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BULLETIN

OF THE

Oregon Agricultural College

OREGON STATE
AGRICULTURAL COLLEGE
17 JAN 1933



BRARY

ANNUAL REPORT

OF THE

President of the Board of Regents

1909-1910

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ACCESSION _____

CALL
NO.

ANNUAL REPORT

Of the President of the Board of Regents of the Agricultural College of the State of Oregon.

HON. FRANK W. BENSON,

Governor of the State of Oregon:

Sir:—

As required by Section 3535 of Bellinger & Cotton's Annotated Codes and Statutes of Oregon, I have the honor to submit my report as President of the Board of Regents of the Agricultural College of the State of Oregon and the Experiment Station, for the year ending June 30, 1910:

PROPERTY BELONGING TO THE COLLEGE.

The College is the owner of the following tracts of land situated immediately West of the City of Corvallis in Benton County, Oregon, acquired from the following sources, and the following amounts being paid therefor.

Tract No. 1.

ORIGINAL CAMPUS.

Donated by Citizens of Corvallis, April 17, 1871.
Cost \$4500. Present Value \$175,000.

Beginning at the S. E. corner of Claim No. 62 in T. 11 S., Range 5 West of the Willamette Meridian, thence N. 88 deg. 30 min. E. to the West boundary of the County Addition to the Town of Corvallis, thence N. 19 deg. E. 8 10-100 to the center of the road running West from the Town of Corvallis past the residence of J. P. Friedley, thence N. 71 deg. W. along the center of said road 26 70-100 chains, thence S. 19 deg. W. 18 10-100 chains, thence N. 88 deg. 30 min. E. 3 17-100 chains to the place of beginning and containing 34 85-100 (thirty-four and 85-100) acres in the County of Benton and State of Oregon, and known as the Starr place.

This tract of land was donated by the citizens of Benton County, Oregon, to the College while the same was under the control of the Methodist Episcopal Church South, and by them deeded to the College in 1886.

Tract No. 2.

JOHNSON FARM.

Purchased April 11, 1889.
Cost \$10,715.40. Present Value \$30,000.

Beginning at the N. W. corner of the original donation land claim of J. C. Avery and wife, it being claim No. 51 in T. 11 S., R. 5 W. Willamette Meridian, running thence South 14.70 chains to the North line of right of way of the Willamette Valley and Coast Railroad Company, thence following said line of right of way North 89 deg. West 39.65 chains to the West line of the donation land claim of Charles Johnson, North 30 chains, North 89 deg. 30 min. East 38.35 chains to East line of said claim, South 1 deg. 45 min. East 16.21 chains, North 88 deg. 30 min. East 68-100 chains to place of beginning, containing 119.06 acres, all lying and being situated in Benton County, State of Oregon.

Tract No. 3.

ADDITION TO JOHNSON FARM.

Purchased April 15, 1899.

Cost \$2000. Present Value \$4000.

Beginning at the South West corner of the Charles Johnson donation land claim in T. 11 S. R. 5 W. Willamette Meridian in the center of the Philomath Road, running thence north 27.76 chains to the South line of the right of way of the Willamette Valley and Coast Railroad, thence along the line of said right of way N. 88 deg. 20 min. East 9.08 chains, thence South 27.70 chains to the center of said Philomath Road, thence along the center line of said road South 89 deg. 40 min. West 9 chains to the point of beginning, containing 25 acres in Benton County, State of Oregon.

Tract No. 4.

ARNOLD TRACT.

Purchased April 19, 1899.

Cost \$1500. Present Value \$10,000.

Beginning 11.40 chains North of a point on the South boundary line of the original donation land claim of Joseph P. Friedley and wife, it being Claim No. 62 in T. 11 S. R. 5 W. Willamette Meridian in the center of the from the South East corner of said Claim, running thence North 4.20 chains, S. 70 deg. E. 12.50 chains, S. 18 deg. W. variation 19 deg. 30 min. East 4 chains, N. 70 deg. W. 11.23 chains to the place of beginning containing 4.27 acres more or less and designated in selling administrator's sale of James J. Friedley, deceased, as Lot number Three (3); the warranty herein is intended to cover all of said premises except 30 ft. off of the East side.

Tract No. 5.

COL. HOGG TRACT.

Purchased February 29, 1904.

Cost \$6000. Present Value \$30,000.

Beginning at the Northwest corner of the donation land claim of J. C. Avery and Martha Avery, his wife, from the United States Government and running thence South forty-two (42) rods along the West line of said land claim; thence North 88½ deg. East seventy-two and 68-100 (72.68) rods; thence North forty (40) rods; thence North 88½ deg. East sixty-eight (68) rods; thence North two (2) rods to the North line of said claim; thence South 88½ deg. West one hundred and forty and 68-100 (140.68) rods to the place of beginning, containing 19.92 acres in Benton County, Oregon, being the same premises conveyed to one T. Egerton Hogg by Lazarus Van Bibber by deed dated November 30, 1883 and recorded in the office of the Clerk of Benton County December 1, 1883.

Tract No. 6.

LEE TRACT.

Purchased November 21, 1905.

Cost \$6000. Present Value \$10,000.

Beginning 7.20 chains North of a point on the South boundary line of land Claim No. 62 in Township 11 South Range 5 West Willamette Meridian it being the original Donation Land Claim of Joseph P. Friedley and wife 11.17 chains from the South East corner of the same and running thence North 4.20 chains South 70 degrees, East 11.23 chains, thence South 18 degrees East variation 19 degrees 30 minutes East 4 chains, thence North 70 degrees West 9.90 chains to the place of beginning containing 4.31 acres (reserving right of way 30 feet wide along the East end of said tract used for a road) and all in Benton County, Oregon.

Tract No. 7.
PERNOT TRACT.

Purchased February 24, 1910.
Cost \$1250. Present Value \$1250.

Beginning at a point on the West line of the Donation Land Claim of Joseph P. Friedley and wife, it being Claim No. 62 Not. No. 937 in Township 11 South Range 5 West of the Willamette Meridian which is 1071.5 feet North 1 deg. 45 min. West from the most Southerly South West corner of said claim and running thence South 86 deg. 37 min. East 525.8 feet to a 1½ inch pipe driven in the ground at the South-east corner of a certain tract of land heretofore sold to John F. Allen, thence South 323.6 feet to the South-east corner of a certain tract of land conveyed by Amanda Friedley, administratrix, to Joseph Emerick by deed recorded at page 182 of Book "Q" Records of Deeds for Benton County, Oregon, thence West 508.86 feet to the West line of said Donation Land Claim, said point of intrsection being the South-west corner of a certain tract of land deeded by Amanda Friedley, Administratrix, to James Readman by deed recorded at page 225 of Book "Q" Deed Records of said County, thence North 1 deg. 45 min. West along said claim line to place of beginning, said place of beginning being marked by a 1 inch iron pipe driven in the ground, all in Benton County, Oregon.

Tract No. 8.
WILSON TRACT.

Purchased February 28, 1910.
Cost \$5500. Present Value \$5500.

Beginning at a point on the South boundary line of the Donation Land Claim of Joseph P. Friedley and wife, being Claim No. 62 in Township 11 South Range 5 West of the Willamette Meridian in Oregon, 6.56 chains from the Southeast corner of said claim and running thence South 88 deg. 30 min. West 4.61 chains; thence North 7.20 chains thence South 70 deg. East 4.955 chains thence South to the place of beginning containing 2.91 acres in Benton County, State of Oregon.

Tract No. 9.
WOODCOCK TRACT.

Purchased February 9, 1910.
Cost \$12,000. Present Value \$12,000.

Lots numbered one (1), two (2), seven (7), eight (8), nine (9), ten (10), and eleven (11) of Block numbered twenty (20), and also Blocks numbered twenty-one (21), twenty-two (22), twenty-three (23) and twenty-four (24) in Avery and Wells' Addition to the City of Corvallis, in Benton County, State of Oregon, as shown on the plat of said addition on file and of record in the office of the Recorder of Conveyances of said County.

Total number of acres purchased is 223.77 and the cost thereof to the College has been \$49,465.40. That the approximate value of the whole of said lands as estimated by the best informed is \$277,750.00.

I herewith submit a map showing the lands belonging to the College and indicating the lands belonging to private individuals, but lying within the boundaries of the lands belonging to the College, which is imperatively necessary the College should own in the near future.

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The Board of Regents entered into a contract with E. P. Pernot and the heirs of Prof. Coote, now deceased, to purchase the following described land, and to pay therefor the sum of \$2725.00, which payment is to be made as soon as money shall be provided by the Legislature of the State of Oregon, therefor, not later than the first day of August, 1911, to-wit:

The North half of the following described real property, to-wit:

Beginning at a point on the West line of the Donation Land Claim of Joseph P. Friedley and wife, it being Claim No. 62 Not. No. 937 T. 11 S. R. 5 West of Willamette Meridian, which is 1071.5 feet North 1 deg. 45 min. West from the most Southerly Southwest corner of said Claim, and running thence South 86 deg. 37 min. East 525.8 feet to a 1½ inch pipe driven in the ground at the Southeast corner of said tract of land heretofore sold to John F. Herrin, thence South 323.6 feet to the Southeast corner of said tract of land conveyed by Amanda Friedley, administratrix, to Joseph Emerick by deed recorded at page 182 of Book "Q", Records of Deeds for Benton County, Oregon, thence West 508.86 feet to the West line of said Donation Land Claim said point of intersection being the S. W. corner of said tract of land deeded by Amanda Friedley, administratrix, to James Readman by deed recorded at page 225 of Book "Q", Deed Records of said County, thence North 1 deg. 45 min. West along said Claim line to place of beginning, said point of beginning being marked by a 1 inch iron pipe driven in the ground, in Benton County, Oregon.

The Board also entered into a contract with L. W. Wilson to purchase the following tract of land at and for the sum of \$7,085, and to pay therefor as soon as money should be provided by the Legislature of the State of Oregon, not later than the first day of August, 1911, to-wit:

Beginning at a point on the South boundary line of the Donation Land Claim of Joseph P. Friedley and wife, being Claim No. 62 in T. 11 S. R. 5 West of Willamette Meridian, Oregon, which is 6.56 chains distant from the Southeast corner of said Claim and running thence North 88 deg. 30 min. East 3.39 chains thence North 18 deg. East 3.88 chains, thence North 70 deg. West 4.945 chains and thence South to the place of beginning all in Benton County, Oregon.

That the lands designated on the map as belonging to private individuals in addition to the two tracts last above mentioned should be purchased and owned by the College and it is to be hoped that the next Legislature will make provisions for the purchase of the same. The longer the purchase is deferred the greater will be the price necessary to be paid.

BUILDINGS.

The buildings belonging to the College and in use are as follows:

The ADMINISTRATION BUILDING was erected and donated by the people of Corvallis, Oregon, on the lands described in Tract No. 1 at a cost of \$25,000; said building is in a good state of repair and is probably of that value at the present time.

SCIENCE HALL was completed in the year 1902 and is sit-

uated on Tract No. 1. It is a three story Oregon gray granite and sandstone building 85x125 feet and is situated about one hundred and fifty yards South and East of the Administration Building. It has been used for agricultural and mechanical departments, but will be used in the future probably for chemistry alone. The total cost of said building was about \$50,000.

MECHANICAL HALL is situated about one hundred and fifty yards North and East of the Administration Building on Tract No. 1, erected at a cost of \$30,000.

CAUTHORN HALL is a dormitory for young men, erected at a cost of \$25,000.

ALPHA HALL. The building formerly known as Alpha Hall and used as a Girls' dormitory has been converted into and used for the purposes of teaching pharmacy. This building was erected at a cost of \$10,000.

WALDO HALL is a fine three story brick building, built and used as a dormitory for young women, erected at a cost of \$76,000.

MECHANIC ARTS BUILDING, erected for mechanical purposes and used for teaching mechanism of various kinds and character, erected at a cost of \$45,000.

POWER PLANT together with machinery connected therewith was erected at a cost of \$19,000.

AGRONOMY BUILDING is a three story brick building erected at a cost of \$35,000. In connection with, adjoining and being a part of the same building is now being completed a central agricultural building, at a contract cost of \$50,277.90.

BARNs. Dairy Barn is a frame structure, erected at a cost of \$15,000 complete.

Old barn of the value of \$2000.

MINING HALL is a stone and frame structure, erected at a cost of \$8,000.

COMMANDANTS' RESIDENCE is a frame building of small value, \$750.

LABORATORY used for mining purposes erected at a cost of \$4000.

HORTICULTURAL BUILDING, (old), erected at a cost of \$3,000.

Poultry Houses and Colony Houses of the value of \$6000.

Old Green Houses of the value of \$2000.

New Green Houses of the value of \$7336.69.

Grand Stand on athletic field, \$500.

Small frame building known as the Orchard House valued at \$1000.

Separate heating plants for Waldo Hall, Cauthorn Hall and Agronomy Building, \$12,000.

There is being constructed at the present time a heating plant at a contract cost of \$31,188.69. It is now nearing completion and will be ready for use by the time school begins in September of this year.

The old Gymnasium Building is a frame structure 70x120 feet, erected at a cost of \$10,000.

The new Armory Building, which is just completed, was erected at a cost of \$39,140.95. This building is of concrete, 150x320 feet, with steel roof.

EQUIPMENT.

The following is a summary of the equipment taken from inventory as carried on the College books:

President's Office	\$ 927.50	
Business Office	955.00	
Registrar's Office	142.50	
History Class Room	95.00	
Attendance Committee	12.50	
Military Department	131.00	
Agronomy	4891.72	
Animal Husbandry	1895.50	
Dairy Husbandry	4170.00	
Botany and Forestry	3612.55	
Horticulture	712.40	
Horticulture—Campus	791.60	
Commerce	2014.95	
Domestic Science and Art	2847.44	
Engineering:		
Mining	2151.00	
Electrical	3555.50	
Civil	2421.80	
Machine Shop	7510.03	
Mechanical	6723.45	
Woodwork Shop	6317.88	
Pharmacy	2453.75	
Zoology and Entomology	6821.10	
Bacteriology	1764.05	
Chemical	1119.00	
English	435.35	
Mathematics	253.00	
Modern Languages	178.80	
Music	1482.15	
Art	555.40	
Physics	2017.38	
Library	16160.80	
Physical Education	1640.05	
Power House	16059.35	
Printing	5239.35	
Experiment Station Chemical Laboratory.....	1782.50	\$112,610.93

STATIONS.

Farmers' Institutes. During the past year there were held forty institutes, with an aggregate attendance of 11,250. Two demonstration trains have been run in co-operation with the Southern Pacific and O. R. & N. Railroad Companies. These trains traversed a great portion of both the eastern and western part of the state and made stops at the principal places. It is estimated that the attendance at these trains amounted to 16,000 and over. By means of Farmers'

Institutes and the demonstration trains the College authorities came in contact with more than 27,000 people. The Farmers' Institutes are growing in popularity and much good is being accomplished thereby.

Station Bulletins and Circulars. There have been issued from the Station during the past year bulletins as follows :

- Bul. 106 Spraying for Peach Fruit Spot, Cordley and Cate.
- Bul. 107 Commercial Fertilizers and Insecticides, Bradley.
- Bul. 108 Insecticides and Fungicides, Cordley.
- Cir. 5 Thousand Headed Kale, Scudder.
- Cir. 6 Alfalfa in Western Oregon, Scudder.
- Cir. 7 Fire Blight of Pear and Apple, Jackson.
- Cir. 8 A circular of information for distribution on the Farming Demonstration Train in Eastern Oregon.

STATISTICS OF STUDENT ENROLLMENT 1909-1910.

1. Classified by Courses of Study—			
Agriculture	637		
Forestry	22		
Engineering and Mechanic Arts.....	390		
Commerce	150		
Domestic Science and Art	338		
Pharmacy	57		
Optional	18		
Music	81	1,693	
Less names counted twice.....		102	1,591
2. Classified by Residence—			
Total from Oregon (all counties represented)		1,443	
Other states and territories:			
Alaska	3		
California	23		
Colorado	5		
Idaho	10		
Illinois	5		
Indiana	3		
Iowa	2		
Louisiana	2		
Maine	1		
Minnesota	1		
Michigan	1		
Missouri	2		
Montana	2		
New Hampshire	1		
New Jersey	2		
New York	6		
Nevada	1		
North Dakota	1		
Ohio	1		
Pennsylvania	4		
Rhode Island	1		
South Dakota	1		
Utah	3		
Washington	49		
Wisconsin	4	135	
Foreign Countries			
British Columbia	1		
Canada	2		
China	1		
India	4		
Japan	3		
Newfoundland	2	13	1,591
Total number of men.....	1,111		
Total number of women.....	480		

GRADUATES JUNE 1910

Bachelor of Science in Agriculture—

Harry Asbahr	Cornelius, Oregon
Frank Ross Brown	Camas, Washington
Bliss Lucius Clark	Hood River, Oregon
LeRoy Breithaupt	Clackamas, Oregon
Homer Morton Cross	Hebo, Oregon
Clarence Cummings Dickson	Shedds, Oregon
Alexander William Dodge	Pasadena, California
Carl Francis Galligan	Hood River, Oregon
Perry Harlan McAlexander	Mt. View, California
Fred Samuel McCall	Salem, Oregon
Max Adams McCall	Scio, Oregon
Bhola Nath Pande	Dehra Dun, India
Ralph Waldo Rees	Newberg, Oregon
Jay Merritt Reynolds	LaGrande, Oregon
Ray Harland Roberts	Lebanon, Oregon
C. Howard Schartow	Toledo, Ohio
Raymond Seely	Sherwood, Oregon
Leland Hobart Spring	Lebanon, Oregon
Frank Benjamin Steen	Lebanon, Oregon
George Henry Thomas	Dee, Oregon
James Jay Thompson	Macleay, Oregon
Leighton Jay True	Corvallis, Oregon
George S. Zimmerman	Yamhill, Oregon

Bachelor of Science in Forestry—

Harold Dekum Gill	Portland, Oregon
Jack Francis Pernot	Corvallis, Oregon
Thurman J. Starker	Portland, Oregon
Sinclair Albert Wilson	Linnton, Oregon

Bachelor of Science in Domestic Science and Art—

Frances Alva Aitken	Portland, Oregon
Grace Monemia Bath	Hillsboro, Oregon
Beulah Beeler	Corvallis, Oregon
Hedwig S. Bleeg	Hillsdale, Oregon
Mary Enid Cate	Corvallis, Oregon
Grace Elizabeth Connell	Hillsboro, Oregon
Mabry Zerilda Currin	Heppner, Oregon
Anna Leta Edington	Corvallis, Oregon
Bertha Beulah Edwards	Monroe, Oregon
Beulah Gustavia Gilkey	Corvallis, Oregon
Agnes Goodrich	Dayton, Oregon
Bertha Emma Herse	Corvallis, Oregon
Ruth Jeanette Hess	Portland, Oregon
Laura Estella Jackson	Lorane, Oregon
Myrtle Lay	Molalla, Oregon
Esther Vestal Leech	Grants Pass, Oregon
Bessie Florence Parsons	Albany, Oregon
Katie Maysel Ridgeway	Buel, Oregon
Emily Fern Rodgers	Portland, Oregon
Alvhild Romtvedt	Toledo, Oregon
Ruth Thayer	Portland, Oregon
Laura Elsie VanMeter	Hoskins, Oregon
Lena May Wilson	Albany, Oregon

Bachelor of Science in Civil Engineering—

Torrey Lynn Austin	Liberty, Idaho
Elmer Dewitt Calvin	Amity, Oregon
Frank Wood Connell	Hillsboro, Oregon
Wren Clark Crews	Toppenish, Washington
Howard Cushman Cunningham	Ft. Klamath, Oregon
Robert Léroy Davidson	Union, Oregon
Alvin Finlay	Portland, Oregon
Joseph Allen Ganong	Oregon City, Oregon
Robert W. Nelson	Lafayette, Oregon
Howard O'Connor	Montague, California
Charles Percy Richards	Asotin, Washington
Adolph Harry Schmidt	The Dalles, Oregon
Richard William Skibbe	The Dalles, Oregon
Owen Hancock Test	Ontario, Oregon
Chester Andrus Vincent	St. Johns, Oregon

Bachelor of Science in Electrical Engineering—

Everett Monroe Billings	Union, Oregon
Latimer Hobart Booth	Mt. Hood, Oregon
Harry David Bowman	Hillsboro, Oregon
Cloe Allen Burris	Caldwell, Idaho
Fred Edgerton Ewart	Portland, Oregon
Russell Harrison Fleser	Union, Oregon
Vincent Paul Gianella	Honcuit, California
Wallace Going	Portland, Oregon
Julius Gordon	Portland, Oregon
Wayne Carl McLagan	Tangent, Oregon
Frederick Eugene Pernot	Corvallis, Oregon
John C. Plankington	Dallas, Oregon
Joel William Powell	Hood River, Oregon
Horace Minor Propst	Albany, Oregon
Roy Eugene Rawson	Vancouver, Washington
Edgar Adolph Sorenson	Springfield, Oregon
Lester Eugene Stutz	Redwood City, California
John Oscar Vines	Vale, Oregon
Floyd James Williams	Roselawn, California

Bachelor of Science in Mechanical Engineering—

Henry Bergman	Gardiner, Oregon
Otto Karl Blackaby	Ontario, Oregon
John Donald Lines	Albany, Oregon
Harold Dickson Marsh	Portland, Oregon
Edwin Wheeler Wallace	Independence, Oregon

Bachelor of Science in Mining Engineering—

Albert George Emil Abendroth	Portland, Oregon
Urie Eugene Brown	Shedds, Oregon
Malcolm Robert Cox	Corvallis, Oregon
Extra Stephen Dixon	Forest Grove, Oregon
Harry John Evans	Bourne, Oregon
Siegfried Maurer	Eugene, Oregon
Glenn Kenneth McKenzie	Kalama, Washington
John Armour Muldrick	Canyon City, Oregon
Edgar George Pickler	LaGrande, Oregon
Donald Hefley Rowe	Portland, Oregon
Frank Wilson Thompson	Burns, Oregon

Bachelor of Science in Pharmacy—

Emil Elmo Carroll	Union, Oregon
Lyle Vallington Hendricks	McMinnville, Oregon
John Frederick Ketels	Portland, Oregon
Richard Percy Landis	Albany, Oregon
Frank M. Moore	Ashland, Oregon
Gordon Rosendorf	Corvallis, Oregon
Walter Earle Sears	McCoy, Oregon
William Thomas Stratton	Hamilton, Montana

Bachelor of Science in Commerce—

Edith Hazel Casteel	Yaquina, Oregon
Bertha Leona Cramer	Corvallis, Oregon
Mary Louvia Davis	Corvallis, Oregon
Minnie Diven	Vale, Oregon
Frances Huston	Kalispell, Montana
Leland Barton Howey	Coquille, Oregon
Frederick Emmett McGrew	Portland, Oregon
Gertrude Elizabeth McHenry	Corvallis, Oregon
Ivy Cecil Peterson	Beaverton, Oregon
Irving Province	Mitchell, Oregon
Edison Blaine Stanley	Lone Rock, Oregon
Arthur M. Weatherford	Dayton, Washington

Master of Science in Agriculture—

Glen DeHaven	Rickreall, Oregon
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Master of Science in Domestic Science and Art—

Vesta Kerr	Corvallis, Oregon
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Master of Science—

A. Louis Briggs	Albany, Oregon
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Electrical Engineering—

William Harling Davolt	Kelso, Washington
Mulk Raj Soi	Batala, India

GENERAL CONDITIONS.

During the year 1909-1910 there was built an Armory 320x160 feet. The material used in this structure was concrete and steel, completed at a cost of \$39,140.95. This is a most excellent building for the purposes intended and will answer the wants of the institution for many years.

There is now in construction a heating plant at the contract cost of \$31,188.69, including tunnel and machinery, being built of concrete and will be completed before September, 1910. This structure stands south of the new armory and near to railroad communication so the fuel can be readily and easily obtained. It is to be supplied with proper boilers and heating appliances.

The Central Agricultural Building is nearing completion and will be ready for occupancy by September, 1910. The material used in the building is brick, the building is four stories in height and 120 ft. x 72 ft. in size. When completed it will be a very valuable addi-

tion and one much needed in the institution, and will relieve the congested condition heretofore existing in the Agricultural Hall; this, however, will be used in the future principally for chemistry and allied sciences.

Also there was completed during this year, green houses, which are situated south of the Central Agricultural Building, at a cost of \$7,336.69.

All of the buildings on the Campus are in reasonably good condition, and except slight repairs now and then and painting, will not require a great expenditure for some time.

The \$20,000 appropriated by the last Legislature to buy additional property, has been expended as shown above. It will require additional appropriations, however, to purchase more and much needed lands that are so situated and surrounded by the College properties, that it is imperative that the same should belong to the institution.

The Board of Regents knowing the urgent necessity of securing certain tracts of land situated so that it would be of vital importance to the College, have secured options on two small tracts as stated above, depending, however, upon the appropriations to be made by the Legislature of 1911. There are other tracts adjoining the ones upon which we have options, that the College should make every effort to secure.

The year just closed has been the most successful in the history of the institution. The enrollment is the largest, amounting to 1591 as against 1351 enrolled for the year 1909, coming from every county in the state and from outside states.

During the Commencement week, the College in a fitting and proper manner, celebrated its Quarter-Centennial as a State institution. The exercises were very largely attended by alumni, patrons, pupils and friends from all parts of the State, and the exercises were such as to reflect credit upon those taking part in them.

The members of the graduating classes of 1909, 1910, 1911 and 1912 erected on the Campus in an appropriate place and at a cost of \$350 and iron Flag Pole, and a concrete Bandstand at a cost of \$2000 and presented them to the College as a memento of their loyalty and devotion to the College.

The officers and members of the Faculty, during the past year, labored earnestly and zealously in their several departments and their work has been rewarded by the commendation of the public.

For a more detailed statement of the financial condition, I refer to the report of Hon. B. F. Irvine, Treasurer, hereto annexed.

A synoptical report of the Director of the Experiment Station is also attached.

Most respectfully submitted,

J. K. WEATHERFORD,

President of the Board of Regents.

TREASURER'S REPORT, 1910

CORVALLIS, OREGON, July 15, 1910.

To the Honorable Board of Regents,
Oregon Agricultural College.

Gentlemen:—Herewith I submit my report for the year ending June 30, 1910. The vouchers and other evidences of payment are on file in the office of the Financial Secretary.

Very respectfully,

B. F. IRVINE,

TREASURER.

FINANCIAL STATEMENT

GENERAL MAINTENANCE RECEIPTS.

State Appropriation for Maintenance.....	\$65,000 00
Federal Maintenance (Morrill).....	40,000 00
Land Grant Interest.....	12,115 15

SALES.

Miscellaneous.....	\$ 602 75	
Domestic Science.....	15 00	
Mechanic Arts.....	88 47	
Dairy Husbandry.....	593 96	
Horticulture.....	55 00	1,355 18

Revolving Fund.....		424 45
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FEES AND DEPOSITS.

Cauthorn Hall.....	1,133 46	
Waldo Hall.....	825 00	
Entrance.....	5,100 00	
Accounting.....	337 50	
Agronomy.....	126 50	
Bacteriology.....	24 00	
Chemistry.....	2,976 50	
Electrical Engineering.....	374 00	
Dairy Husbandry.....	334 50	
Domestic Science and Art.....	973 00	
Mechanical Engineering.....	151 00	
Pharmacy.....	319 00	
Stenography and Typewriting.....	266 00	
Zoology.....	252 50	
Physical Education.....	1,909 25	
Mining Engineering.....	326 50	
Shops.....	1,894 00	
Art.....	201 00	
Penmanship.....	15 00	
Forestry and Botany.....	224 50	
Civil Engineering.....	149 25	
Physics.....	351 75	
Unclassified.....	85 08	
Horticulture.....	72 00	
Diplomas.....	610 00	
Theses.....	38 50	19,536 79

Light, Heat and Water.....	415 32	
Rentals.....	275 00	
Institute, per Diem.....	1,477 00	
Eastern Oregon Experiment (Union).....	1,454 97	3,622 29

Grand Total.....		\$142,053 86
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GENERAL MAINTENANCE DISBURSEMENTS.

MAINTENANCE	MORRILL	MAINTENANCE	INTEREST	TOTALS
Salaries.....	(Morrill \$40,000 00)	\$39,255 98	\$17,423 49	
Labor.....		7,539 34		
Supplies.....		10,581 44		
Fuel.....		4,756 08		
Insurance.....		165 54		
Light and Power.....		1,358 36		
Telephone and Telegraph.....		693 19		
Printing and Advertising.....		5,807 03		
Water Tax.....		1,139 35		
Traveling Expenses.....		1,460 39		
Incidental Expenses.....		403 95		
REPAIRS				
Buildings.....		755 03		
Equipment.....		26 44		
EQUIPMENT				
Furniture.....		42 42		
Machines and Imptements.....		146 94		
Scientific Apparatus.....		57 61		
Unclassified.....		11 94		
IMPROVEMENT				
Buildings.....		210 05		
Campus and Water Works.....		467 85		
Shops and Barns.....		53 00		
Light, Heat and Power Plant.....		2 00		
Miscellaneous.....		419 82		
MISCELLANEOUS				
Experiment Station.....		3,100 00		
Refunded Fees.....		2,200 00		
	(Morrill) 40,000 00	80,653 75	17,423 49	138,077 24
			Deficit 1908-09.....	3,397 23
				141,474 47
		Receipts.....	\$142,053 86	
		Expenditure.....	141,474 47	
		Balance.....	\$ 579 39	

SPECIAL STATE APPROPRIATION.

1909—1910.

Expenditures for fiscal year ending June 30, 1910

	APPROPRIATION	EXPENDED	BALANCE
EQUIPMENT.....	\$ 60,000 00	\$ 52,736 45	\$ 7,263 55
BUILDINGS.....	130,000 00		
Armory.....		36,147 17	
Heating Plant.....		14,574 50	
Agricultural Hall.....		36,432 65	
Green Houses.....		5,812 23	
Miscellaneous.....		650 00	
		Total paid on contracts to date on buildings, \$93,616 55	36,383 45
LAND.....	\$ 20,000 00	\$ 20,000 00	
	Balance with State Treasurer.....		\$ 43,847 00

OREGON AGRICULTURAL EXPERIMENT STATION.

In account with

The United States Appropriations, 1909-1910.

DR.	HATCH FUND.	ADAMS FUND.
To annual appropriation from		
Treasurer of United States	\$15,000.00	\$13,000.00
CR.		
By Salaries	\$11,056.52	\$ 6,416.29
Labor	2,064.91	2,223.85
Publications	138.90
Postage and Stationery	234.04	116.74
Freight and Express	37.77	82.24
Heat Light and Power	12.20	190.59
Chemical Supplies	60.75	957.79
Seeds, Plants and Sundry Supplies ..	476.87	524.90
Fertilizers	8.95	.30
Feeding Stuffs	789.39	942.78
Library	35.90	33.91
Tools, Implements and Machinery ...	5.30	156.80
Scientific Apparatus	179.28
Live Stock	27.00
Traveling Expenses	19.10	899.53
Contingent Expenses	30.00
Buildings and Land	2.40	275.00
	<hr/>	<hr/>
Totals	\$15,000.00	\$13,000.00

OFFICERS OF ADMINISTRATION AND INSTRUCTION
DURING YEAR 1909-10.

NAME AND OFFICIAL POSITION	SALARIES		
	STATION	COLLEGE	TOTAL
William Jasper Kerr, D. Sc., President	\$ 500 00	\$ 4500 00	\$ 5000 00
James Withycombe, M. Agr., Director of Experiment Station	2100 00	400 00	2500 00
Arthur B. Cordley, M. S., Dean School of Agriculture	1200 00	800 00	2000 00
Grant A. Covell, M. E., Dean School of Engineering		2000 00	2000 00
Juliet Greer, A. B., Dean School of Domestic Science and Art		2000 00	2000 00
John A. Bexell, A. M., Dean School of Commerce		2000 00	2000 00
Frederick Berchtold, A. M., Prof. English Language and Literature		1600 00	1600 00
John B. Horner, A. M., Litt. D., Prof. History and Political Science		1600 00	1600 00
Gordon V. Skelton, C. E., Prof. Civil Engineering		1700 00	1700 00
Edward Ralph Lake, M. S., Prof. Botany and Forestry		1700 00	1700 00
George W. Peavy, M. S., Prof. Forestry		1800 00	1800 00
John Fulton, M. S., Prof. General and Analytical Chemistry		1700 00	1700 00
Thomas H. Crawford, A. M., Prof. Commercial Law		1500 00	1500 00
Claude I. Lewis, M. S. A., Prof. Horticulture	1600 00	400 00	2000 00
Fred L. Kent, B. Agr., Prof. Dairy Husbandry	1000 00	400 00	1400 00
Charles L. Johnson, B. S., Prof. Mathematics		1600 00	1600 00
Emile F. Pernot, M. S., Prof. Bacteriology	1300 00	400 00	1700 00
Clarence M. McKellips, Ph. C., Prof. Pharmacy		1600 00	1600 00
Gerard Taillandier, Prof. Modern Languages		1600 00	1600 00
U. G. McAlexander, Capt., Prof. Military Science and Tactics		1000 00	1000 00
James Dryden, Prof. Poultry Husbandry	1500 00	500 00	2000 00
Henry D. Scudder, B. S., Prof. Agronomy	1250 00	550 00	1800 00
Henry M. Parks, B. S., E. M., Prof. Mining Engineering		2000 00	2000 00
Thomas M. Gardner, M. M. E., Prof. Electrical Engineering		1800 00	1800 00
Emmett D. Angell, Prof. Physical Education		1800 00	1800 00
William F. Gaskins, B. S., Director School of Music (Depends on Fees)			
William A. Jensen, Recorder of the Faculties, Secretary to President		1600 00	1600 00
William Robinson Boone, Prof. Piano (Depends on Fees)			
Ida B. Callahan, B. S., Assistant Prof. English Language and Literature		1100 00	1100 00
Farley D. McLouth, B. S., Assistant Prof. of Art		1300 00	1300 00
Mark C. Phillips, B. M. E., Assistant Prof. Mechanical Engineering		1350 00	1350 00
Ida A. Kidder, A. B., B. L. S., Librarian	200 00	800 00	1000 00
Nicholas Tartar, B. S., Assistant Prof. Mathematics		1100 00	1100 00
Charles A. Cole, M. S., Assistant Prof. Pomology	800 00	400 00	1200 00
Willibald Weniger, Ph. D., Assistant Prof. Physics		1400 00	1400 00
Arthur L. Peck, B. S., Assistant Prof. Landscape Gardening		1400 00	1400 00

OFFICERS OF ADMINISTRATION AND INSTRUCTION
DURING YEAR 1909-10. (Continued)

NAME AND OFFICIAL POSITION	SALARIES		
	STATION	COLLEGE	TOTAL
John C. Bridwell, B. S., Instructor Zoology and Entomology	300 00	900 00	1200 00
Harry L. Beard, B. S., Instructor Mathematics		1000 00	1000 00
Loren B. Baldwin, A. M., Instructor in English		1100 00	1100 00
Earl V. Hawley, B. S., Instructor Electrical Engineering		1000 00	1000 00
William M. Porter, Instructor in Forging		800 00	800 00
Elmer P. Jackson, B. S., Foreman in Carpentry		1350 00	1350 00
Marion S. Van Liew, Instructor in Domestic Science		1000 00	1000 00
Ariel M. Ewing, Instructor in Domestic Art		1000 00	1000 00
Helen H. Tobin, Instructor in Domestic Art		1200 00	1200 00
Erwine L. Potter, B. S., Instructor Animal Husbandry	400 00	800 00	1200 00
Carl L. Knopf, M. E., Instructor Mechanical Engineering		1100 00	1100 00
Fletcher A. Gould, B. S., Instructor Civil Engineering		1000 00	1000 00
Ralph D. Hetzel, A. B., LL. B., Instructor Public Speaking and Debating		1400 00	1400 00
Winifred Williams, B. Ph., Instructor English and Physical Education		1100 00	1100 00
Edward B. Beaty, B. S., Instructor in Mathematics		1000 00	1000 00
George R. Hyslop, B. Sc., Instructor in Agronomy	500 00	700 00	1200 00
Earle P. Harding, B. S., Instructor Pharmacy and Chemistry		840 00	840 00
Genevieve Baum-Gaskins, Instructor in Voice (Depends on Fees)			
Adina Green, Instructor in Art		840 00	840 00
Nettie M. Flinn, Instructor Piano and Violin (Depends on Fees)			
Myrtle C. Van Deusen, Instructor Domestic Science		1000 00	1000 00
Otto G. Simpson, B. S., Instructor Dairy Husbandry	400 00	440 00	840 00
Renton K. Brodie, B. S., Instructor in Chemistry		800 00	800 00
*Herbert Edward Cooke, B. S., Instructor Mining Engineering			
*Clarence C. Vincent, Instructor Horticulture			
Herbert S. Jackson, A. B., Research Assistant in Plant Pathology	1500 00		1500 00
Laura Hill-Griffin, B. S., Assistant in Zoology and Entomology	300 00	300 00	600 00
†Alice L. Edwards, B. S., Assistant in Zoology and Entomology	300 00	300 00	600 00
Milo R. Daughters, A. M., Instructor General and Analytical Chemistry		1200 00	1200 00
A. L. Briggs, Instructor in Mathematics		800 00	800 00
Fred L. Griffin, B. S., Instructor in Zoology and Entomology	560 00	280 00	840 00
Samuel H. Graf, E. E., Instructor in Mechanical Drawing		840 00	840 00
Wilford W. Gardner, C. E., Instructor in Civil Engineering		840 00	840 00
Arthur G. Bouquet, B. S., Instructor in Horticulture (salary for 10 months)	400 00	400 00	800 00
Robert Henry Rodgers, B. S., Instructor in Pattern Making		800 00	800 00

*On leave of absence.

†Succeeded Laura Hill-Griffin.

OFFICERS OF ADMINISTRATION AND INSTRUCTION
DURING YEAR 1909-10. (Continued)

NAME AND OFFICIAL POSITION	SALARIES		
	STATION	COLLEGE	TOTAL
Myrtle E. Knepper, Assistant Librarian		720 00	720 00
E. R. Shepard, A. M., Instructor Physics and Electrical Engineering (10 mo.)		833 33	833 33
George C. Mathews, Instructor in English (salary for 10 months)		833 33	833 33
Emmett C. Moore, Instructor in Commerce (salary for 10 months)		875 00	875 00
Gertrude E. McElfresh, A. B., Instructor in English (salary for 10 months)		833 33	833 33
Anna G. Saby, M. A., Instructor in Latin and Spanish		1200 00	1200 00
W. L. Powers, Instructor in Agronomy (salary for 10 months)		790 67	790 67
Sidney Willis French, E. M., Instructor in Mining Engineering		1000 00	1000 00
†Stella Newman, Instructor in Latin (Salary 2½ months)		145 00	145 00
†Florence Bowden, Instructor in Latin (Salary 4½ months)		135 00	135 00
J. G. Arbuthnot, Instructor Physical Education (Salary 6 months)		450 00	450 00
Glen DeHaven, B. S., Assistant in Bacteriology	400 00	200 00	600 00
Helen Gilkey, B. S., Assistant in Botany		484 00	484 00
Frances Huston, Assistant in Physical Education for Women		300 00	300 00
Alfred G. Lunn, Assistant in Poultry Husbandry		225 00	225 00
Edward C. Calloway, B. S., Assistant in Pharmacy (salary for 10 months)		513 00	513 00
James Koebe, B. S., Assistant in Agronomy (salary for 10 months)		270 00	270 00
E. A. Hudson, B. S., Assistant in Mechanical Drawing		270 00	270 00
Ina True, Assistant Librarian (Salary for 6 months)		180 00	180 00
Fred Ewing, B. S., Assistant Zoology and Entomology (Salary 5 months)	300 00		300 00
Lena May Wilson, Assistant in Botany (Salary 4½ months)		45 00	45 00
Jaunita Rosendorf, Assistant Registrar		780 00	780 00
E. E. Wilson, Secretary Board of Regents		400 00	400 00
B. F. Irvine, Treasurer Board of Regents		600 00	600 00
W. Horace Kerr, Manager Business Office	500 00	700 00	1200 00
George B. Keady, Foreman Printing Plant		1200 00	1200 00
Ellsworth Erwin, Head Janitor		1100 00	1100 00
* J. H. Edwards, Head Janitor		900 00	900 00
John A. Spangler, Foreman Power and Heating Plant	45 00	555 00	600 00
‡ John G. Taylor, Foreman Power and Heating Plant	45 00	555 00	600 00
J. A. Gilkey, Campus Foreman		600 00	600 00
Otto F. L. Herse, Assistant Printer	500 00	500 00	1000 00
Violet Hancock, B. S., Stenographer		600 00	600 00

†Deceased.

‡Succeeded Stella Newman.

*Succeeded Ellsworth Erwin.

‡Succeeded John Spangler.

OFFICERS OF ADMINISTRATION AND INSTRUCTION
DURING YEAR 1909-10. (Continued)

NAME AND OFFICIAL POSITION	SALARIES		
	STATION	COLLEGE	TOTAL
Mary Anne McCoy, College Clerk and Stenographer		720 00	720 00
*Dorothy Yegan, College Clerk and Stenographer		720 00	720 00
Harry Hetzel, Clerk Registrar's Office		660 00	660 00
May Workinger, General Stenography Work (Salary 2 months)		80 00	80 00
Pearl Leonard, Bookstore Clerk (Salary from Bookstore)			600 00
Mabel Cady, Business Office Stenographer		600 00	600 00
S. A. Tharp, Assistant Janitor		600 00	600 00
M. D. Hall, Assistant Janitor		600 00	600 00
Charles E. Bradley, M. S., Prof. Agricultural Chemistry	1700 00		1700 00
Herman V. Tartar, B. S., Assistant Chemist	1300 00		1300 00
Bert Pilkington, B. S., Assistant Chemist	1000 00		1000 00
Lyman Bundy, Assistant Chemist	720 00		720 00
A. Applewhite, B. S., Foreman College Farm	840 00		840 00
Helen Holgate, B. S., Station Clerk	900 00		900 00
Robert Withycombe, B. S., Superintendent Union Station	1600 00		1600 00
P. H. Spillman, B. S., Assistant in Horticulture, Union Station	900 00		900 00
Ralph W. Allen, B. S., Superintendent Hermiston Station	1200 00		1200 00
H. J. C. Umberger, Superintendent Drain Farm Station	1600 00		1600 00
E. J. Kraus, B. S., Research Assistant in Horticulture	1400 00		1400 00

*Succeeded Mary Anne McCoy.

AGRICULTURAL EXPERIMENT STATION

REPORT OF THE DIRECTOR

*To the President,
Oregon Agricultural College.*

SIR:

I have the honor to submit herewith a synoptical report of the Experiment Station for the year ending June 30, 1910.

As a result of the phenomenal development of agriculture throughout the State, demands upon Station workers have been so great that we find it impossible to adequately meet the same. It is imperative that supplemental funds be provided to meet the pressing needs of the Experiment Station. The field of horticulture is constantly presenting new problems that require men and means for their proper solution. In highly specialized horticultural districts it is practically necessary to keep experts in the field constantly during the growing season. Under proper encouragement and protection the horticultural output of the State should reach mammoth proportions within a few years, thus money expended for the legitimate promotion of the industry will prove to be a good investment for the State.

Animal Husbandry is also a neglected industry upon many Oregon farms. Experiments giving definite results as to the feasibility of growing and finishing economically upon Oregon farms more live stock would be of great indirect value to the commercial interests of the State.

The great need of the Station is for more land and live stock and larger funds to enable the Experiment Station to undertake systematically the scientific investigation of the many problems confronting the agricultural interests of the State.

Despite lack of funds, the Experiment Station during the past year has accomplished much valuable work. The staff has worked in harmony and as a unit for the betterment of agricultural conditions.

The question of correspondence is constantly becoming a most serious problem. During the last year the different departments of the Station answered ten thousand letters. This takes much time and thought and sooner or later must be provided for in some other manner, perhaps through an Extension Department.

A brief summary of the major work of the departments is herewith submitted:

DEPARTMENT OF HORTICULTURE.

Adams Act.

Pollination of the apple.

Irrigation investigations.

Hatch Fund.

Varietal tests of a large number of small fruits.

Cultural methods for orchards, including winter cover crops.

Co-operative work with orchardists in planting, pruning and conducting variety tests.

DEPARTMENT OF ENTOMOLOGY.

Adams Act.

An exhaustive investigation as to the efficiency of lime-sulphur spray for controlling apple-scab and San Jose scale.

Hatch Fund.

Investigations of peach spot, potato diseases and various orchard and crop pests.

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY.

Adams Act.

An investigation of apple-tree anthracnose and the Gummosis of the cherry.

Cherry tree gummosis has baffled the best scientific skill for a number of years. This department, however, has finally discovered and succeeded in isolating an organism which is believed to be largely responsible for the difficulty.

Hatch Fund.

Preliminary work for a plant disease survey of the state.

DEPARTMENT OF CHEMISTRY.

Adams Act.

Soil leaching experiments and an exhaustive hop investigation. The better grade of Oregon hops is found to be very rich in resins and for strength compare well with the choice European samples. The failure of old yards is found to be largely due to the exhaustion of the humus through clean cultivation, and the winter cover crop promises to be as valuable for maintaining the supply of nitrogen and humus as in the orchards.

Hatch Fund.

General chemical work relating to the various experiments in other departments, such as feeding experiments, incubation problems and soil investigations.

DEPARTMENT OF POULTRY HUSBANDRY.

Adams Act.

Incubation investigations. This consists of an exhaustive study of the mortality of incubator chicks, and other important problems relating to artificial incubation.

Hatch Fund.

An exhaustive study of artificial vs. natural incubation; experimental investigation of the different systems of brooders and the experimental feeding of poultry for laying and meat production.

DEPARTMENT OF AGRONOMY.

Hatch Fund.

The work of this department consists largely of securing desirable types of kale and corn, by means of selection; a study of various cultural methods for crop production and moisture conservation.

Co-operative work in irrigation with the Irrigation Division of the

U. S. Department of Agriculture is conducted by this department. This comprises a pumping plant installed by the general government by means of which alfalfa, clover, potatoes and corn are irrigated. Unirrigated check plats of the same crops are also maintained. Results are largely in favor of irrigation.

DEPARTMENT OF DAIRY HUSBANDRY.

Much technical and practical work of this department that would be of general interest to the dairy industry cannot be undertaken on account of a want of funds. There has, however, been considerable valuable work done in experimental feeding of the dairy herd and a study of its influence upon milk production.

DEPARTMENT OF BACTERIOLOGY.

Hatch Fund.

A large number of miscellaneous pathological specimens of bacterial diseases of live stock are constantly reaching this department. In addition to this large amount of routine work much original scientific investigative work has been undertaken with nitrogen fixing organism of plants and a study of the organism thought to be largely responsible for the mortality of incubator chicks.

DEPARTMENT OF ANIMAL HUSBANDRY.

Hatch Fund.

The major work of this department during the past year consisted of the experimental feeding of hogs. Nine experiments were conducted and results will be published in bulletin form.

EASTERN OREGON EXPERIMENT STATION.

This Station is doing a class of work that should be immensely valuable to the more humid sections of Eastern Oregon. The work of the Station in plant breeding by means of selection and cross pollination is giving excellent results. A number of new and what promise to be valuable barleys have been developed; also wheats and hay and pasture grasses. In addition to the general work in agronomy, excellent results have been secured with fattening hogs on peas grown as a rotation crop with wheat production.

The Grande Ronde Valley should be an ideal hog raising section, hence it is the purpose of the Station to encourage this industry by means of practical demonstrations and by the development of a heavy yielding barley which will furnish an inexpensive grain food.

Since the establishment of the Horticultural Department of the Eastern Oregon Station much work of especial interest to orchardists has been accomplished. This consisted of an Orchard Survey of the Grande Ronde Valley, and investigation of the cherry worm, pear blight and experimental spraying for the codling moth. This department has been very helpful to fruit growers in many ways, such as giving information regarding modern cultural methods, spraying, pruning, grafting, varieta; tests, etc.

THE EXPERIMENTAL FARM AT MORO.

Perhaps the greatest agricultural problem confronting the nation today is that of dry farming. It is indeed timely and fortunate that the State of Oregon has established this farm for the purpose of demonstrating correct systems of dry farming. The farm is well situated in a typi-

cal dry farm section and is in every way admirably suited to the work.

Although active operations were commenced late in the season much valuable work is under way. This consists mainly of a study of various cultural methods with conservation and utilization of moisture as the principal purpose of the investigation, variety tests of grains and other forage plants, moisture determinations and a soil survey of the farm.

Later it is contemplated to introduce animal husbandry to definitely determine, if possible, that live stock can be profitably maintained upon the wheat farms of the Columbia River basin.

UMATILLA EXPERIMENT FARM.

It is indeed highly gratifying to note the splendid progress of this demonstration farm. Although established but little over a year, results have already been reached that are of great value to the settlers of this project. Much valuable primary work has been done in clearing the land and holding the shifting sandy soil until an experimental orchard and garden have been established. At this time in addition to important experimental work on the application of water and a study of correct cultural methods, there are under test:

- 47 varieties of apples
- 14 varieties of pears
- 7 varieties of quinces
- 19 varieties of prunes and plums
- 10 varieties of sour cherries.
- 15 varieties of sweet cherries
- 4 varieties of nectarines
- 13 varieties of apricots
- 45 varieties of peaches
- 25 varieties of grapes
- 5 varieties of dewberries
- 7 varieties of currants
- 7 varieties of gooseberries
- 13 varieties of raspberries
- 15 varieties of blackberries
- 11 varieties of potatoes
- 4 varieties of corn

There are also a number of varieties of watermelon, squash, tomato, cucumber and many other vegetables.

It is very important that these variety tests be made as the district is entirely new and there is no data whatever as to the varieties of fruits and vegetables best suited to the locality.

FARMERS' INSTITUTES AND DEMONSTRATION TRAINS.

The interest in Farmers' Institutes is steadily growing and it is rapidly becoming a problem for the Station to meet the demand for Institute workers. It would seem well that at the earliest financial opportunity an Agricultural Extension Department be created which would have charge of all Institute work and at the same time attend to much of the general correspondence of the Station.

Farmers' Institutes held from June 30, 1909, to July 1, 1910:

No.	Sessions.	Attendance.
40	64	11250
Demonstration trains:		
	Stops.	
2	36	16325
Total attendance, Farmers' Institutes and Demonstration Trains		27575

GAYLORD BROS.
MAKERS
SYRACUSE, - N.Y.
PAT. 1,111,871, 1909



