchison county. Conslan, John, Eskridge, Wabunsee county. Curry, J. W., Winchester, Jefferson county. Cutter, William, Junction City, Geary county. Dickens, Albert, Manhattan, Riley county. Dickinson, A. E., Meriden, Jefferson county. Dickinson, S. S., Larned, Pawnee county.	Diehl, K. P., Olathe, Johnson county. Dixon, F. W., Holton, Jackson county. Eames, W. B., Delphos, Ottawa county. Eatsminger, A. L., Silver Lake, Shawnee co. Ferris, H. L., Osage City, Osage county. Fulcomer, John, Ballouville, Republic county. Gaynr, Miss E., Leavenworth, Leavenworth co. Graham, I. D., Manhattan, Riley county. Grey, E. M., Topeka, Shawnee county. Griesa, A. C., Lawrence, Douglas county. Harris, E. P., Leecompton, Douglas county. Harris, F. E., ———— Harrison, T. W., Topeka, Shawnee county. Hitchcock, Prof. A. S., Manhattan, Riley co. Holman, E. J., Leavenworth, Leavenworth co. Holsinger, C. V., Rosedale, Wyandotte county. Holsinger, F., Rosedale, Wyandotte county. Holsinger, Geo., Rosedale, Wyandotte county. Holsinger, G. L., Rosedale, Wyandotte county. Irwin, C. W., Wichita, Sedgwick county. Johnson, Mrs. V. M., Highland, Doniphan co. Jordan, J. S., Wakarusa, Shawnee county. Kenoyer, F. L., Independence, Montgomery co. Kerr, H. H., Bonner Springs, Wyandotte co. Lake, John W., Waldo, Russell county. Lawrence, R. E., Wichita, Sedgwick county. Leach, J., St. Mary's, Pottawatomie county. Leach, L. W., Wichita, Sedgwick county. Litson, W. H., Benson, Butler county. Longstreth, C. H., Lakin, Kearny county.
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LIFE MEMBERS RESIDING IN KANSAS—CONTINUED.

Lux, Phillip, Topeka, Shawnee county.
 Lyon, E. H., Udall, Cowley county.
 Maffet, Geo. W., Lawrence, Douglas county.
 Martindale, C. D., Scranton, Osage county.
 McMasters, John, Eckridge, Wabaunsee co.
 McNicol, James, Lost Springs, Marion county.
 Meser, J. J., Hutchinson, Reno county.
 Miller, E. L., Seneca, Nemaha county.
 Moezer, William, Topeka, Shawnee county.
 Mohler, Martin, Topeka, Shawnee county.
 Moser, M. R., Wichita, Sedgewick county.
 Mosher, J. A., Bydal, Republic county.
 Munger, G. M., Eureka, Greenwood county.
 Newberry, H. J., Galena, Cherokee county.
 Oberndorf, A., jr., Centralia, Nemaha county.
 Pancoast, B. F., Iola, Allen county.
 Parlor, Mrs. H. F., Haviland, Kiowa county.
 Phillips, B. A., Osborne, Osborne county.
 Popenoe, Prof. E. A., Manhattan, Riley co.
 Rhodes, Henry, Gardner, Johnson county.
 Richardson, Geo. C., Leavenworth.
 Ringle, W. E., Independence, Montgomery co.
 Roberts, H. R., Perry, Jefferson county.
 Robinson, J. W., El Dorado, Butler county.
 Rubart, Miss Lizzie, Junction City, Geary co.
 Rude, F. P., Topeka, Shawnee county.

Schlichter, J. B., Sterling, Rice county.
 Scott, A. E., Meriden, Jefferson county.
 Sharp, James, Parkerville, Morris county.
 Sheffield, C. H., Topeka, Shawnee county.
 Shields, H. S., Garnett, Anderson county.
 Shoo, L. A., Highland, Douglas county.
 Smith, B. F., Lawrence, Douglas county.
 Smith, W. W., Le Roy, Coffey county.
 Smyth, B. B., Topeka, Shawnee county.
 Stayman, Dr. J., Leavenworth.
 Sisson, A. H., Independence, Montgomery co.
 Taylor, Edwin, Edwardsville, Wyandotte co.
 Taylor, T. T., Hutchinson, Reno county.
 Underwood, W. H., Hutchinson, Reno county.
 Wellhouse, Fred., Topeka, Shawnee county.
 Wellhouse, Walter, Topeka, Shawnee county.
 Wheeler, E. D., Wa Keena, Trago county.
 Whitestone, J. H., Pomona, Franklin county.
 Whiteaker, Geo. P., Topeka, Shawnee county.
 Williams, J. L., Kansas City, Wyandotte co.
 Williams, J. W., Holton, Jackson county.
 Wolverton, E. K., Barnes, Washington co.
 Yaggy, A. F., Hutchinson, Reno county.
 Yaggy, E. H., Hutchinson, Reno county.
 Yaggy, L. W., Hutchinson, Reno county.

Secretary of Manhattan Horticultural Society.
 Secretary of Johnson County Horticultural Society.

LIFE MEMBERS NOT RESIDING IN KANSAS.

Allen, Abner, College Park, Cal.
 Brackett, G. C., Fresno, Cal.
 Converse, D. C., Fort Atkinson, Wis.
 Daniels, E. T., Wynoka, Okla.
 Davidson, C. M., Cincinnati, Ohio.
 Dobbs, J. B., Lima, Ohio.
 Fomanot, W. E., Keosauqua, Iowa.
 Gale, Prof. E., Mangonia, Fla.
 Godfrey, A. N., Dayton, Wash.

Hall, M., Oklahoma.
 Hicks, John E., Roslyn, N. Y.
 Irvin, W. A., El Paso, Tex.
 Milliken, Robert, Nampa, Idaho.
 Snyder, Wm., Ben Lomond, Cal.
 Taylor, E. A., Arcadia, Tex.
 Van Deman, H. E., Parkesley, Va.
 Weidman, J., Oklahoma.

ANNUAL MEMBERS FOR 1902.

Baldwin, Roy S., Seneca.
 Benedict, E. W., Topeka.
 Bradley, E., Abilene.
 Carter, H. C., Baldwin.
 Cellar, W. D., Edwardsville.
 Chandler, A., Randolph, Mo.
 Crow, S. M., Topeka.
 Goble, Francis, Wallula.
 Goodell, H. E., Tecumseh.
 Graves, J. M., Ellingham.
 Griess, A. H., Lawrence.

Irvin, J. M., St. Joseph, Mo.
 Remsburg, J. K., Oak Mills.
 Richmond, R. A., Lenora.
 Scrimscher, W. F., Silver Lake.
 Skinner, J. H., North Topeka.
 Smith, C. S., North Topeka.
 Snyder, Edwin, Okaloosa.
 Stewart, Thomas, Hoyt.
 Tuttle, D. D., Vinland.
 Van Orsdol, B. F., Silver Lake.
 Whitaker, E. J., Topeka.

DELEGATES TO THIRTY-FIFTH ANNUAL MEETING.

Leavenworth County Horticultural Society, Carl Holman and John Barre.
 Manhattan Horticultural Society, A. J. Nicholson.
 Missouri Valley Horticultural Society, H. S. Wheeler and J. S. Perkins.
 Montgomery County Horticultural Society, W. E. Ringle.
 Osage County Horticultural Society, M. Arnold and C. D. Martindale.
 Saline County Horticultural Society, F. G. Barker and Alfred Jones.
 Wabaunsee County Horticultural Society, Samuel Harris and Mrs. Samuel Harris.
 Wyandotte County Horticultural Society, J. S. Perkins and C. A. Chandler.

CONSTITUTION OF THE SOCIETY.

Article 1.—This association shall be known as the Kansas State Horticultural Society.

Art 2.—Its object shall be the promotion of horticulture.

Art. 3.—Its members shall consist of (1) honorary members, persons of distinguished merit in horticulture, elected by a majority vote of the Society; (2) life members, persons paying five dollars to the secretary at one time; and (3) annual members, persons paying one dollar to the secretary, membership of same to cease on the first day of the following annual meeting, unless renewed.

Art. 4.—The legislative body of this Society shall consist of life members, two delegates from each auxiliary society, and annual members of one year's standing.

Art. 5.—Its officers shall be a president, vice-president, secretary, and treasurer, elected by ballot at the annual meeting in even years. They shall serve for the term of two years, or until their successors are elected and qualified.

Art. 6.—There shall be elected, biennially, a trustee from each congressional district, who shall serve for two years or until a successor shall have been elected and qualified. These trustees, together with the president, vice-president, secretary, and treasurer, shall constitute an executive board. The president, secretary and treasurer shall constitute the executive committee.

Art. 7. The terms of its officers and trustees, excepting the secretary and treasurer, shall begin immediately on adjournment of the annual meeting at which they shall be elected; that of the secretary and treasurer shall begin July 1 following their election.

Art. 8.—This Society shall hold its annual meeting in Topeka during the month of December. Semiannual meetings may be held at such time and place as the executive committee shall determine.

Art. 9.—The official seal of this Society shall consist of a circular disk, and shall contain thereon the following: "Kansas State Horticultural Society, 1869. *Ad astra per aspera.* Man's first occupation." With appropriate illustration.

Art. 10.—This constitution may be changed or amended by a two-thirds vote of the members present at any annual meeting, provided such change or amendment shall have been submitted and read at the last preceding annual meeting.

BY-LAWS.

Section 1. It shall be the duty of the president to preside at all meetings of this Society and of the executive board, and perform such other duties as may devolve upon him.

Sec. 2. The vice-president shall, in the absence or inability of the president, perform the duties of said office.

Sec. 3. It shall be the duty of the secretary to keep a full record of the proceedings of this Society; to have charge of the official seal and keys of the So-

ciety's rooms, and full care of all books, papers, furniture, diplomas and other property pertaining to or belonging to this Society; also to represent this Society in all its correspondence. He may, by consent of the executive committee, appoint a deputy and employ necessary help; and shall receive all money due this Society, paying same (excepting state appropriation) to the treasurer, taking his receipt therefor. He shall encourage and assist in organizing auxiliary societies throughout the state, gather and record statistics, make a complete report of his office at each annual meeting, and compile annually a report of the transactions of this Society for publication.

Sec. 4. It shall be the duty of the treasurer to receive from the secretary all money (except state appropriation) belonging to this Society, and pay out the same upon order of the secretary, countersigned by the president. He shall keep an account of the funds in his charge, and make an annual report to this Society. At the expiration of his term he shall turn over to his successor all books, accounts and money remaining in his hands or possession.

Sec. 5. It shall be the duty of the executive committee to assist the secretary in compilation of the report for publication; to perform the duties of the executive board between meetings; supervise the disposal of all money of this Society, and perform such other duties as the executive board may prescribe.

Sec. 6. The executive board shall have full control of all the affairs of this Society; shall appoint standing committees at the close of each annual meeting for the ensuing year on all subjects of interest to Kansas horticulture; each standing committee to make a written report, through its chairman, to the annual meeting following their appointment. It shall hold a board meeting on the day preceding the annual meeting, and again immediately after adjournment of the annual meeting.

Sec. 7. By a two-thirds vote of the members present at any annual meeting, these by-laws may be changed or amended.

TRANSACTIONS

OF THE THIRTY-FIFTH ANNUAL MEETING OF THE KANSAS
STATE HORTICULTURAL SOCIETY, MET IN TOPEKA,
THURSDAY, DECEMBER 26, 1901.

First Day—Afternoon Session.

The thirty-fifth annual meeting of the Kansas State Horticultural Society was called to order by President Wellhouse promptly at three o'clock p. m.

Prayer was offered by Rev. S. C. Coblenz, pastor of the First United Brethren Church of Topeka.

ANNUAL REPORTS OF TRUSTEES.

PRESIDENT WELLHOUSE: The first business on the program is the report of the trustees, by congressional districts, on horticultural conditions and progress. The year 1901 has been one of the most remarkable seasons Kansas ever passed through, and it is presumed that these representatives have investigated and studied the conditions and that they will report results. We expect them to confine themselves as much as possible to the conditions and results of the past season. The first district is represented by Trustee E. J. Holman, of Leavenworth county.

FIRST DISTRICT.

MR. HOLMAN (Leavenworth): In Leavenworth county, the past year has been one of disappointment and some confusion. We had in the springtime the most glowing promise of as abundant a small-fruit crop as we ever had. We commenced harvesting strawberries and were about half way through when we began to feel the effects of the drought. It cut that crop in two, and left us but few blackberries or raspberries. I might say that the drought practically destroyed our small-fruit crop; and we were feeling very "blue"—I presume other small-fruit growers of the state were—and not of this state only, but of Missouri as well. I can better illustrate the feeling that existed by telling a little incident occurring between one of my patrons and myself. He bought, as usual, quite a liberal bill of our nursery stock in the spring. I met him on the street some time in July, and asked him if he was ready to pay anything on account, and he looked at me pitifully and said: "My God, I have eight children to feed. I owe some money. I have n't got a thing to sell, and everything is blasted." There was no hope left to that man, seemingly. He did not know whether he was going to get a peach or anything else unless he borrowed some money. It looked as though the rest of the year would be for him blank—one of the blankest of blanks. It ran on thus until we thought the peaches, apples, pears and plums were gone; then rain came and hope began to revive. I am glad to say—and I rejoice as you do to-day—that sufficient rain came to give us a surprising crop of large fruits.

A little more about that man: That man sold over \$1000 worth of peaches, and over \$2000 worth of apples, from only a little forty-acre farm near Leaven-