

The projects listed below have been undertaken since May 1st, 1917, with the ANNUAL REPORT COUNTY AGRICULTURAL AGENT
WHATCOM COUNTY, WASHINGTON.
MAY 1st TO DECEMBER 1st, 1917.

Harry B. Canwell Jr.

The Office of County Agricultural Agent in Whatcom County, State of Washington, was established May 1st, 1917, and at that time I took up the duties pertaining to that office.

I found localities in the county where considerable opposition to the work prevailed at first, but at present much of this feeling has been over come and this office is receiving good co-operation throughout the county.

I found the county quite well organized, there being seventeen Granges, one Equity Society, four Co-operative Creameries, three privately owned Creameries, two Condensaries, and three Fruit Canneries.

The principal line of farming in Whatcom County is dairying, the last tax roll showing 16,170 milch cows, and 10,780 yearlings. Other than dairying, fruit growing and poultry raising are the more important agricultural industries.

Very few hogs and sheep are being raised at present in this county due to the fact that the majority of the farmers sell milk to the condensaries and the idea prevails that sheep are not successful. The swine and sheep industry can be greatly increased and is being strongly advocated by this office. Already one farmer has increased his flock by the purchase of fifty ewes. There are only a few pure bred stallions in the county, but these are of good quality and will help to build up the horse industry.

By careful investigation and reports received from cattle breeders in the county, there are 258 pure bred bulls in service. This is an excellent showing because there are only 464 bulls in the county of servicable age.

The principal crops grown in the county are oats, peas, vetch, wheat, barley, spelts (Emmer) corn, legumes hay, timothy hay, mangels, potatoes and garden truck. A large acreage is planted each year for silage.

Due to the fact that this office was established late in the spring, it was impossible for the County Agricultural Agent to assist many of the farmers with their crop rotations and soil culture; however, many inquiries for help were received.

The chief lines of work carried on by the office to date pertain to dairying, organization work, soil work, crops, and animal and plant diseases. I feel that the most good can be accomplished if the County Agricultural Agent does not attempt too much construction work at first, and gains the best knowledge of local conditions by showing his willingness to co-operate with the most efficient farmers in his county. By doing so he is received as a co-worker and gains the confidence of the farmers who might otherwise be antagonistic towards the work.

PROJECT NO. 1.

The projects listed below have been undertaken since May 1st, 1917, with the following results:

By way of War Preparedness, it may be said that much war being declared, this county has been organized. The county has been organized by organizing the county. (a) War Preparedness (b) Potato Association (c) Grading and Marketing (d) County Agricultural Council (e) Jersey Cattle Club (f) Whatcom County Egg and Poultry Association.

Through the efforts of the county, the county has been organized. The county has been organized by organizing the county. (a) War Preparedness (b) Potato Association (c) Grading and Marketing (d) County Agricultural Council (e) Jersey Cattle Club (f) Whatcom County Egg and Poultry Association.

At this time the county has been organized. The county has been organized by organizing the county. (a) War Preparedness (b) Potato Association (c) Grading and Marketing (d) County Agricultural Council (e) Jersey Cattle Club (f) Whatcom County Egg and Poultry Association.

That a more complete list of projects might be obtained, the county has been organized. The county has been organized by organizing the county. (a) War Preparedness (b) Potato Association (c) Grading and Marketing (d) County Agricultural Council (e) Jersey Cattle Club (f) Whatcom County Egg and Poultry Association.

(b) Increased Food Production (c) Crop Pests (d) Excursion to Puyallup (e) Fair Work (f) Liberty Loan Work (g) Hoover Pledge Card Campaign.

At a meeting called by the county, the county has been organized. The county has been organized by organizing the county. (a) War Preparedness (b) Potato Association (c) Grading and Marketing (d) County Agricultural Council (e) Jersey Cattle Club (f) Whatcom County Egg and Poultry Association.

(b) Increased Food Production (c) Crop Pests (d) Excursion to Puyallup (e) Fair Work (f) Liberty Loan Work (g) Hoover Pledge Card Campaign.

PROJECT NO.1. ORGANIZATION

(a) War Preparedness.

By way of War Preparedness, it may be said that upon war being declared, this county realizing the work to be accomplished, began preparations to assist the government in its preparedness campaign; first by organizing the county, then choosing committees from each organization, each committee having a duty to perform, such as outlining ways and means of increasing food production, planting and cultivating more land, conserving of food by canning and drying.

Through the office of the County Agricultural Agent numerous articles were issued to the county newspapers bearing on preparedness by increased production. Talks were given at grange meetings, lodge meetings, schools, social gatherings and various other meetings on the subject of gardening and conservation. Agricultural census as well as a survey of the county were taken to ascertain the number of persons who would plant more acreage if they could get the ground and had the seed with which to plant additional land, number of acres of land not then under cultivation and where located, and what was necessary to put the land in condition to be cultivated.

At this time the Boys and Girls Clubs throughout the county became interested in the campaign for increased production, resulting in many tracts of land which would otherwise have been uncultivated, being planted and the results obtained were phenomenal, and to aid in the conservation of this additional production of food stuffs, canning clubs were formed among the school children and these clubs co-operating with the Mother-Daughter canning clubs were able and did take care of this increased production.

That a more concrete idea of the necessity of preparedness might be gained, the County Agricultural Agent with the State College of Washington and the U. S. Department of Agriculture co-operating, numerous lectures and demonstrations were given on canning and drying, all of which was of material help to those who were trying to do their bit.

(b) Hocksack Valley Potato and Fruit Growers Association.

At a meeting called by the County Agricultural Agent at the home of Mr. E. G. Wight near Everson, to discuss market grades and standards for potatoes the Hocksack Valley Potato and Fruit Growers Association was organized. The following officers were elected for one year, President, M. J. Ludington; Vice President, W. A. Pike; Secretary-Treasurer, E. G. Wight; Lewis Miller, Austin Woolhiser and Allen Holstein, were chosen as Advisory Board, all officers and directors getting their mail on Everson Rural Route. The members intend to grade their product according to grades promulgated by the State Market Commissioner, Mr. Asher Hobson. A central grading station will be established and an expert grader employed, so that the association products will be put up in uniform grades, and comply with the state or government standards.

PROJECT NO. 2.

(c) County Agricultural Council

The Agricultural Council will co-operate with the State College of Washington, the U. S. Department of Agriculture in outlining the work and maintaining the office of the County Agricultural Agent, and in general, to promote the agricultural welfare of the county.

I met with the seventeen granges in the county, and all the agricultural organizations for the purpose of outlining the plan of the Agricultural Council. I advised the various organizations to elect two representatives to act on this Council, and pointed out how the agricultural welfare of the whole county would be benefited by such an organization.

The night we met at the County Agricultural Agents office to organize, there were twenty-one delegates present, also Mr. N. B. Cogan County Agent Leader, who clearly outlined how it was the duty of each member to render efficient service, thereby building up the agricultural welfare of the county. Officers were elected for one year as follows: President W. A. Pike; Vice President, C. E. Flint; Secretary, C. I. Rogers.

The Agricultural Council has held a number of meetings since and now has a membership of thirty-eight persons. Committees have been chosen to act on various projects undertaken by the County Agricultural Agent and are well under way for next years work.

All work in the county will be passed on by the Agricultural Council, as it will be one of the principal organizations assisting the County Agricultural Agents office.

(d) Jersey Cattle Club.

The County Agricultural Agent assisted the breeders of Jersey cattle in Whatcom County in organizing a Jersey Cattle Club. The officers are as follows: President, Cyrus Gates; Vice President, L. G. Beebe; Secretary-Treasurer, E. F. G. Carlyon.

(e) Whatcom County Egg and Poultry Association.

Poultry men of the county organized to co-operate with the Washington Co-operative Egg and Poultry Association at Seattle, Washington. The organization formed in this county acts as a local to the State Association at Seattle. President E. S. Hillier, Bellingham; Vice President, Roy Palmer, Lynden; Secretary-Treasurer, Geo. H. Griffith. By the organization of this association the poultrymen are able to receive a four cent bonus per dozen which means a big profit on a years' production. They are also buying their poultry feeds in car load lots and saving money this way.

The Poultrymen Association buys feed for the members in car load lots and the County Agricultural Agent has assisted the purchasing committee in many instances, especially in buying alfalfa hay.

With the high cost of dairy feeds, the dairyman call on this office constantly for balanced rations. As a result of these inquiries

Goshen, size 10 x 30, made of staves cut to order, tongued and grooved, continuous door type. Silo complete with foundation, roof, doors and paint, including labor amounted to \$178.38. Have not received figures from the other co-operator. It will be an easy matter to get more silo demonstrations next year, because the dairymen are widely interested in silo construction. We called a public demonstration at the farm of E.W. Mize; nearly thirty farmers were present to see that home made silo constructed, and as a result of this demonstration I have the promise of three silo co-operators in that community next summer. I was asked to assist many farmers in the construction of silos they had purchased from dealers.

(b) Cow Testing Association.

A Cow Testing Association was next in line, and with the co-operation of Mr. O. E. Gibson, Dairy Field Agent, U. S. Department of Agriculture, stationed at Puyallup, Washington, we signed up twenty-six men, owners of five hundred cows and organized the Ferndale Cow Testing Association. Victor Morgan was hired to do the testing, and the association began work on August 1st, 1917. The members are all interested in the work and are changing their feeding methods very rapidly. The association report is published each month in the county papers. It is hard work to get men who are qualified to do the testing, or other associations would have been organized. This is the only Cow Testing Association in Whatcom County, but more will be organized next year. The officers of the Ferndale Cow Testing Association for the ensuing year are as follows: President, H. B. Douglas; Vice President, Jay Vail; Secretary, P. C. Johnson; Treasurer, B. S. Hillier; the Board of Directors is comprised of A. E. Radford, E. J. Evans and J. A. Porter.

At the November meeting of the Whatcom County Dairymen's Association, I was asked to talk on cow testing association work, and I outlined the work of the Ferndale Cow Testing Association and gave a digest of this work being carried on throughout the United States.

(c) Feeds and Feeding/

This phase of the work was covered several times by talks at the Whatcom County Dairymen's monthly meetings and at various grange sessions. The association meets once a month to discuss feeding questions, marketing work, feed prices and breeding problems.

The Dairymen's Association buys feed for the members in car load lots and the County Agricultural Agent has assisted the purchasing committee in many instances, especially in buying alfalfa hay.

With the high cost of dairy feeds, the dairymen call on this office constantly for balanced rations. As a result of these inquiries

Very little work has been done along this line of the dairy project, but in the future more attention will be given to the formation of pure bred bull clubs. I have been asked by several breeders in the county to assist them in buying pure bred cattle, and have purchased one pure bred bull for a member of the Ferndale Cow Testing Association.

PROJECT NO. 3. DISEASES OF ANIMALS

(a) Tuberculosis

Much good work has been accomplished in the eradication of Tuberculosis in the county. During the summer applications for the tuberculin testing of cattle by the state were received at this office on 3,500 cows. The work in the county has not been completed as yet, but out of the 3,500 tested only seventy-five have been condemned and slaughtered. Four public post-mortem demonstrations have been held in the county with a total attendance of nearly 5,000 persons. The County Agricultural Agent had the co-operation of Dr. W. D. Garrett, Inspector State Department of Agriculture. At present there are nearly 1,500 cows to be tested, the applications being on file in this office.

(b) Contagious Abortion.

This office has the co-operation of several dairymen in the county relative to cleaning up this disease in the herd. Good success has been obtained in one herd by the use of B. K. It is a mild non-irritating disinfectant and can be used from time of service to within a few days of calving. Mr. H. B. Douglas at Ferndale has used it in his herd of pure bred Guernsey cattle with excellent results. It has saved cows this year that have lost their calves for several years past.

PROJECT NO. 4. FARM CROPS AND SOILS.

At present there are very few farmers in this county who outline or carry out a system of crop rotation. This is due to lack of knowledge relative to the benefits derived from such a practice, and in the main to the variable soil conditions.

Cats and clover do well in most sections of the county, but in some places clover has ceased to grow so well, which speaks strongly in favor of crop rotation and soil culture.

PROJECT NO. 5.
DAIRY MANAGEMENT

Soil tests have been made in nearly every part of the county and they all show a very acid character of soil. A number of lime experiments have been outlined, but it is too soon to issue a conclusive statement; however, they prove the advisability of using lime. Clover meadows were top dressed this spring at the rate of two tons per acre with noticeable results in the hay produced. Much of the agricultural land in the county would be benefited by drainage. One drainage district is being worked on now, but will not be in shape to organize for a few months.

Co-operators are being chosen now to carry out systems of crop rotations and liming experiments for the next year.

The County Agricultural Agent is endeavoring to get more farmers to plant alfalfa. This crop can be grown successfully, because Mr. A. L. Tyler of Lawrence, has an excellent stand on a field of his that has been in alfalfa for seven years. This year he took off three cuttings and averaged nearly five tons per acre. He had an exhibit at the County Fair of the three cuttings of alfalfa which measures seven feet six inches high. Mr. Tyler is an excellent co-operator and has furnished the County Agricultural Agent with soil from his alfalfa field for inoculating demonstration plots. The plots planted this summer have all done well and it is hoped that more farmers will co-operate with this office next year, for the purpose of growing this valuable stock feed.

Hugh MacCauley seeded two and a half acres of Turkestan Alfalfa this spring under the supervision of this office. The land was carefully prepared, well manured and limed at the rate of two tons per acre, soil inoculated with dirt from A. L. Tyler's field, eighteen pounds of alfalfa seed used per acre. Rather heavy seeding, but in this territory there is a wild grass and cheat that have a tendency to crowd out the legumes. His plot produced one crop this fall of nearly one ton per acre.

Mr. E. B. Douglas, Ferndale, is a co-operator of this office in growing Speltz (Russer). This grain does well as a crop to be grown on river bottom soils. It makes an excellent dairy feed when threshed, and also very good ensilage.

Mr. Thom. E. Alderson, is another co-operator of this office. Grows Red Fife Wheat and Winter Vetch for silage purposes. This crop does well on sandy soils.

Soil work will be emphasized next year to the extent of considering it one of my major projects.

The County Agricultural Agent has been asked to co-operate with Professor E. B. Stoekey, Agronomist at the Western Washington Experiment Station, and Professor Henry Heltz, Soil Chemist, State College of Washington, for the purpose of carrying on crop and soil experiments in the county next year. Samples of soil will be taken in five districts of the county and crop rotations will be outlined for each district.

PROJECT NO. 5 FARM MANAGEMENT

Work under this project has been taken up with the idea of outlining the farmers business on a permanent basis. Many farmers have been assisted with their crop rotations, and laying out their fields to save labor. I wish to again call attention to the proposed work for next year on soils and crop rotations as outlined by this office with the co-operation of the County Agricultural Council, Soil Department of the State College of Washington and the Western Washington Experiment Station.

It has been possible for the County Agricultural Agent, through the assistance of Mr. R. M. Miller, Farm Management Demonstrator, U. S. Department of Agriculture co-operation with the State College of Washington, to establish a system of Farm Account books among the members of the Verndale Cow Testing Association, the Meridian Federal Farm Loan Association, and several members of the Agricultural Council. Sixty farm account books have been distributed. Mr. Miller assisted the County Agricultural Agent in this work and each farmer was given personal assistance with his inventory. This farm account system will be of great benefit to the men as very few of them know now, if they are receiving the best returns from the money and labor invested on the farm.

It will be the duty of our Farm Crop Committee of the Agricultural Council to assist the County Agricultural Agent in working out a feasible system of crop rotations in the county for a period covering five years.

PROJECT NO. 6. BOYS AND GIRLS CLUB WORK.

There were a number of well organized Boys and Girls Clubs in the county when I began my duties as County Agricultural Agent and it was with this organization that I first took up the question of food conservation and increased food production. The County Agricultural Agent succeeded in organizing several Garden, Potato, Alfalfa, Pig and Poultry Clubs, but the county is greatly in need of a Club Leader. Great good can be derived from this work if the club members could receive assistance during the vacation period, for it is at this time that the members become over worked and fail to keep up their records. At present there are Forty-four clubs in Whatcom County with a total membership of 344.

May 22nd, 1917, talked to the Garden Club at Sumas which consists of twenty-two girls, all having gardens and keeping up their reports for the National Club. Urged careful cultivation and advisability of planting crops in a garden that could be used either green, canned or stored for winter use. Organized a Mother-Daughter Canning Club to make use of the products grown in the gardens.

May 23rd, 1917, gave a talk on gardening and potato seed selection and diseases, before the Boys and Girls Garden and Potato Club at Laurel High School. Also talked to the members of the Laurel Pig and Poultry Club.

May 25th, 1917, talked gardening and poultry work to the Everson Garden and Poultry Clubs. The Everson Clubs have chosen capable

summer months and will do good work.

June 7th, 1917, met with the Boys and Girls Club of the Law-
school. Spoke on Gardening and Potato Growing, seed selection
diseases. After the meeting excursions were taken to the gardens
several of the members. While at the gardens we talked over ques-
tions pertaining to soil preparation, seeding, cultivation and harvest-
ing.

Plans were made to organize a small Alfalfa Club in that com-
munity. Club afterwards formed, each member planting a small plot. The
plots with few exceptions have done well and the stand of alfalfa is
good.

June 6th, 1917, called an evening meeting of the members of
the Boys and Girls Club at the Clearbrook School house for the purpose
of meeting Mrs. Elizabeth D. Jones, Assistant State Leader of Boys and
Girls Club work, State College of Washington. Had a large meeting.
Mrs. Jones spoke on the duties of club members, while I outlined the
work of organizing a Pig Club. Small club started and the members are
raising their pigs and keeping cost accounts.

July 12th, 1917, visited the gardens of club members near
Deming. In most every case the gardens were well cared for, but the
leader told me it took considerable of her time to see that the club re-
cords were properly kept. At this time the records were all up in good
shape.

July 19th, 1917, the day was spent visiting the members of the
Lawrence Garden Club, and talked proper methods of cultivation. After
visiting the gardens of twenty-two members, we met in the Community Hall
where a short meeting was held at which time the members presented their
garden reports for inspection, and the Girls Canning Club gave a canning
demonstration at this community meeting. There were nearly sixty per-
sons present.

August 30th, 1917, today was spent with members of several
Stock Judging teams. We visited farms where we could get stock to
judge. The boys were obliged to judge a ring of four animals, of cattle,
horses, sheep and swine. The boys showed lack of preparation on giving
reasons. Many High Schools are offering courses in agriculture and make
the mistake of hiring teachers that are not properly trained in this
work.

September 3rd, 1917, today was devoted to stock judging work.
I gave the county team a work out. This team is picked to represent
the county at the State Fair. They gave a good account of themselves
that day and were well up in the list at the State Fair Contest.

October 16th, 1917, held a meeting of the Potato Club members
at the Laurel school, where I gave a potato grading demonstration, using
the Government proposed grades and Washington State Grades, to give the
members an idea of what was demanded in each case. Part of my talk was
along the line of diseases and how they effect grades, also how to com-
bat disease. Urged seed selection by hill method. Thirty members were
present.

PROJECT NO. 7.
EXTENSION WORK IN COUNTY.

(a) Dairy.

During the week of May 26th to June 2nd, this office received assistance from Professor J. H. Price, Dairy Specialist of the Extension Service, State College of Washington. A silo and cow testing association campaign were carried on in the county, as a result of which two home made silos were constructed later in the summer.

(b) Horticulture

The week of June 30th to July 7th was spent with Professor R. J. Barnett, Horticultural Department, State College of Washington. Professor Barnett was making a survey of the small berry industry, especially strawberries, besides we made several calls at orchards affected with scab, canker and blight. No pests were found to be troubling the strawberry plants, although at a later date the County Agricultural Agent found where wire worms and root weevils had caused considerable damage. This office with the assistance of the Plant Pathology Department of the State College of Washington are outlining experiments for next summer to combat the strawberry root weevil and the wire worm.

With the co-operation of Horticulture Commissioner, M. L. Dean State Department of Agriculture, Olympia, Washington, this county has been allotted a Horticulture Inspector, whose services the county is greatly in need of.

On November 1st, 2nd and 3rd, we held seven potato meetings in the county in co-operation with Mr. Asher Hobson, Director Office of Farm Markets, State College of Washington, and Professor J. L. Stahl, Horticulturist of the Western Washington Experiment Station, Puyallup, Washington. Mr. Hobson outlined the service the Office of Farm Markets was arranging to render the farmers relative to Market News Letter, inspection of farm products, and emphasized the great necessity of standardizing farm products. Mr. Stahl took up the question of potato diseases and how they affected the marketing of crops and urged the growers to practice hill selection of seed. Mr. Stahl gave very instructive talks on Blight, Scab, Blackleg and Rhizoctonia and exhibited good specimens of each disease and outlined carefully the methods of treating the seed to combat these diseases. After each meeting Mr. Hobson and Mr. Stahl graded potatoes which the farmers had been asked to bring for this purpose. The meetings were well attended and I know that much good has already resulted, as practically every potato growing section is observing the state grades on potatoes.

(c) Animal Diseases.

On August 6th 7th and 8th, six meetings were scheduled by the County Agricultural Agent for extension work in the county on Animal Diseases. Dr. J. W. Kalkus, Extension Department, State College of Washington, discussed the more important diseases affecting dairy cattle such as Tuberculosis, Contagious Abortion, Udder diseases and Red Water in cattle. He also talked on bone diseases in horses. These meetings were not large owing to the busy time of year, but those present showed much interest.

(d) Domestic Science Work

The week of July 30th to August 4th was devoted to Domestic Science Work. The County Agricultural Agent received the co-operation of Miss Mary E. Sutherland, Extension Service, State College of Washington. Through the co-operation of the Woman's League for National Service, Local Red Cross units, and various granges, it was possible to schedule seventeen meetings in the county for this work. Miss Sutherland demonstrated methods of canning and drying of fruits, vegetables and meats; lectures accompanied each demonstration. At each demonstration Miss Sutherland asked women to volunteer and assist her with the canning. This idea was to train leaders for community canning demonstrations, to assist in the food conservation work outlined by the County Agricultural Agent. The weeks work was very successful and the ladies at each meeting expressed their appreciation by asking the County Agricultural Agent to secure the services of Miss Sutherland for another week later on. Bulletins on canning and drying of fruits and vegetables were distributed at each meeting and a list of the persons present secured to be used as a mailing list for this office and a copy to be sent to the State College of Washington.

July 18th was spent with Dr. J. S. Caldwell, By-Products Specialist, State College of Washington. One meeting was held in the lecture room of the Bellingham Chamber of Commerce, at which Dr. Caldwell addressed the members of the Woman's League for National Service and Red Cross Society, on the subject of drying fruits and vegetables. Dr. Caldwell demonstrated a small fruit drier which could be used on the kitchen range.

That same evening we held a meeting in the Lawrence Township Hall to discuss the construction of a community fruit drier of the tunnel type. The various types of driers were outlined and Dr. Caldwell gave a very interesting talk on the method of preparing fruit and vegetables for drying and how to care for the dried fruit. Dr. Caldwell furnished the meeting with figures on the cost of a three ton drier.

Ways and Means of Using Cottage Cheese as a Food Substitute.

Held sixteen meetings in the county during the week of October 29th to November 3rd to demonstrate the making of Cottage Cheese, and the numerous ways of using the product as a substitute for other foods.

The County Agricultural Agent had the co-operation of Miss Olga Grizzle, Emergency Home Economic Demonstration Agent, State College of Washington and the U. S. Department of Agriculture co-operating, also Mr. E. G. Barber, Jr., Dairy Division, U. S. Department of Agriculture. Mr. Barber demonstrated the cooked and uncooked method of preparing Cottage Cheese and outlined the food value of this product. Miss Grizzle then prepared many good wholesome dishes from the cheese and also gave the meetings recipes on how to conserve wheat and meats by using milk, cheese and vegetables.

This food work was scheduled at just the opportune time as all our meetings were held throughout the county during the week set aside for the Hoover Food Pledge Card campaign, and helped the work materially in this county, as Miss Olga Grizzle was able to answer many questions that were vague to some housewives. The meetings were crowded which

co-operation.

The State Department of Agriculture has assisted with extension work in the county from time to time and has been of material assistance to the County Agricultural Agent, especially in his campaign to eradicate tuberculosis. The state inspector spent several weeks in examining cows as a result of a campaign outlined by this office. Over 3,500 cows have been tested with only seventy-five condemnations. There are still applications on file in this office for the test of 1,500 cows. These applications are the result of two good post-mortem demonstrations held at Lynden during County Fair week.

Mr. K. L. Dean, Assistant Commissioner of Agriculture, has assisted the County Agricultural Agent on several occasions pertaining to Horticulture meetings to stimulate the campaign for securing a Horticulture Inspector for this territory. He has been very successful in having of fruits, vegetables, fish and meat, and it has been demonstrated that dried fruits can be used to good advantage as a substitute for meat and what was a very palatable and nutritious addition to any meal.

PROJECT NO. 8 MISCELLANEOUS WORK.

(a) Food Production and Conservation.

In complying with the governments request that a campaign for the production and conservation of food be carried out, plans were outlined whereby a greater acreage was planted to garden truck, thus giving abundant material to be taken care of through the canning and drying process.

To further the work of conservation and at the same time assist those who needed more complete instructions in the method of canning, the County Agricultural Agent was successful in securing the services of Miss Mary E. Sutherland, State College of Washington, to give a series of lectures and practical demonstrations in the canning of fruits, vegetables, fish and meat. That these demonstrations and lectures might be of benefit to the greatest number of people the county was divided into six districts, a committee was appointed in each district whose duty it was to secure a suitable place for holding a demonstration and to see that the people of the community were advised of the meeting. Including several night sessions, seventeen of these meetings were held with excellent results. In each district Miss Sutherland requested that a few ladies attend each meeting, become familiar with the process of canning, and then they in turn hold meetings and demonstrations in their own communities. This method of meeting the demand for demonstrators proved to be very successful as well as practical and resulted in numerous neighborhood meetings being held where canning formed the afternoon diversion. The most enthusiasm prevailed at Sumas, Everson and Hocksack, where the most successful meetings were held and resulted in many jars of fruit, vegetables and meat being canned. In all cases the produce as well as the cans and ingredients used were supplied by the ladies present.

Another and probably the most successful series of food demonstrations were carried out during the week set aside by Mr. Hoover for Food Conservation, and continued for a month. At this time the

Agricultural Agent, the Woman's League for National Service co-operating with the State College of Washington were successful in obtaining the services of Miss Inez Arquist, State College of Washington, who, with the assistance rendered by the Domestic Science classes of the High Schools and the women trained in the work by Miss Sutherland, carried on a series of daily demonstrations at the Public Market, which were witnessed by hundreds of persons. The fruits, vegetables, cans, sugar and other materials used at and during these demonstrations were donated by the people of Bellingham and Whatcom County. That the work was successful beyond all expectations is shown by the fact that fully a ton and a half of produce, consisting of beans, corn, tomato and onions (relish), peaches, pears, prunes and apples were canned during the period of demonstrations.

Aside from canning, food conservation is being carried on extensively along other lines such as drying fruits and vegetables, the saving of fats, sugar, wheat and meat, and it has been demonstrated that skimmed milk can be used to good advantage as a substitute for meat and wheat and makes a very palatable and nutritious addition to any meal.

That these meetings could not have attained the success they did without the assistance rendered by the State College of Washington is demonstrated by the fact that those who attended the meetings are loud in their praise of the results accomplished, and knowledge gained by the more up-to-date methods employed by the demonstrators.

(b) Crop Pests.

In the Pacific Northwest the Cabbage Maggot causes considerable damage and as a experiment we tried combating them with a solution composed of one part Crude Carbolic Acid, ten pounds slacked lime to thirty gallons of water; however, this mixture did not prove very successful. We then tied small pieces of ^{tan} paper around the stems of the cabbage. This method was a success. A mixture of salt, lime and wood ashes was slightly successful.

Cabbage worms were successfully combated this summer by arsenical sprays issued by this office.

Caterpillars on trees near Sumas were destroyed by the use of the following spray, advised by this office: five pounds Arsenate of Lead to one hundred gallons of water

Spent three days during the week ending October 27th with Mr. J. C. Kake, Horticulture Inspector for this district. We visited several orchards that were badly affected with Black Spot Canker. Mr. Kake and this office are outlining work to combat this disease, as it is causing considerable damage to the Gravenstein apple crop and many pear trees are also found affected.

(c) Puyallup Excursion.

The excursion to the Western Washington Experiment Station at Puyallup, was made by twelve farmers accompanied by the County Agricultural Agent. The delegation was small owing to the fact that the

distance was so great and it meant two nights and two days away from the farm work; however, those that made the trip were very well pleased and said that it was more than worth the time.

The western counties of the state were divided into districts and each district had its particular excursion day to the Experiment Station. The excursions were very successful and it is hoped that they will be made annual affairs. The day at the station was spent in visiting the experimental plots, buildings, demonstrations and the Puyallup Berry Cannery. Next year the Whatcom County delegation will be larger, because the people that made the trip this year are good boosters.

(d) County Fair Work.

During the week ending July 21st, I met with the Board of Directors of the Whatcom County Fair Association, for the purpose of assisting them with their 1917 show. The question of live stock judges was left to my care. Secured the services of J. H. Price, Extension Service, State College of Washington, and Mr. C. F. Monroe, County Agricultural Agent in Grays Harbor County. They judged all classes of live stock.

Arranged with Dr. W. D. Garrett, State Department of Agriculture to hold two tuberculosis post-mortems at the County Fair. These demonstrations will have a lasting influence in the county for more sanitary conditions in the dairy work.

Arranged with Professor W. A. Linklater, Superintendent of the Western Washington Experiment Station to have a poultry exhibit at the County Fair. He sent Mr. G. R. Shoup of the Poultry Department, who gave lectures daily in the Poultry Department on questions pertaining to feeds and feeding, breeding, poultry house construction, etc.

The County Agricultural Agent had temporary headquarters at the fair grounds during fair week where many questions were discussed and daily demonstrations given on grading potatoes.

(e) Second Liberty Loan Campaign.

During this drive the County Agricultural Agent assisted the county organization by speaking on this subject at the various grange halls.

(f) Hoover Pledge Card Campaign.

As chairman of this committee on the County Council of Defense I took charge of the work in the country districts in Whatcom County.

With the co-operation of the County Superintendent of Schools, the Woman's League for National Service, the various Parent-Teachers Associations and the Boys and Girls Clubs, we were successful in doing our share, although the allotment for the county was not reached, the country districts did not fall short and it is a rare sight not to see a Hoover Pledge Card in the front window of a farm home.

W. B. Carroll
COUNTY AGRICULTURAL AGENT.