

November, 1916

Extension Bulletin

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Colorado Agricultural College

EXTENSION SERVICE

Fort Collins, Colorado

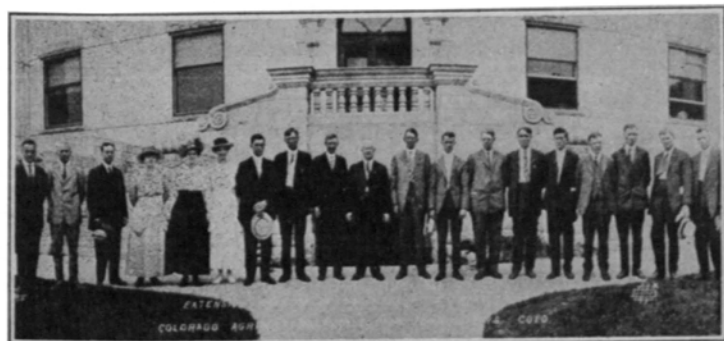
H. T. FRENCH, Director

ANNUAL REPORT

Director Extension Service

FOR

Year Ending June 30, 1916



Extension Staff and County Agricultural Agents

CO-OPERATIVE EXTENSION SERVICE IN AGRICULTURE AND HOME
ECONOMICS—COLORADO AGRICULTURAL COLLEGE AND U. S.
DEPARTMENT OF AGRICULTURE CO-OPERATING

Colorado Agricultural College

FORT COLLINS, COLORADO

CHAS. A. LORY, President

EXTENSION SERVICE

H. T. FRENCH.....DIRECTOR
M. N. DILLON.....ASSISTANT DIRECTOR
A. E. LOVETT. STATE LEADER COUNTY AGRICULTURAL AGENTS
IDA L. SMITH.....EXECUTIVE CLERK

EXTENSION STAFF

W. E. VAPLON.....STATE LEADER CLUB WORK
W. E. FOARD.....FARM MANAGEMENT DEMONSTRATIONS
MIRIAM M. HAYNES.....HOME ECONOMICS
R. W. CLARK.....ANIMAL HUSBANDRY
MAUDE E. SHERIDAN.....ASSISTANT STATE LEADER CLUB WORK
J. L. TAYLOR.....MARKETS AND MARKETING
RALPH L. CROSMAN.....EDITOR OF PUBLICATIONS
COLLEGE FACULTY CO-OPERATING

COUNTY AGRICULTURAL AGENTS

GEO. C. BURCKHALTER.....STERLING, LOGAN COUNTY
PAUL N. FLINT.....ARRIBA, LINCOLN AND KIT CARSON COUNTIES
W. H. LAUCK.....COLORADO SPRINGS, EL PASO COUNTY
C. G. McCORD.....FORT MORGAN, MORGAN COUNTY
S. V. SMITH.....PUEBLO, PUEBLO COUNTY
H. H. SIMPSON.....LONGMONT, BOULDER COUNTY
E. D. SMITH.....HESPERUS, LA PLATA AND MONTEZUMA COUNTIES
GEO. R. SMITH.....BRIGHTON, ADAMS COUNTY
RODNEY C. ALLRED.....GLENWOOD SPRINGS, GARFIELD COUNTY
RALPH R. JEFFRIES.....CANON CITY, FREMONT COUNTY
E. H. THOMAS.....ALAMOZA, SAN LUIS VALLEY
CHAS. E. SMITH.....TRINIDAD, LAS ANIMAS COUNTY
E. BULA HERSCHLER..COUNTY DEMONSTRATOR IN HOME ECONOMICS, EL PASO COUNTY

Letter of Transmittal

To His Excellency, George A. Carlson.

Governor of Colorado.

Sir:

In accordance with the provisions of the Smith-Lever Act providing for co-operative extension work in agriculture and home economics I have the honor to submit herewith a report of the Extension Service in the State of Colorado for the year ending June 30, 1916.

Very respectfully,

A handwritten signature in cursive script, reading "H. V. French". The signature is written in dark ink and is positioned above the typed name "Director.".

Director.



Colorado Agricultural College

EXTENSION SERVICE

Annual Report of Director for the Year Ending June 30, 1916

H. T. FRENCH

Administration

An important change in the administration of extension activities was made effective September 1, 1915, by the employment of a Director of Extension Service who would also act as State Leader of County Agricultural Agents; the former State Leader having resigned to accept a similar position in the State of North Dakota. Prior to this time, Dr. Chas. A. Lory, President of the College, served as Acting Director.

There were no other changes in the extension staff until December, 1915, when Mary L. Oberlin resigned as Specialist in Home Economics to accept a position in teaching, and Miriam M. Haynes was elected to fill the place.

The administrative officers and specialists employed under the Smith-Lever Act in the Extension Service have no teaching duties or other activities aside from those connected with extension work. Exception to this statement should be made in the employment of the Editor of Publications, who is secured through a co-operative arrangement with the College and Experiment Station organizations.

The Assistant Director had immediate charge of Farmers' Institutes and Extension School activities in conjunction with other office duties.

Office facilities are furnished by the college authorities, and are located in the main administration building. Specialists have office room in connection with the departments which they represent.

Farmers' Institutes

All farmers' institutes are conducted under the direct supervision of the Extension Service, and as far as possible this work is organized in connection with the activities of the County Agricul-

tural Agents. There are a number of agricultural sections, outside of counties where county agents are located, in which institutes are held; and such meetings are organized in co-operation with local communities and supervised entirely from the central office. Meetings covering one or two days are termed institutes, and where organized with a view of carrying forward a definite plan of instruction and extending over three days or more come under the designation of Extension Schools.

Extension Schools

An effort is being made to encourage extension schools in place of the one-day institute, believing that the time has come in most rural sections when more thorough and more definite information is needed than it is possible to give in the short time allotted to the institute. With this object in view a thorough co-operation between the County Agricultural Agents and the central office is being established to assist in organizing the work along this line. All of this work, with one or two exceptions, was conducted in counties where agents are located, believing that much time is saved and a greater efficiency is secured through this plan.

During the year there was 103 institutes, seven two-day meetings and nine three-or-more-days meetings held, with a total attendance of 19,777.

Co-operation with College and Experiment Station

The Extension Service meets with the hearty co-operation of the college faculty and Experiment Station staff, in carrying forward its work, and especially in the institute and extension school activities. Until such time as funds will permit the employment of a larger staff of specialists, this arrangement will have to continue; and it is doubtful if the extension service should ever become entirely independent of this co-operation; for such a service brings the college people and station men in closer touch with the problems of country life, farm management and practice, all of which contribute to their efficiency in the various lines of endeavor in which they are engaged whether it be teaching or investigational work.

Revenues

The Extension Service is thus far supported by the federal Smith-Lever fund and state appropriation sufficient to meet the requirements of this measure. A small additional state fund is furnished from the College allowance to take care of extension activities which cannot be supported from the Smith-Lever funds

either state or federal. An official statement of all extension funds thus expended during the year is found at the close of this report.

Additional funds should be provided by the State for general extension purposes; such as carrying on farmers' institutes, assisting Farmers' Congress, making exhibits, publication of "News Notes" and in maintaining the multigraph service which is not altogether self-supporting. No Smith-Lever federal funds, nor State funds appropriated to meet the requirements of the Smith-Lever Act, can be used for the purposes mentioned above, hence the need of supplementary State funds for this emergency.

In addition to the list of office furniture and fixtures given below, there have been added to the equipment during the year some six hundred lantern slides and several stereopticons for extension use. Sets of slides illustrating better farm practice, live stock, methods of irrigation, drainage, dairying, poultry management, and many other interesting features, are loaned to our County Agricultural Agents and to high school teachers of agriculture and others who desire to make use of this illustrative material.

Many charts have been made for extension specialists and for county men to aid them in their work.

Office Equipment

1 Dictaphone complete	\$ 85.50
2 Dictaphones @ \$50.00	100.00
2 Dictaphones @ \$52.50	105.00
1 Second-hand desk	18.00
1 Desk, Chair, and Filing case	72.73
1 Desk, Chair, and Filing case	78.80
1 Oak Filing Case with base	16.04
1 Filing case	5.40
1 Filing case	12.00
1 Typewriter	70.00
2 Typewriters exchanged, difference	74.85
1 Double Panel Oak desk	20.10
1 Roll top desk	15.00
1 6-drawer card cabinet	10.80
4 Filing cases	20.16
1 Cabinet with drawer	23.50
2 Telephone sets	19.45
1 Telephone set	10.15
1 Typewriter chair	5.00
Miscellaneous	87.68
Total	\$850.16

Multigraph Service

One of the very useful features of the Extension Service is the Multigraph Service, which is not only convenient and time-saving, but saves several thousand dollars annually to the institution and especially to the extension service, by furnishing small printing

and circular matter at cost. The mailing lists are kept in this department and all circularizing is done from this office for our field men, and for resident members of the Extension Service and college faculty.

The Editor of Publications has immediate supervision of this work.

Library

No special effort or expenditure has been made to build up an extension library other than to preserve and place on file the current bulletins and publications bearing on the extension work. The Colorado State Circulating Library has, through the President of the Commission, Mrs. Fannie M. D. Galloway, loaned each of our County Agents a set of fifty volumes of books pertaining to farm life and farm practice. The books are circulated by these men among the rural people and in this way a splendid service is performed. Each of the county men is supplied with bulletins published by the Experiment Station, and the U. S. Department of Agriculture, for distribution and for reference.

Publications

Under the Smith-Lever Act, provision is made for the publication of circulars and bulletins, costing not to exceed five percent of the appropriation in any one year. Under this provision, two bulletins were published during the year, totaling eight pages, and seven hundred-fifty copies each. The annual report containing twenty pages, was also published. Two bulletins of sixteen pages each were published by using state funds, eight thousand copies each.

Numerous articles were published through the public press during the year. The County Agents find the press very willing and very helpful in disseminating useful information to their people. The Extension Office keeps on file a number of publications which print from time to time matter pertaining to the extension service.

A mailing list is being prepared and properly indexed for use of extension service. There are some three thousand names on the list at present and it is growing rapidly. A card index is in process of preparation so that the list may be supplemented and revised with the least possible expenditure of time and effort.

Projects

Project I has already been covered under Administration.

Project II

Project II was merged into Project I, so far as administrative duties were concerned, due to the fact that one person is serving as Director of Extension Service and State Leader of County Agricultural Agents.

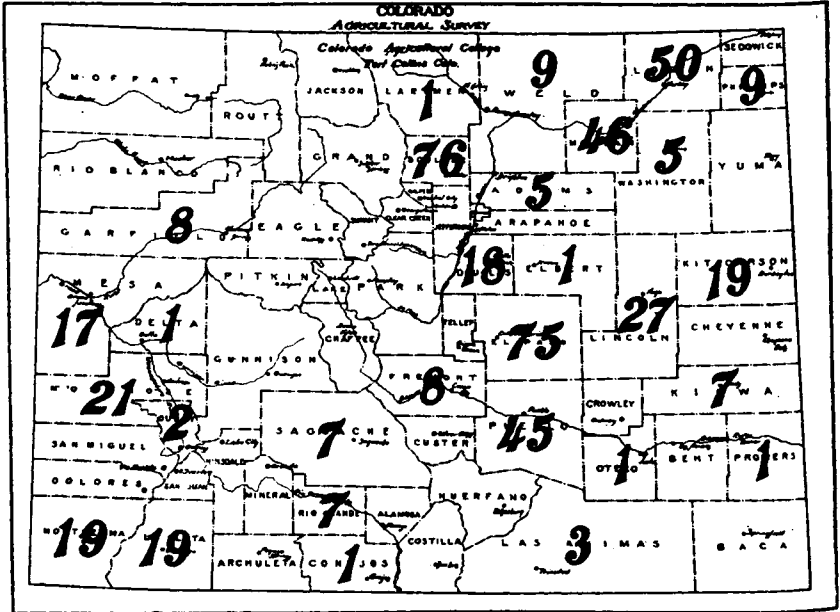
Mr. A. E. Lovett, of Crook County, Oregon, has been secured to become State Leader of County Agricultural Agents, and will take up the active duties of the office soon after the close of the present fiscal year.

County Agricultural Agents

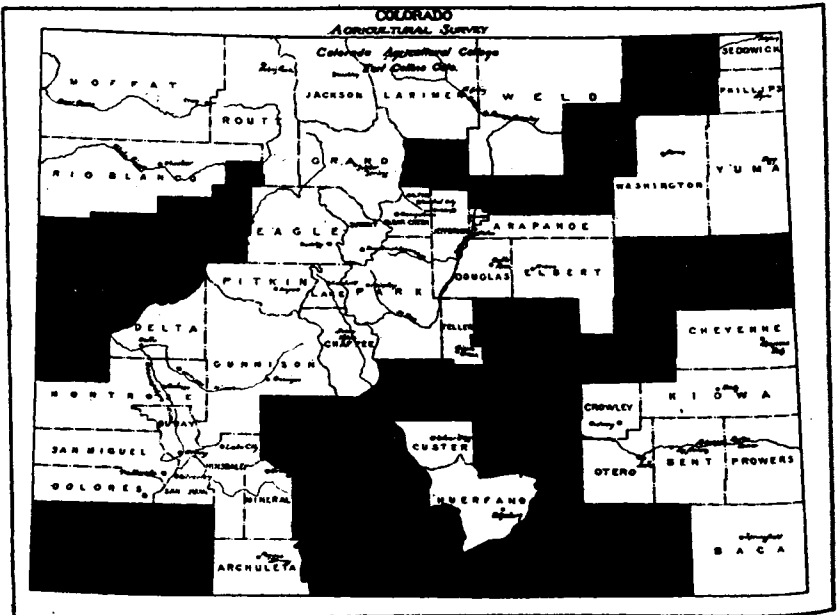
At the beginning of the year, July 1, 1915, there were ten county men in the field. Three others have been employed during the year, one in each of the following counties: Las Animas, Fremont and Garfield. In Mesa county, co-operation on the part of the College and the U. S. Department in use of funds, has been discontinued owing to the lack of proper understanding between the County Commissioners and the college authorities in the selection of a man for this work. The services of the former County Agricultural Agent were discontinued by the Board of Commissioners. However, it is hoped that this matter may soon be adjusted and that Mesa county may again take up the work, as a splendid start has been made in the service and much good had been accomplished in that section of the state.

At the close of this report is given a summary of the services rendered by the County Agricultural Agents in Colorado for the year, 1915-16. However, it is impossible to indicate fully the activities of these men for there is no way of measuring the results attained except to watch future developments in the sections of the state where these men are located. No record is made of much of their most useful work, and can only be shown in the future growth and progress of the communities which are co-operating with the county men. Better rural schools and churches and better country life will ultimately be the characteristics which shall indicate the presence of a County Agricultural Agent in the community, if he carries into effect the instructions of the service and the fundamental principles on which it is established.

Colorado has thirty—or perhaps thirty-five—counties in which the business of farming will eventually predominate, and it is not too much to suppose that each of the counties will in the near future



Number of Boys' and Girls' Clubs, 1916



Counties Served by County Agricultural Agents, 1916

apply for County Agricultural Agents to assist in building up this most important industry.

Colorado is one of the first and foremost of the Western states in this work, and we should not take any steps backward but should go forward. As the founders of this work well knew, a successful agriculture has given every section of the world, where it has been intelligently practiced, a permanent history, and the same will be true in the future, hence too much stress cannot be placed upon the means by which this great industry in the state of Colorado shall be fostered and improved.

Project III--Boys' and Girls' Club Work

Work in this department will be strengthened after July 1st by employing an assistant who will take up her duties at that time.

Often the work done by the boys and girls is the only way by which we are able to interest the older people. Hence this work often becomes important to the county men in starting the farm demonstration work.

Further details of the work are embraced in the report of Professor W. E. Vaplon, State Leader, which follows:

Annual Report of Boys' and Girls' Club Work

July 1, 1915—June 30, 1916.

"On June 1, 1915, there were 2,691 boys and girls enrolled in club work. Seven projects were carried through the year, viz: Corn, pig, poultry, potato, garden, sewing and cooking.

"Up to the present time, June 30, 1916, 3,325 members have been enrolled in club work. Members are required to keep careful records of matters pertaining to their work, such as cost of production, material used, etc., to make an exhibit and to write a story of the season's work. Last year 1,628 fulfilled these requirements; many others finished their crop or did more or less work without doing all that is expected of members; some fell by the wayside; many did poor work; but the seed of better agriculture, home co-operation and a better social life is bearing fruit.

"The fact that only 375 of this year's members were enrolled last year, seems to indicate a weakness in organization or that we have failed to interest or benefit the other 2,316 boys and girls.

"But if it means 375 volunteers in the study of agriculture and home economics, the second year of instruction will be of more benefit to the community where boys and girls live than the first year's work meant to the whole number.

"The work was carried on in twenty counties, although a comparatively small number were enrolled in counties where there were no county agriculturists.

"By rail and by automobile, 14,500 miles were traveled. We are trying to arrange our trips so as to cover a certain section of the state at a certain time, thoroughly, and thus save mileage.

"One Concrete Club has been formed in Mesa County. To help this club we secured bulletins and pamphlets from the Department of Agriculture and Concrete Companies.

"H. H. Simpson will have a few Beet Club members. We do not want to add to our club projects until we get those now in motion running smoothly, but it seems to Professors Sargent, Morrill, and myself, that a Tree Club could be made of much value to our State; especially to the mountain boys and girls who are as yet largely not identified with club work.

"Miss Maude Sheridan, Superintendent of the Cheyenne School, Colorado Springs, Colorado, has been appointed as assistant in club work. This will help much toward following up the work more closely and also help in giving the local leaders proper support and encouragement. The question of large numbers or quality of work is always open to discussion. Membership could be very easily doubled, but we have not encouraged a membership campaign, advising that more time and attention be given to the few."

Project IV--Home Economics

The continuity of the work under this project was somewhat broken by the resignation of Miss Oberlin, who decided to change her line of activities from the Extension Service to that of teaching. This action was taken in December, 1915, and Miss Miriam Haynes, an instructor in the Home Economics Department of the College, was selected to take up the Extension work, January 1, 1916. Under Miss Haynes' efforts the work has gone on very satisfactorily and is beginning to crystallize into some real service for the rural people. A definite line of work in kitchen betterment has been undertaken in co-operation with the County Agents and some results are already apparent.

This line of action will be continued until every rural home, it is possible to reach, will be advised as to better arrangements to relieve the drudgery and uncomfortable surroundings which hinder the efficiency and often destroy the pleasure of country life. This work will need additional assistance in the near future to meet the demands of the people and to fulfill the requirements of the Smith-Lever Act pertaining to this branch.

Project V--Farm Management Demonstration

It is the function of this branch of the work to co-operate with the County men in analyzing farming as a business enterprise. To this end a number of farm records are made in each county and the actual results as they are found are given to these farmers, showing to them clearly whether their farm operations are paying a reasonable labor income or not. And if not, the reasons for failure are pointed out to the farmers and a change is suggested and followed up by the County men, thus leading the way to success where failure prevailed before. Farm Record books are supplied to farmers at cost (twenty-five cents), and many farmers are glad to avail themselves of the opportunity to keep a simple system of farm accounts.

Farm records have been worked out on from fifty to one hundred farms in five different sections of the state during the past year. These sections and others will be gone over again in 1916 to verify the reports and to again call attention to the importance of this work.

Project VI.--Animal Husbandry

The plan is to provide as rapidly as possible, in co-operation with the Department of the College and Experiment Station, specialists in each branch who will devote all their time to the extension service. With this in view, a man has been employed for work in Animal Husbandry including dairying. The field men are continually needing expert advice regarding various enterprises and help in solving problems which often present themselves. These specialists are available at all times without interfering with the regular work of the College and Station; and are also available as instructors in the extension schools and institutes.

Mr. R. W. Clark of Montana has been selected to fill this place in live stock work with the Extension Service, in co-operation with the Animal Husbandry Department of the College, and will begin his work July 1, 1916.

Project VII.--Markets and Marketing

The question of production is not the only important issue, nor is it the most important, just at this time in our estimation. Distribution is quite as important, and by many considered a far more important problem, affecting both producer and consumer, than any other question before the people of the country today.

In order to assist the producer in disposing of the products of his labor, and, if possible bring him in closer touch with the consumer, who will in turn benefit by the effort, it is proposed to

establish a department of Markets and Marketing, with a specialist at its head who by his training and experience will be able to assist in the disposition of farm products to better advantage than has been possible heretofore. He will not handle the products himself, but will gather information as to market facilities and requirements, supply and demand of various products, transportation advantages, and to assist in the standardization of products, and many other problems which will present themselves as the work develops.

Colorado occupies a unique position in regard to this work; being midway between the Pacific states and the Mississippi river points. Then she has many local problems peculiar to the State and closely related to the soil and climatic conditions which should be taken into consideration in this work. There are some specialized industries such as the growing of seed crops free from disease, which demand attention as to market facilities. The potato crop alone is worthy of serious consideration in the possibility of producing seed free from the fungous diseases so common and so completely ruinous to many potato growing sections.

Co-operation with the Office of Markets in the Department of Agriculture, Washington, D. C., is contemplated in establishing this work and in the administration of the office as it develops. A small appropriation of two thousand dollars (\$500 from the Extension fund and \$1500 from the Experiment Station) has been set aside to be supplemented by a like sum from the Department at Washington to start the work. Some needed legislation by the State Assembly will be asked for this winter to foster this work both in the administration of the office and to furnish funds for its development, for we cannot draw any considerable amount from the Smith-Lever fund for this work.

It is proposed to establish headquarters for this work at Denver. Suitable quarters can be obtained without expense in the Government Building; but the work will be supervised by and closely associated with other extension activities of the College.

Project VIII.--General Extension

Under this head is placed the Farmers' Institute work, Farmers' Congress, Fairs and Exhibits, News Notes, and many general activities which can not be connected with the regular projects outlined above. In fact, the principal portion of the work done here cannot be supported from the use of the Smith-Lever funds. It is considered under the head of purely local or State work and the Department at Washington does not co-operate in supplying any

funds, nor does the Office at Washington take an active part in the administration of the work.

An effort is being made to confine Institute work and Extension Schools, to the sections where field men are located; but it is not practical to do this altogether for there are agricultural areas in the state remote from these sections, which are calling for institutes and farmers' gatherings and are demanding attention from the Extension Service.

There is an increasing demand for assistance at County and local fairs, and community gatherings. It is embarrassing to collect traveling expenses at all times for college people on these trips. The Smith-Lever fund cannot be used to defray expenses of Farmers' Institutes and similar meetings, therefore there should be a state fund created for this purpose.

I do not know of any state in the country that does not provide by special appropriation for general extension work, and some states appropriate very liberally for this cause.

News Notes

The publication of "News Notes," a weekly sheet containing timely articles prepared by the various departments of the college, Experiment Station and Extension Service, is meeting with considerable favor as indicated by the number of local papers which make use of the material thus furnished. Since November, 1915, some effort has been made to check up the matter copied in local papers, up to June 30, 1916, and the best information available shows that during this time not less than 1,913 inches of material has been printed from "News Notes" in the local papers of the State; and this only covers a period from November 15, 1915, to June 1, 1916. Five hundred, forty-two signed articles were published during the year, and 25 special extension stories covering 717 inches of space. It will be readily seen from the above figures that this weekly publication is furnishing valuable information which is being used very widely throughout the state.

STATISTICS SHOWING EXTENSION ACTIVITIES

Farmers' Institutes, Attendance	19,777
Farmers' Congress and Short Course	477
Meetings held by County Agents, Attendance	45,393
Days of Judging at Fairs	145
Number of County Agriculturists	12
Number of Counties having Agriculturists	18
Farm Bureaus Organized	8
Membership (to January 1, 1916)	952
Boys' and Girls' clubs, members	3,325
Counties in which clubs are formed	20
Farm Visits made by Agents	5,610

STATISTICS SHOWING EXTENSION ACTIVITIES—(Continued.)

Letters written by County Agents	6,451
Articles for Press	173
Acres of corn planted with selected seed	4,631
Farms treating Oats for Smut	827
Acres of Oats treated	12,810
Hogs vaccinated for Cholera	2,567
Cattle Treated for Blackleg	803
Acres of land drained	4,250

**SUMMARY OF EXTENSION WORK DONE BY THE COLLEGE
DEPARTMENTS DURING THE YEAR,
JULY 1, 1915, TO JUNE 30, 1916.**

Departments	No. of days in field	Letters written News Notes articles
Agronomy	148 ½	2733 letters 52 news notes
Animal Husbandry	65	3537 letters 36 news notes
Botany and Forestry	80	450 letters 34 news notes
Chemistry		200 letters 18 news notes
Civil and Irrigation Engineering ...	11	265 letters 26 news notes
English and History		23 news notes 12 letters
Home Economics	25	53 news notes 723 letters
Horticulture	78	18 news notes 439 letters
Library	26	24 news notes
Mathematics		9 news notes
Mechanical Engineering		25 news notes
Physics and Electrical		18 news notes
Rural Education	44	397 letters 12 news notes
Veterinary Med.	134 ½	1806 letters 50 news notes
Zoology and Entom.	72 ½	1097 letters 19 news notes
Total	684	11769 letters 412 news notes

**SUMMARY STATEMENT OF FUNDS FROM ALL SOURCES FOR
EXTENSION WORK UNDER THE SMITH-LEVER ACT,
1915-1916.**

Dr.		
To balance on hand	.....	\$ 264.46
Receipts for 1915-16	.....	28,127.55
		<hr/>
		\$28,392.01
Cr.		
	Abstract	
By Salaries	1	\$13,213.49
Labor	2	1,167.58
Printing and distribution of publications	3	923.62
Stationery and small printing	4	1,608.53
Postage, etc.	5	830.63
Heat, light, etc.	6	3.25
Supplies	7	788.45
Library	8	.....
Tools, etc.	9	43.14
Furniture and fixtures	10	988.68
Scientific apparatus, etc.	11	268.32
Live Stock	12	.....
Traveling expenses	13	7,680.51
Contingent expenses	14	66.60
Balance		809.21
		<hr/>
Total	.....	\$28,392.01
Additional funds expended directly by the counties in sup- porting county agricultural agents	.....	\$14,153.09
		<hr/>
Grand total	.....	\$42,545.10