

ANNUAL NARRATIVE REPORTS  
of

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Harry D. Gleason  
Guy C. Anderson

County Extension Agent.  
Assistant Extension Agent.  
Assistant Extension Agent in Dairy

For the Period

November 1, 1935 to October 31, 1936

Whatcom County, Washington.

TABLE OF CONTENTS OF NARRATIVE REPORTS  
WHATCOM COUNTY, WASHINGTON.

REPORT OF F. W. FRASIER:

	Page
Status of Extension Work in Whatcom County, Washington.-----	1-2
Project: Agronomy (Soils and Crops)-----	3-6
"    Agricultural Adjustment Administration-----	7-10
"    Agricultural Engineering-----	11-12
"    Horticulture-----	13-14
"    Rodents and Miscellaneous Insects-----	15-15
"    Poultry-----	16-20
Outlook and Recommendations-----	21
Miscellaneous--	22
Project: Agricultural 4-H Club Work--	23-24
4-H Completion List--	25-31.

REPORT OF HARRY D. GLEASON:

Project: Agricultural 4-H Club Work--	32-33
"    Dairy-----	34-35
"    Agronomy (Soils and Crops)-----	36-41
"    Agricultural Adjustment Administration-----	41
Miscellaneous-----	42

REPORT OF GUY C. ANDERSON

"    Dairy Herd Improvement, Dairy, Farm Crops, Misc-----	43-49
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NARRATIVE REPORT OF F. W. FRASIER  
COUNTY EXTENSION AGENT, WHATCOM COUNTY  
For the Period  
NOVEMBER 1, 1935 to OCTOBER 31, 1936.

STATUS OF AGRICULTURAL AND HOME ECONOMICS EXTENSION WORK IN WHATCOM COUNTY

Agricultural Extension Work in Whatcom County was started in 1917 by the joint cooperative efforts of the Board of County Commissioners, the State College of Washington and agricultural interests of the county. Mr. Harry B. Carroll, now Administrative Assistant to Director of Extension, Mr. F. E. Balmer, State College of Washington was appointed first Agricultural Agent and acted in that capacity until June 4, 1934. During his time as County Agent and up to October 31st, 1936, a number of Assistant Agents have served the farm people of the county. The following is a summary of the personnel who have been active in duty for the Whatcom County Agricultural Extension Service since its beginning in 1917:

<u>NAME</u>	<u>TITLE</u>	<u>PERIOD OF SERVICE</u>	<u>PRESENT POSITION</u>
H. B. Carroll	County Extension Agent	<sup>mays</sup> 1917 to June 4, 1934	Administrative Ass't. Wash. Extension Service
L. C. Boggs	Assistant Extension Agent in Poultry.	1927 to Jan. 15, 1928	State Supervisor of breeding flock and hatchery operation of Wash. Coop. Chick Association.
L. N. Freimann	Assistant Extension Agent in Poultry.	July 1, 1928 to Jan. 1, 1932.	County Agent in Island County, Wash.
Inez Arnquist	County Home Demonstration Agent.	March 1, 1929 <del>to</del> same.	Same
Fred W. Frasier	Assistant Extension Agent in Poultry.	March 1, 1932 to June 4, 1934.	
Fred W. Frasier	Assistant County Agent in Charge	June 4, 1934 to August 1, 1935	
Fred W. Frasier	County Agri. Agent.	Aug. 1, 1935	Same
Guy C. Anderson	Ass't County Agent in Dairying in charge of Whatcom County D.H.I.A.	Jan. 1, 1933 to Oct. 31, 1934.	
Guy C. Anderson	Assistant Extension Agt.	Oct. 31, 1934 to Nov. 1, 1935.	
Guy C. Anderson	Assistant County Agent in Dairying in charge of Whatcom County D.H.I.A.	November 1, 1935	Same

R. T. Cole	Ass't County Agent	July 1, 1934 to Oct. 15, 1934	County Agent in Pacific County.
Eugene Schuh	Ass't County Agent in Dairy in charge Whatcom County D.H.I.A.	Oct. 29, 1934 to May 15, 1935	Farm Representative Puget Sound Power and Light Company.
Harry D. Gleason	" " "	June 14, 1935 to July 28, 1935	Went to Pierce County to do same kind of work.
Harry D. Gleason	Ass't County Agent	January 1, 1936	Same.

The Whatcom County Agricultural Extension Service Personnel on November 1, 1935 included F. W. Frasier, County Extension Agent; Guy C. Anderson, Assistant Extension Agent in Dairy and Supervisor of the Whatcom County Dairy Herd Improvement Association; Miss Inez Arnquist, Assistant Extension Agent in Home Economics and girls' 4-club work.

January 1st, 1936, Mr. Harry Gleason was appointed to the position of Assistant Extension Agent in Agriculture by Mr. F. E. Balmer, Director of Extension. The appointment was approved by J. W. Austin, Chairman, Dr. Jacob S. Smith, and Frank L. Cramer, County Commissioners. Mr. Gleason was transferred from Pierce County where he was serving as Dairy Herd Improvement Association Supervisor.

The County Agricultural Extension personnel as of November 1, 1936 included F. W. Frasier, County Extension Agent; Inez Arnquist, Assistant Extension Agent in Home Economics; Guy C. Anderson, Assistant Extension Agent in Dairying and Supervisor of the Dairy Herd Improvement Association and Harry Gleason, Assistant Extension Agent in Agriculture.

During the year in the order named, Miss Katherine Miller, Miss Agnes Avent, Miss Helen Steiner, and Miss Ruth Eyres worked in the county with Miss Arnquist for the purpose of receiving practical extension training in Home Economics.

The general policies of the office have not changed materially over the previous year except that in addition to Agricultural Adjustment Administration Corn-Hog Program and Sugar Beet Programs, which were carried during the year the Agricultural Conservation Program has been included as a major extension project.

The County Extension Service cooperate with and works through such organizations as Pomona Grange, Grange Council, twenty-one subordinate Granges, the Washington Cooperative Egg and Poultry Association, the Whatcom County Dairymen's Association, Washington Cooperative Chick Association, Poultrymen's Hatchery, Dairy Herd Improvement Association, 4-H Club Leaders' Council, Guernsey, Jersey and Holstein Cattle Breeder's Clubs, Federation of Home Demonstration Clubs, Corn-Hog Control Association, Sugar Beet Control Association, Agricultural Conservation Association, Independent Feed Dealer's Association, Independent hatcheries, County Poultry Locals, County Dairy Locals, Washington Cooperative Sugar Beet Grower's Association, Utah-Idaho Sugar Beet Company, the rural and urban press and others who are working for the interests of agriculture.

During the year the Board of County Commissioners has given the Extension Service the highest type of cooperation and with their helpful attitude toward the agricultural problems of the county a constructive program can be carried forward.



PROJECT: AGRONOMY (SOILS AND CROPS)

JOB FOR THE YEAR.

1. Continue fertilizer plots on each of sugar beets and pastures.
2. Secure ten cooperators in the use of superphosphate to reinforce barn yard manure.
3. Secure 5 cooperators in the use of superphosphate and potash on peat soils.
4. Secure two cooperators in better storage of barn yard manure.
5. Secure ten pasture cooperators.
6. Secure twenty alfalfa cooperators, to make new or additional seedings.
7. Secure 5 cooperators in weed control.

RESULTS

1. Secured two pasture fertilizer cooperators. No plots for sugar beets.
2. At least 25 farmers secured information relative to this practice and did it.
3. Seven farmers are known to have done this during the year as result of Extension contacts.
4. As result of agricultural conservation program activities much discussion was provoked among farmers regarding better storage of barnyard manure. No definite cooperators were secured and it is felt that the interest aroused in the subject will result in much good.
5. This and more was done.
6. Approximately 15 farmers have made new or additional seedings of alfalfa this year.
7. An estimated number of 15 farmers practiced noxious weed control by cultural methods, chemical means, and cutting before seed is produced as result of extension contacts.

SOILS

Together with Professor Leonard Hagnauer, the Agent with the aid of a soil map of the county studied and secured samples of the different major soil types in the county. The soil was secured at different levels. Some of these samples have been made up into an exhibit by putting them into glass bottles. These are useful in discussing soils and soil conditions with farmers and others in the county.

Assistance has been given to farmers by sending samples of their soil to the Soils Department at the State College for analysis.

At the request of J. B. Pemberton, the Agent spent a part of one day at the County Farm with him in looking over the farm buildings, livestock, crops and soil conditions. Five soil samples were taken by the Agent from different parts of the farm. The samples were sent to the State College for analysis. In discussing the problems of the farm with Mr. Pemberton, the Agent offered suggestions as he thought they would fit into the management scheme of the farm and which would prove practical and economical in operation. Inasmuch as possible the Extension Service plans to cooperate in an advisory way with those in charge at the county farm in assisting them with the farm problems.

An experimental plot of grass seeds was established under the direction of Leonard Hegnauer on the Louie Bruemmer farm near Everson. The results of this work is given in Harry Gleason's narrative report.

Much of the farm crop work done was in the nature of office calls of farmers who desired information on plant identification, uses of fertilizers and weed control methods. The acreage of reeds canary grass and alfalfa has increased in the county the past year.

On August 14th, Dr. Coons, Federal Plant Pathologist, met with and talked to sugar beet growers of Whatcom, Skagit, and Snohomish Counties about the control of blackroot. Following the meeting, Mr. R. L. Howard, Manager, Utah, Idaho Sugar Company in Washington; Dr. Coons, V. J. Valentine, County Agent, Skagit County, and the writer made a trip into the county to see sugar beet fields which had been affected with blackroot.

As a result of Dr. Coon's lead on the control of blackroot, namely, rotation of crops, the County Extension Office in cooperation with the Washington Cooperative Sugar Beet Growers Association, the Utah-Idaho Sugar Company, and representatives of the State College prepared a questionnaire and sent a copy of it to every 1935 and/or 1936 sugar beet grower in the three Northwest Counties. A copy of the letter and questionnaire accompanying it are as follows:

Dear Friend:

Blackroot of sugar beets during the past few years has become a menace and financial loss to many growers in Whatcom County and Northwest Washington.

Because of this existing condition and because it is a problem which may concern every farmer in this area who grows sugar beets, the Washington Cooperative Sugar Beet Grower's Association, the Utah-Idaho Sugar Company, and the State College of Washington Experiment Station and Extension Service are vitally interested in taking steps toward working out with the growers, an effective control plan.

In order to secure necessary information in approaching the problem, we need and solicit your cooperation. You can best give your cooperation at this time by returning the enclosed questionnaire with each question answered that may apply to your conditions. This questionnaire is being sent to every sugar beet grower in Whatcom, Skagit, and Snohomish Counties. If all those receiving questionnaires will act as a committee of one to assist in getting them filled out and returned, real progress will result, I am sure.

If you have moved and are not growing sugar beets any more, please fill out the questionnaire for the land on which you did grow them. If you grew beets on more than one farm we will be glad to send to you a questionnaire for each place. Please ask for them. Even if you are not now growing sugar beets and do not plan to again, you can still help solve the problem by filling out the questionnaire and giving the results of your experiences.

Your cooperation in returning the questionnaire to us within the next 15 days, filled in as completely as possible, will indeed be appreciated by all those interested in the sugar beet industry in the Northwest Counties. The enclosed self-addressed envelope is for your convenience and needs no postage.

Cooperative yours,

F. W. FRASIER, COUNTY EXTENSION AGENT.

QUESTIONNAIRE OF BLACK ROOT OF SUGAR BEETS  
OCTOBER 1938

1. How many years have you grown sugar beets in this county?
2. How many years have you had blackroot in your sugar beets?  
Check the type of injury you have had in your sugar beets:
  - (a) Death of young plants.
  - (b) Deformed roots.
  - (c) Blackening and decay of roots and premature death of tops near harvest time.
3. Has blackroot ever attacked your sugar beets in ground where they were planted for the first time? If so, what crop was on the land the year before? If no blackroot, what crop was on this land the year before?
4. What crop do you usually grow on your sugar beet land the year before you plant sugar beets?
5. If you use one piece of land for sugar beets two or more times in rotation scheme, what is the rotation?  
Check the amount of blackroot you have had using this plan: (check one)  
None. Mild. Severe.
6. In your memory, what years has blackroot been the worst on your farm? What crop or crops was on the land in which black root was the worst the two years before the planting of sugar beets?
7. What is the approximate date you plant your sugar beets each year? If the date has varied from year to year have you noticed that it made any difference as to how much blackroot there was?
8. How much barnyard manure do you usually apply per acre to sugar beet land?
  - (a) What kind of commercial fertilizer do you usually apply?
  - (b) Do you broadcast your commercial fertilizer before seeding or drill it on with the seed?
  - (c) How much commercial fertilizer do you apply per acre to beets?



9. If your sugar beets have never been effected with blackroot, please explain why you belive they have not had it?
10. If you have had blackroot in sugar beet fields and have been successful in your efforts to reduce losses from it, please explain your methods.
11. Estimate your financial loss from blackroot during the past five years.
12. Remarks:

Name of Grower \_\_\_\_\_ Address \_\_\_\_\_

The completed questionnaires are coming back to the office daily. Complete results of this project will be in the 1936-37 annual report.

This is a beginning of what the growers hope will be a research program that will ultimately result in a control program. It is estimated that blackroot has caused a 25% loss to the growers each of the past three years.



PROJECT: AGRICULTURAL ADJUSTMENT ADMINISTRATION

CORN-HOG

The County Agent working in cooperation with the County Allotment Committee and the contract signers completed the 1936 compliance program. All of the signers have received payment for their participation except one.

Office and routine work constituted most of the time spent on this phase of the AAA. A total of 7 days were devoted to it. 116 office callers were cared for.

SUGAR BEET

The program was practically completed during the year with the aid of the County Committee, the growers, the Utah-Idaho Sugar Company, Carl Lowe and R. N. Miller. The work was projected in the manner as outlined by the Sugar Section of the AAA .

Most of the Agent's time in connection with the sugar beet program was devoted to routine work, closing up contracts and compliance forms, caring for expense accounts and arranging and attending control committee meetings. A large volume of correspondence was necessary in administering the work.

13 $\frac{1}{2}$  days were devoted to the program. Four meetings were attended, 2 news stories published, 3 circular letters issued, 15 farm calls made and 298 office calls received.

COUNTY PROGRAM PLANNING

The County Agricultural Program Planning work was initiated in Whatcom County, January 29th, by Mr. H. B. Carroll, Administrative Assistant, Extension Service, in cooperation with the County Extension Service, at a meeting at the Leopold Hotel with a committee of 24 representatives of agricultural enterprises and commodities in Whatcom County. Of the 25 who were invited to attend this meeting, 24 were present.

The County Agricultural Planning Program initiated by the U.S. D.A., was discussed with the group. Charts, tables, graphs, and other economic information pertaining to the agricultural situation from a national, regional, state, and county viewpoint, was presented and discussed by Mr. H. B. Carroll, and the County Agent. Several of the committeemen; namely, H. M. Monsen (Sugar beets); T. L. Parrott, (potatoes); Ray Slade (poultry); Mentor Boney (dairy); B. C. Young and G. E. Van Horn (baby chicks); talked about the outlook for the various enterprises.

Following the general discussion the committee requested the County Extension Service to arrange for and hold a group of community meetings where the economic information in the county planning books could be presented and discussion provoked pertaining to the agricultural problems and trends of production in the particular communities. Meetings were scheduled and held at Lawrence, Custer, Everson, Blaine, Lynden, Sumas and Ferndale with a total attendance of 181 farmers and farm women. The first three meetings to be held February 24, 25 and 26th at Lynden, Blaine and Sumas, respectively, were postponed due to unfit weather and road conditions. At that time the snow was drifting so badly that only the arterial highways were open and they were being kept open by county and state snow shovels. At the same time freezing temperatures were being experienced. The three meetings mentioned above were rescheduled and held March 5, 6, and 9, at Lynden, Blaine, and Sumas respectively, even though road conditions were very unfit.

Following the cold weather many of the roads were impassable due to the bottom of the road being so soft. It was reported that the roads at that time were in the worst condition that they had been for many years.

The interest shown and discussion on the part of the farmers attending the meetings was excellent. It clearly demonstrated that they had the problems in mind and were doing some very serious thinking in connection with them. Mr. Guy C. Anderson, Assistant Extension Agent, presented the dairy information at the Ferndale meeting and a short discussion at the Lawrence meeting. Mr. Harry Gleason accompanied the Agent to all seven meetings and presented the dairy information and discussion at 6 of them. It was planned to have Mr. Anderson present the dairy information at all of the meetings in which he could attend and originally had intended to assist at four of them. Undoubtedly due to the weather and road conditions and the change in his schedule of work, it was not possible for him to be present at more than two meetings. Mr. Anderson and Mr. Gleason both presented the dairy information in a most capable manner and it did provoke considerable discussion on dairy problems.

The major dairy discussion centered around foreign butter and butter substitutes and efficiency of production. A considerable diversity of opinion was apparent between community meetings and between the group within the community as to the advisability of production control and protection against foreign butter and butter substitutes. The majority perhaps felt that the dairy industry should not participate in production control and should have more protection against foreign butter and butter substitutes.

It is anticipated that the cow population will remain relatively stable the next few years, the poultry industry will probably increase during the next few years, hogs will increase about 15 percent in 1936, certified seed production will be increased slightly, commercial potato production will remain relatively stable, the raspberries will continue on the decline with the strawberry acreage increasing slightly, a normal increase in the clearing of land will take place resulting in a slight increase in hay crops, smaller grains and pasture, a probable decrease in orchard fruits, particularly sour cherries, and an increase or decrease in sugar beets depending upon their contract with the Sugar Beet Company and the price which they can expect for their beets.

Following the community meetings Mr. Harry Carroll, Administrative Assistant, Extension Service, again came to Whatcom County and worked on the County Program Planning on March 16, 17, and one-half day on the 18th. On the 17th, the Agent called a meeting of the Central Planning Committee to go over the information compiled from the community meetings and to make up their statistical estimates of 1936 crop production as requested by the Department of Agriculture in their questions of "Probable production of the various farm products in 1936 assuming normal weather conditions or farming practices and prospective prices", and "Probable production of the various farm products in 1936 assuming normal weather conditions and prospective prices but without either production or marketing control and if farm practices had been adjusted to main soil fertility and control erosion". Seventeen of the 25 committeemen invited attended the meeting and very capably made up the statistical estimates requested.

The cooperation of the Central Committee and all those working in connection with the County Program gave the Extension Office the finest kind of cooperation and assisted wherever they could. This was very much appreciated by the Agents as it was extremely helpful holding the meetings and making up the Committee Report. It was not possible for all members of the Central Planning Committee to attend the meeting, but at least three-fourths of them did get to one or more planning meetings.



Fourteen days were devoted to the Program Planning Project. Work in connection with the program included 11 meetings, 2 news articles, 5 circular letters to 476 persons, 3 farm visits and 3 office calls.

#### RESETTLEMENT ADMINISTRATION

The Agent has worked with the Resettlement Administration through Mr. P. A. Teichroew, their local Supervisor. Assistance was given on referral cases and committee work. Mr. H. E. Drew, State Director, Resettlement Administration, formally notified five rural Whatcom County persons of their appointment to the Whatcom County Resettlement Administration Committee and authorized them to act in behalf of the program. The Committee members are: Mrs. E. W. Baer, Bellingham; Mrs. C. E. Baller, R#1, Bellingham; Mr. Henry Olsen, R#1, Blaine; Mr. Glen Pettit, Custer, and Mr. Ray Slade, Lynden.

#### AGRICULTURAL CONSERVATION PROGRAM

A brief summary of the Agent's activities in connection with this phase of the Agricultural Adjustment Administration is as follows:

1. Attended two day conference at State College of Washington on April 3rd and 4th, 1936.
2. County meeting of eleven members of community committees of Corn-Hog and Sugar beet programs with Leonard Hegnauer and R. N. Miller.
3. Temporary County Committee composed of John Bierlink, H. M. Monsen, and T. L. Parrott and working with the Agent laid plans for 12 community meetings to explain program to farmers.
4. 12 Community meetings were held and attended by the Agent or Harry Gleason, Assistant Agent or both. Temporary County Committeemen attended several meetings. Election of officers (Chairman, Vice Chairman, Third Committeeman, and Alternate Committeeman) was held at eleven of the meetings.
5. The Conservation Program was discussed by the Agent at a Kiwanis Luncheon, Lion's Club, Spring meeting of Federation of Home Demonstration Clubs, and Toastmaster's Club.
6. Work sheet sign-up meetings were held in nearly every community in the county.
7. On May 19th, the Agent and County representatives attended a conference at Seattle to secure additional information from D. C. Mumford.
8. The Chairmen of the Eleven Community Committees met and organized into the Whatcom County Agricultural Conservation Association.
9. For Administrative efficiency the county was divided into 9 districts.
10. Measuring of the farms qualifying under the program was started July 19th with plane tables. This proved too expensive and was changed to the triangulation system after July 30th.

11. By August 1, 1936, 1461 work sheets had been executed by farmers of the county including those not qualifying for payment.
12. Work sheets were inspected and passed on by the Community Committees with help of office.
13. Listing sheets were completed and sent to Pullman.
14. Measuring of farms completed by mid-October.
15. Correspondence and routine work cared for by the Agent and office assistance since the program was begun.
16. Specialist help—4½ days.  
R. N. Miller; L. Hegnauer; Howard Mann; H. B. Carroll; Carl Lowe.
17. Days devoted to the program—51.
18. Meetings held—34.
19. News stories published—10.
20. Office calls received—994.
21. Circular letters issued—14.
22. Representatives of County Agriculture met with George Farrell, October 23rd at Mt. Vernon.

The cooperation of and the dispatch with which the Committees have done their work has been of immeasurable help to the Extension Office. For the short time that the Agricultural Conservation Program has been in operation in the county, it has been well received and will result in substantial changes in farm practices on many farms. The program was a little late this year to bring about changes in cropping practices except in a few instances but in 1937 more will adopt soil building and soil conserving practices. Just the mere fact that a larger group of farmers are soil conserving and soil building conscious, will create a favorable tendency toward such practices which tend to build up the soil.

Some time was spent with the County and Community Committees discussing a 1937 program adaptable to Whatcom County.



PROJECT: AGRICULTURAL ENGINEERING

April 11th, Professor L. J. Smith, Head, Department of Agricultural Engineering, State College, and M. S. Grunder, Agronomist, Western Washington Experiment Station spent the day in Whatcom County presenting information to the farmers at an Extension Irrigation School held in the Lynden City Hall. Eighty farmers attended the meeting and showed a great deal of interest in irrigation possibilities in the county.

Prior to the holding of the school, the Agent accompanied by Professor Smith, Mr. Grunder, and Eugene Schuh, visited several farms looking over irrigation projects. The farmers attending the meeting at Lynden requested the Extension Service to work out a schedule and hold a tour the latter part of July and early in August to give the farmers an opportunity to see the various types of equipment in use and what results could be obtained from them.

A good representation from Skagit County, including Vey J. Valentine, County Agent, came to the irrigation school. The following program was presented to the farmers.

- 10:00 A. M. Introductory remarks by County Agent. (General need of irrigation in the county)
- 10:15        (a) Irrigation requirements.  
              (b) Benefits of irrigation—M.S. Grunder.
- 10:45        Methods of irrigation—L.J. Smith.
- 11:30        Discussion.
- 12:00        Noon-Luncheon.
- 1:00         Water Requirements. Results of tests at Western Washington Experiment Station by M. S. Grunder. Irrigation pumping systems.—L.J. Smith.
- 2:15-3:00   Discussion.

Irrigation bulletins were displayed and were brought to the attention of the farmers at the meetings and those wishing to secure a copy signed a list for the ones which they desired. These were secured from the State Office and mailed to them.

The Agent cooperated with the National Running Water Council in giving publicity for an irrigation demonstration held in Lynden on April 25th. Over two hundred farmers attended this demonstration which showed the various types of equipment available for farmers' use in irrigation projects.

One day was devoted to visiting farmers who have practical irrigation installations in operation for the purpose of arranging a farm irrigation tour to be held August 8th. The tour was requested by the farmers at an Irrigation School in March of this year.

The Agent made arrangements and prepared publicity for an irrigation tour which was held Saturday, August 8th. The following program was carried out:

- 9:30 A. M. Meet at Kryn Polinder Farm. Irrigating 17 acres pasture, 10 acres sugar beets, 15 acres alfalfa and some second cutting hay land with overhead sprinkling system. System is fully electrified. River bottom soil.
- 10:45 E. W. Lemmert Farm. Overhead sprinkling system fully electrified, drawing water from a well dug in spring 1936. Irrigating 10 acres cannery beans and 5 acres table beets. Using 4" delivery pipes. River bottom soil.
- Noon. Lunch at Everson Nooksack Park, followed by short speaking program. Bring your own lunch, including cream and sugar for the coffee which will be prepared for y u.
- 1:45 P.M. Carl Brown farm. Pumping water from a stream with gasoline motor. Irrigating 5 acres cannery beans, table beets, pasture and alfalfa with overhead sprinkling system.

Mr. R. N. Miller, Extension Economist, assisted two days with the irrigation tour and talked to those interested during the noon hour at the Everson park. Seventy-five farmers attended the tour to see overhead irrigation on pastures, cannery beans, sugar beets, alfalfa and table beets. It is expected that the irrigated bean fields will yield twice as heavy as those non-irrigated. One pasture on the Kryn Polinder farm which had been irrigated was supporting 45 head of dairy cows on August 8th with a high milk production and Mr. Polinder was not feeding any hay or grain. The consensus of opinion among the farmers is that irrigation on pastures would pay even though there were no other crops to be watered on the farm. As a result of the tour, we feel there will be a number of other systems installed for next year. The cooperation of the farmers whose farms were visited, Eugene Schuh, and R.N. Miller were very much appreciated. Mr. L. J. Smith, Head of the Department of Agricultural Engineering unfortunately was not able to attend the tour as scheduled, but it is hoped that if another one is held next year, he will be able to be in attendance.

PROJECT: HORTICULTURE

JOB FOR THE YEAR

1. To get 10 farm families to construct suitable equipment for home fruit and vegetable storage.
2. To get 20 farmers to adopt better training and pruning methods.
3. To get 5 farmers to plant trial plantings of strawberries and raspberries recommended by the State College.

RESULTS

1. Six storage units are known to be constructed in the county by farm families during the past year.
2. Eight farmers have adopted better training and pruning methods as result of agent contacts.
3. One farmer was secured to do this and did it.

In each of the projects many more practices were adopted and used as a result of bulletin and circular distribution relating to the projects. The number would be difficult to estimate

February 19th, the County Extension Office in cooperation with the County Horticultural Office conducted a horticultural school at Everson. The following program was presented to 25 persons in attendance:

Pruning of fruit trees-----Dr. J. C. Snyder.  
Raspberry Varietal Experiments Under  
Way at the Western Wash. Experiment Station-----Dr. Schwartz.  
New and Promising Varieties of Fruits,  
Berries, and Vegetables -----Dr. J. C. Snyder.  
Pea Moth Quarantine-----L. W. King.  
Diseases of Raspberries and Strawberry  
berries-----Dr. Glen Huber.  
Spray Program for Tree Fruits-----Dr. Glen Huber.

The Agent was ill the day of the School, but M. Harry Gleason, ably took the speakers to the meeting and assisted with the program.

One day was spent with Dr. L. K. Jones, Plant Pathologist from the College, inspecting cherry orchards and raspberry plantings. California Blight was found for the first time in both sour and sweet cherry orchards in the county. Recommendations for the control of this disease was made to the growers who were contacted.

Due to prolonged wet weather this year, the cherry leaf spot and brown rot were unusually prevalent in orchards. Lack of care and spraying for cherry trees and fruit diseases reduced the crop 50% in some orchards.



A serious outbreak of bean rust threatened to take the entire crop of beans this year. Through the cooperation of the Extension Office, the Western Washington Experiment Station and the Kale Canning Company, the disease was controlled by dusting the vines with two parts sulphur to one part hydrated lime early in the morning when the dew is still on the plants. As the result of quick action on the part of the cannery and the growers, the bean crop was not seriously damaged.

The Annual Nut Tour was held on August 3rd with 35 farmers in attendance. Dr. J. C. Snyder, Professor Schuster and Dr. Miller helped make the tour valuable to the growers. The following schedule was adhered to on the tour:

9:30 A. M.	Meet at Lakeside Beach, Wiser Lake, proceed to L. Erickson farm.
9:40-10:00	L. Erickson Farm. Effect of two years intercropping of wheat on filbert trees and size of nuts.
10:00-10:30	H. Cavendar Farm. Yearly practice of clean cultivation between filbert trees. Upland soil.
10:30-11:15	Laurin Bostwick Farm. Seventeen acres new planting on upland soil interplanted with strawberries and table beets. Double planting system.
11:15-11:45	Laurin Bostwick Farm. Six year old orchard, interplanted with potatoes. Sprout control experiment.
Noon	Lunch at Everson City Park, followed by a short speaking program.
1:30-2:00	L. Bruemmer farm. Filbert pruning demonstration plots. Upland soil. Use of cover crops in orchard.
2:00	H. E. Altman (Dedardbrook Nut Farm). Filbert pruning demonstration plot. Double planting system. Sprout control experiments. Heartnuts, Mayette, and Franquette Walnut trees.

The filbert trees showed the result of some winter injury. Walnut blotch was found at the Ed. Brown farm and samples were taken by Dr. Miller to the Oregon Experiment Station for examination.

At the request of Mr. J. W. Austin, Chairman, of the Board of County Commissioners, the Agent visited the County Home at North Bellingham to look over a part of the jail and report on its possibility for a storage unit. Following the visit to the home the Agent made a report to the Board of County Commissioners.

The pruning demonstration project for filberts on the L. Bruemmer and H. E. Altman farms was continued this year and will be for a number of years. A third pruning demonstration plot was established on the L. Bruemmer farm.

The Agent assisted a committee to judge the products at the first Market Day to be held in Blaine. The exhibits were few but generally were of good quality and it was a good beginning for this community enterprise. The construction of suitable storage units for fruits and vegetables was encouraged throughout the year.



PROJECT: RODENTS AND MISCELLANEOUS INSECTS

PEA MOTH CONTROL

Lists of pea growers in the county were secured from Scott and Hart, Feed dealers at Everson and Harry Farley of the Farley Feed Company in Bellingham.

The names of men who threshed peas in the county were secured from farmers in the various districts where field peas are grown. To 196 of these people a letter was sent announcing two meetings, Friday, December 20th, at Everson and Ferndale to discuss the pea moth and its control with specialists from the College and the State Department of Agriculture. A questionnaire was sent to these farmers also requesting information concerning crop rotations, acreage and tonnage, and extent of pea moth damage. A majority of the questionnaires were returned to the County Agent in time to be of use at the meetings. The meetings were held as scheduled with the County Agent acting as chairman. Dr. J. C. Snyder, Professor Leonard Hegnauer, Arthur Hanson, E. I. Griner, and L. W. King participated in the discussion.

At the Everson meeting the group voted to discontinue the growing of peas and vetch but suggested further meetings of growers. The Ferndale group were in favor of alternating the growing of peas and vetch east and west of the Guide. No definite action was taken for a control program since there was so much diversity of opinion among the growers. The Extension Service and State Department of Agriculture offered their cooperation in holding further meetings with the growers in the interests of a control program if and when they wanted them.

Thursday, October 29th, J. I. Griner, William Shaw, and L. W. King visited the County Agent regarding a possible quarantine on the growing of seed peas and seed vetch in the area west of the Guide Meridian Road. They presented a petition for a quarantine signed by 31 farmers.

Sunday afternoon, July 5th, Mr. Arthur Hanson, Entomologist, Western Washington Experiment Station, came to Bellingham with approximately 2500 imported insects which were to be released in Whatcom County in a pea moth infested area where growing field peas were infested. The Agent and Mr. Hanson visited the Ferndale area but found no pea moth there. From Ferndale, a trip to Sumas was made where a 17 acre pea field 100 percent infested with pea moth, was located on the L. L. Nims farm about 4 miles east of Sumas where the insects were released. The Bureau of Plant Industry, working in cooperation with Mr. Hanson, are hopeful that this natural enemy of the pea moth will multiply and eventually be parasitic upon this insect with the extent that it will be eliminated. It will take several years to find out whether or not the imported insect will adapt itself to Whatcom County climate. The following day, July 6th, Mr. Hanson came up again with about the same number of these insects which were also released in the L. L. Nims pea field.

Formulas for spraying bulletins and circular on control of insects and personal assistance has been given to those who have asked for these services.

PROJECT: POULTRY

JOB FOR THE YEAR

1. Get 150 farmers to cooperate in following instructions as outlined in Poultry Pointers No. 10 and 14, keep records and report results.
2. Get 25 farmers to cooperate in following instructions on extension card, "Grow Healthy Pullets", keep records and report results.
3. Get five farmers using two or more of the points on extension card, "Steps to Reduce Laying House Mortality".

RESULTS

1. More than 150 Poultry Pointers No. 10 and 14 were given to interested poultry farmers but no record keeping cooperators were secured and no results reported.
2. More than 25 farmers were secured to follow instructions on extension card, "Grow Healthy Pullets". No records were kept and no results secured.
3. More than 50 farmers were secured to do this and which they followed.

To the poultry project the Agent devoted 79½ days, attended 27 meetings, published five news articles, issued eleven circular letters, received 708 office calls, and made 144 farm visits.

FARM MANAGEMENT

Nineteen poultry farmers were furnished account books and were assisted by the Agent in opening their accounts by helping take inventory. The monthly records were analyzed each month in the Extension Office and returned to the farmer with suggestions and information pertaining to their records and timely poultry advice. It is expected that 14 of the 19 farmers will complete the year and receive an analysis of their year's transactions. This project is continued every year and is a permanent part of the poultry extension program. It is valuable not only to the farmer cooperating but to the industry as a whole. The following circular letter is a sample copy of the informational type of letter sent out to the cooperators by the Agent:

Dear Cooperator:

Now is the time to plan for winter succulence for the laying pullets you will put into the house this fall. Yellow carrots are becoming more popular each year as a succulent feed for laying flocks. There are several reasons for this popularity.

The first and perhaps the most important reason is because carrots are an excellent source of vitamin A and do not contain anything that will cause the yolks of eggs to become dark. Carrots produce a high tonnage per acre and also a large amount of succulent feed for the land used, which is the second reason for their popularity. It is easy to store carrots so they will keep fresh and succulent and be appetizing to the birds.

Plan now to raise enough yellow carrots to feed your laying birds through the fall, winter, and spring. You will be well repaid for your efforts.

The following analysis has been made from the twenty-one records that were sent to the office during the month:

	<u>HENS</u>	<u>PULLETS</u>
Total bird days	151,718	290,607
Ave. No. birds for month	376.6	493.4
Total eggs laid	69,866	153,144
Dozens eggs laid	5,822	12,762
Percent production	46.5%	52.7%
Percent mortality	1.8%	1.6%
Percent culled	10.3%	6.59%
Feed cost per dozen eggs		11 $\frac{1}{2}$ ¢

Cooperatively yours,

F. W. FRASIER,  
COUNTY EXTENSION AGENT

#### CHICK AND PULLET DEVELOPMENT

During the past year the Agent has not been able to devote as much time to this type of work as he did before the AAA programs were made a major project of County Extension work. However, as much as possible the Agent has at poultry locals and through other mediums, such as the press stressed the following things:

1. Buy good stock.
2. Follow rations and feeding recommendations as outlined by the State College Poultry Council in their current poultry pointers which have become so popular with the poultry farmers.
3. Follow management methods outlined by the Poultry Council.
4. Brood chicks in lots of 500 or less.
5. Build wiree sunporches as a parasite preventative measure.
6. Build open air range houses for growing pullets in an effort to rear clean, healthy birds that will produce profits in the laying house.

The average mortality of chicks and pullets this year was approximately 5%. The quality of pullets reared was good. Uniform feeding methods in addition to careful disease control practices on the part of an increasing number of poultry farmers is resulting in good pullets being put into the laying house.



## FEEDING AND GENERAL MANAGEMENT

In this phase of the poultry work the Agent is laying emphasis on maintaining the proper ratio of mash to grain consumption of laying flocks to maintain body weight, health and egg production. It is too common a practice for poultry farmers to feed an unbalanced ration by the lack of information on how to properly feed scratch grain with the laying mashes. There is still considerable to learn on this point but there are certain fundamentals which cannot be overlooked if maximum profits are to be realized from high production hens.

The Agent, in many instances, this year encouraged poultry farmers to seriously consider the practice of July force molting of their yearling flocks. This practice is being adopted as a yearly practice by successful poultry farmers in the county and they believe it fundamentally sound and profitable to them. When farmers can force molt 1000 hens and receive 65% to 70% production during the months of September, October and November with very little loss and receive better than 80% extra grade eggs for an average they are able to make a greater profit on their original investment of baby chicks in a shorter period of time. Most flocks force molted in July are only kept until early Spring but some have been kept through until the following July at better than a 50% average lay.

## DISEASE WORK

Disease work has consisted primarily of making personal service calls to the farms diagnosing diseases, making recommendations, for their control and assisting farmers with their sanitation program.

Unfortunately promiscuous vaccination of flocks for infectious bronchitis has been practiced this past summer by a few individual interests. Only two known cases of true infectious bronchitis had been known of in the county prior to the vaccination work this summer on farms where the disease had never appeared. It is hoped by the industry that a serious outbreak in the flocks will not occur this winter as a result of the vaccination work.

The Agent has assisted the poultry farmers by furnishing them available information regarding the disease and warning them to carefully consider the dangers involved before introducing the disease on their farms. The Agent is acting as a member of a Pomona Grange Committee to assist the poultrymen and qualified veterinarians and representatives of the State Department of Agriculture to promulgate a poultry sanitary code which will be a medium of protection to the industry.

It is expected that the poultrymen aroused enough to the possibilities of danger in allowing contagious diseases to be unregulated to carry through a program which will be a protection to the industry. Diseased birds are at the present time being conveyed from and into every part of the county. It is from this problem in addition to control of highly contagious virus diseases that the poultry farmers need protection and they are going after it.

Diseases and parasites of poultry encountered by the Agent in his farm visits this past year are: Colds, tapeworms, round worms, leucosis, range paralysis, fowl pox, a form of summer bronchitis, lice, mites, limberneck, B.W.D., Coccidiosis, and miscellaneous individual troubles. Recommendations are always given when the Agent knows of something that will be helpful to the poultry farmer.

### MARKETING

It has been the aim of the Agent to stress important factors essential in marketing high grade eggs at all seasons of the year because herein lies one of the few physical ways in which a poultry farmer can increase his poultry profits. The difference between a few percent extra grade eggs oftentimes results in profit or loss and remaining in the business.

### HOUSING

More poultry houses have been built this past year than any time since 1929. Poultry Pointers No. 11, "The Washington Laying House" has been in constant demand all year and over 200 have been given out. It is interesting to note that the two story house is gaining, what the agent believes, is much deserved consideration. At least five, two story houses have been built this past year.

### POULTRY SCHOOL

The 15th Annual Whatcom County Extension Poultry School was held October 16th and 17th in the old Ferndale High School Gymnasium and auditorium with a total attendance for the two days of 170. This was the first time a poultry school was ever held in Ferndale.

The following program was the order of business of the Annual Institutes:

#### October 16th

10:00 A. M.	Opening the School—Mr. F. W. Frasier, County Agent.
10:05	"A Way to Raise Healthy Pullets" A Chart Talk—W.D. Buchanan.
10:50	Discussion.
11:00	Forum Discussion on Poultry Subjects.
12:00	Lunch served by Methodist Ladies' Aid at nominal charge.
1:00 P. M.	"The Protein Requirements of Laying Hens", A chart talk-- W. D. Buchanan.
1:45	Discussion.
2:00	Forum Discussion on poultry subjects.
3:00	Adjournment.

#### October 17th

10:00 A. M.	Opening the School--F. W. Frasier.
10:05	"Nests and Their Use", a Demonstration--W.D. Buchanan.
10:50	Discussion.
11:00	"The Economic Value of Top Grade Eggs"--Glen Anderson, Director Public Relations, Wash. Coop. Egg and Poultry Ass'n.
12:00 Noon	Lunch served by Methodist Ladies' Aid at a nominal charge.
1:00	"Ways to Improve Egg Quality and Income"--W. D. Buchanan.
2:00	Forum Discussion on Poultry Problems. / 9.

It was voted unanimously by the farmers and farm women attending the school to have the Extension Service hold another one next year.

The cooperation of the Businessmen's Club of Ferndale and the school authorities made it possible to hold the school in Ferndale this year.

#### MISCELLANEOUS

The Agent arranged Whatcom County itinerary for Professor J. S. Carver, Head, Department Poultry Husbandry, and his class of boys making a tour of Western Washington and attended part of it.

One-half day was spent assisting a local hatcheryman and V. J. Valentine with poultry work in Skagit County.

The Agent attended the summer meeting of the State Poultry Council at Puyallup on June 18th. Assistance was given the Department of Interior with inspection work of pullets which were to be purchased in the county for shipment to Alaska.



## OUTLOOK AND RECOMMENDATIONS

The acreage of vegetable crops for cannery purposes, including carrots, peas, beans, beets, and corn will unquestionably be increased in 1937. The Extension program should adequately consider the problems of the vegetable growers and help them by teaching proper cultural methods and disease prevention and control. This industry is growing and should receive more attention from an extension program.

The poultry industry with its more than 3000 producers has not had the assistance from the Extension program in 1935 and 1936 as in previous years because of the additional duties the Extension Agent has been called upon to perform in connection with Agricultural Adjustment and Agricultural Conservation programs. As a result farmers needing advice and assistance particularly from a personal service standpoint have been the loser thereby.

Whatcom County with the largest poultry population of the State of Washington and the United States and furnishing approximately 25% of all the eggs shipped to the Washington Cooperative Egg and Poultry Association has not in the past two years had a complete extension poultry program.

A 1937 Extension program of work for Whatcom County should include a comprehensive poultry project. The industry needs it. It is expected the poultry industry will grow in the next few years.

Suitable cannery varieties of raspberries adaptable to the climatic conditions and more resistant to disease than the Cuthbert would again make Whatcom a leading berry growing county. The Extension Program is working to this end by cooperating with the college in establishing trial plantings of new varieties this coming fall.

The maintenance and building up of soil fertility, presents a challenging problem to the Extension program. General more soil fertility on farms in the county has been removed from the soil than has been returned by the farmer. This needs to be reversed and a sound educational soil fertility program can do much toward bringing about such a change.

*County Commissioners on May 21, 1937  
(Emergency appropriation) \$400.00 (\$250.00 salary and 150.00 travel)  
approved 7-1-37 to 1-1-38 for assist.  
County agent in Poultry.*

PROJECT: MISCELLANEOUS

Five and one-half days were spent in preparing the 1934-35 Annual Report.

The Agent is devoting time periodically to building up the filing system in the office. Four days were devoted to cooperating with the W.P.A. on a rural recreational project. Except for meetings attended and related activities, nothing was definitely accomplished.

The Agent was in Pullman January 6th to 17th inclusive attending Annual Conference and an Extension School for County Agents respectively.

A small amount of time was given to Farm Debt Adjustment work. As a result of refinancing work through various channels the Farm Debt Adjustment work has not taken much time the past year.

The Extension Office cooperated with the Emergency Seed Loan people and handled their applications. The Agent assisted with the judging of the Blaine Flower Show which is sponsored by the Blaine Home Demonstration Club.

As Chairman of the Program Committee of the Farmer-City Dinner the Agent cooperated with the farmers in making it a success. The dinner was held at the Mt. Baker Union High School Wednesday evening, October 14th, with approximately 400 people in attendance. Dr. E. O. Holland, President, Washington State College delivered the main address.

The Extension Office cooperated with the Whatcom County Fair Board and the officials of the Harvest Festival in Bellingham in preparing premium lists, helping with exhibits, and securing judges. A poultry exhibit was prepared by the Agent for the Harvest Festival.

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The Agent wishes to acknowledge with thanks the helpful and kind assistance of all of the specialists from the State Office at Pullman. Without their assistance County Extension work would be a much more difficult task.

The cooperation of the Board of County Commissioners, the various farm organizations, and individual farmers and businessmen of the county has been excellent and a stimulus to the program.

The Extension Staff is looking forward to 1937 with an attitude of service to the people they serve. With another year of experience behind we should be able to contribute more to the welfare of farm and the farm home than we have during the past twelve months.

**PROJECT: AGRICULTURAL 4-H CLUB WORK**

Saturday, November 8, 1935, 9:45 to 10:15 A.M., Whatcom County 4-H Clubs put on a half hour broadcast during the National Farm and Home Hour over KOMO in Seattle.

On the three days, December 27, 28, and 30th, the 4-H club members who had completed their work were presented their pins. Four meetings were held with a total attendance of 375 club member, parents and friends. The meetings were held at Lawrence, Lynden, Custer, and North Bellingham.

The Agent attended the district 4-H meeting at Everett in March and took five local leaders with him. During the year the Agent attended and assisted at four meetings of the county wide 4-H Leaders' Council. The Council is a very important part of the county 4-H club program and is contributing a great deal to its upbuilding.

The 15th Annual 4-H Club Camp at the State College of Washington was held June 9th to 13th inclusive. There were a total of 48 club members, leaders, and Extension Agents from Whatcom that attended Club Camp. The Agent accompanied the delegation and taught a class during Club Camp. A rally for 4-H delegates to Club Camp was held at the Laurel Grange Hall a few days before leaving. The delegation won second place in the song contest.

The 4-H club members made a splendid account of themselves at the County Fair in Lynden this year by having a larger number of exhibits and a better quality than they did last year. The garden clubs and home economic club exhibits were especially outstanding and received much favorable comment. Mr. Harry Gleason worked in cooperation with the garden club leaders and improved the garden club display over last year. The cooperation of the 4-H club leaders in all departments was excellent and without their fine help before and during the fair, it would not have been possible to make such a splendid showing.

A fine contribution to the 4-H club program in the county was made by Mr. Harry Gleason in cooperation with others in the Extension Office by introducing a quarterly 4-H club news letter which contains announcements, club items, and other information which will help to make the 4-H clubs a closer working unit. A great deal of effort was put into this first issue particularly by Mr. Harry Gleason and Miss Holmes.

Mr. Gleason took a poultry judging team to the State Fair at Yakima where they placed second. The County Agent took the same judging team to the Western Washington Fair at Puayilup where they made a splendid account of themselves by taking first prize and placing second and third in individual scoring. This is the fourth year in succession for a Whatcom County poultry judging team to place first in the junior or senior division at the Western Washington Fair.

The policy of holding office conferences periodically among the staff to discuss and decide upon county wide 4-H activities is working out very well. This policy will be continued.



Thirty-one days were devoted to the 4-H program and 15 meetings were attended. Eight news stories were published; 3 circular letters, 15 farm visits made and 91 office calls received.

The following table shows the progress of 4-H club work in Whatcom County for the years 1932-1936:

	<u>ENROLLMENTS</u>			<u>COMPLETIONS</u>			<u>Percent</u>	<u>Total Value</u>	<u>Total Returns</u>
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>	<u>Boys</u>	<u>Girls</u>	<u>Total</u>			
1932	237	334	571	174	266	440	77.0%	\$18,257.55	\$7,235.66
1933	230	389	619	185	271	456	73.6%	13,981.07	5,371.91
1934	221	344	565	153	290	443	78.4%	12,411.72	5,916.95
1935	150	333	483	130	273	403	83.4%	11,737.25	5,202.35
1936	196	367	563	148	279	427	75.8%	12,554.15	5,382.03
1937	197	467	664	128	341	469	69.4%	12,004.67	4,181.97

The following is a list of 4-H club members completing their 1936 agricultural projects in Whatcom County:

# 4-H CLUB SUMMARY

PROJECT	ENROLLMENT		COMPLETIONS		VALUE	PROFIT
	BOYS	GIRLS	BOYS	GIRLS		
Bee	21	—	15	—	\$552.95	\$167.06
Food Preservation	1	13	1	8	**	**
Food Preparation	—	56	—	41	**	**
Baking	—	81	—	13	**	**
Dairy	65	6	46	5	\$4106.81	\$1057.47
Garden	114	38	89	29	\$5584.88	2852.77
Handy Homecraft	6	—	5	—	**	**
Poultry	15	5	14	3	\$5816.56	\$358.90
Room Improvement	—	55	—	27	208.61	110.99
Sewing	2	203	2	152	684.56	374.84
Yard Beautification	—	16	—	16	**	**
Home Efficiency	—	4	—	4	**	**
	222	403	172	298	\$12554.15	\$5382.03

Number different club members

ENROLLED		COMPLETED	
Boys	Girls	Boys	Girls
196	367	148	279

4-H AGRICULTURAL PROJECTS

GIRLS

NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Altona, Julia	R#1, Ferndale	Garden	2	\$44.25	\$39.75
Bailey, Betty Jean	R#2, Ferndale	"	1	23.45	17.01
Bailey, Lois June	R#2, Ferndale	"	1	23.14	16.50
Behme, Barbara	Custer	"	3	29.67	27.87
Bogue, Betty Jane	R#2, Ferndale	"	1	1.87	1.17
Elsbree, Carol	Acme	"	1	35.20	32.40
Fyles, Dawn	R#3, Ferndale	"	2	33.20	22.35
Gossett, Gladys	R#2, Ferndale	"	1	6.08	4.48
Gossett, Reta	R#2, Ferndale	"	1	11.35	10.10
Harriman, Laura	Ferndale	"	1	7.75	6.25
Hebert, Wanda	R#2, Ferndale	"	1	1.00	.70
Henderson, Ann	R#2, Everson	"	8	16.25	12.85
Henderson, Edna	R#2, Everson	"	10	16.00	12.60
Hills, Harriet	Custer	"	2	5.45	5.25
Jensen, Alta	Custer	"	3	15.77	10.80
Jensen, Esther	Custer	"	4	68.35	62.25
Lind, Jenny	R#1, Blaine	"	1	.60	.35
Martinson, Ethel	R#1, Blaine	"	1	4.28	3.95
Patrick, Arlene	Custer	"	2	21.00	19.60
Pettit, Mary Lou	Custer	"	3	30.15	26.85
Posthumus, Marie	R#1, Ferndale	"	5	50.00	35.50
Schons, Anna	Ferndale	"	2	26.70	24.45
Sinkler, Maude	R#3, Ferndale	"	2	54.25	51.09
Smith, Janette	Acme	"	1	2.60	1.00
Smith, Theodora	R#1, Blaine	"	1	.75	.60
Tarte, Beverly	R#1, Blaine	"	1	6.26	5.94
Von Euv, Nellie	R#1, Ferndale	"	2	497.25	458.25
Ward, Grace	R#2, Ferndale	"	1	5.00	4.80
Whalen, Virginia	Custer	"	2	3.68	.21
				<u>\$1041.30</u>	<u>\$ 914.90</u>
Fyles, Dawn	R#3, Ferndale	Dairy	2	\$25.00	\$ 5.00
Frasier, Emily	R#2, Lynden	"	8	35.00	4.61 Loss
Frasier, Harriet	R#2, Lynden	"	8	35.00	4.61 "
Schons, Anna	R#3, Ferndale	"	2	35.00	5.40
Shumway, Lois	R#2, Lynden	"	11	<u>24.98</u>	<u>2.98 Loss</u>
				<u>\$154.98</u>	<u>\$ 1.80 loss</u>
Caley, Harriet	R#2, Everson	Poultry	3	656.16	268.21
Germain, Eunice	R#2, Everson	"	7	604.31	45.81
McMurry, Edith	R#2, Everson	"	1	<u>83.13</u>	<u>14.17</u>
				<u>\$1343.60</u>	<u>\$328.19</u>



NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Baird, LaVerne	Nooksack	Yard. Beau.	3		
Boerhave, Hilda	Lynden	"	8		
Boerhave, Margaret	Lynden	"	7		
Buizer, Anna	R#1, Lynden	"	5		
Buizer, Elizabeth	R#1, Lynden	"	6		
Cloud, Elsie	R#2, Everson	"	1		
Elenbaas, Marian	Lynden	"	7		
Elenbaas, Winifred	Lynden	"	4		
Hamstra, Evelyn	Lynden	"	3		
Keepers, Vernus	Nooksack	"	3		
Ligecki, Sophie	Nooksack	"	3		
Little, Helene	R#2, Everson	"	6		
Miller, Faith	R#2, Everson	"	7		
Silla, Veda	Nooksack	"	5		
Todd, Charlotte	Nooksack	"	3		
Vander Griend, Jane	Lynden	"	4		

## 4-H AGRICULTURAL PROJECTS

## BOYS

NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Altena, Sidney	R#1, Ferndale	Garden	2	\$44.25	\$39.75
Ambrose, Walter	Wickersham	"	1	1.50	1.00
Austin, Arthur	Beach	"	1	1.00	.35
Bajema, Donald	R#2, Lynden	"	4	13.77	8.77
Bajema, Paul	R#2, Lynden	"	6	14.33	9.03
Bailey, Bruce	R#2, Ferndale	"	1	23.21	16.77
Bailey, Loyd	R#2, Ferndale	"	1	23.58	17.14
Banks, Bruce	R#1, Ferndale	"	3	18.05	10.45
Barci, Herman	R#3, Ferndale	"	2	12.85	9.85
Barci, Nelson	R#3, Ferndale	"	1	47.00	36.90
Behme, Hugh	Custer	"	3	28.87	27.04
Bender, Charles	R#1, Ferndale	"	2	20.03	16.53
Bedlington, Donald	R#1, Lynden	"	3	11.60	11.10
Bennett, Louis	Beach	"	1	2.80	2.25
Boehringer, Robert	R#2, Lynden	"	4	13.15	11.15
Boehringer, Howard	R#2, Lynden	"	4	12.65	11.45
Bruland, Norman	R#2, Ferndale	"	1	1.00	.75
Burgraff, Frank	R#2, Everson	"	1	12.34	7.69
Clevish, Junior	R#1, Bellingham	"	1	2.15	1.70
Chisholm, Hugh	R#2, Lynden	"	4	138.00	49.50
Coleman, Martin	R#1, Bellingham	"	1	4.65	2.75
Dahl, Einar	R#3, Bellingham	"	6	21.80	16.80
Eastman, Sylvester	Blaine	"	1	2.19	1.58
Frank, Clarence	Acme	"	1	5.37	2.07
Frank, Harry	Acme	"	1	4.90	4.00
Freeman, Lawrence	Blaine	"	1	1.70	1.00
Freeman, Donald	Blaine	"	1	1.70	1.00
Friske, Alan	Acme	"	1	2.59	1.49
Fullner, Raymond	R#2, Everson	"	5	67.50	53.05
Fyles, Charles	R#3, Ferndale	"	2	31.65	20.80
Fyles, Robert, Jr	R#3, Ferndale	"	2	32.40	20.05
Gates, Billy	Deming	"	1	11.00	2.00
Granger, Robert	Beach	"	1	3.99	3.74
Granger, Earl	Beach	"	1	1.50	1.20
Hatley, Lowell	R#2, Everson	"	1	137.25	59.25
Heanski, Albert	R#1, Ferndale	"	1	4.10	3.45
Heanski, Cecil	R#1, Ferndale	"	2	9.00	8.15
Hickinbotham, Albert	R#1, Blaine	"	1	3.75	2.70
Hong, Robert	R#1, Bellingham	"	3	10.10	9.50
Hougan, Arnold	R#1, Bellingham	"	2	5.75	3.75
Jensen, Ernest	Custer	"	1	18.93	14.23
Kley, Charles	Blaine	"	1	22.72	21.25
Kline, Jim	Deming	"	4	10.00	.90
Kline, Richard	Blaine	"	1	6.80	5.90
Knutzen, Jack	R#3, Bellingham	"	5	12.25	9.70
Lingbloom, Leslie	R#1, Bellingham	"	2	6.18	4.38
Long, David	R#2, Ferndale	"	1	2.40	2.20
Long, Thomas	R#2, Ferndale	"	1	.85	.65

NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Lyon, Jack	R#2, Everson	Garden	4	\$70.24	\$59.24
Lyon, Laurin	R#2, Everson	"	4	70.74	59.74
Martin, Donald	R#2, Bellingham	"	1	2.50	2.20
Masten, Stanley	R#2, Bellingham	"	1	30.00	25.00
Mickelson, Martin	Blaine	"	1	7.65	6.03
Mock, Dick	Wickersham	"	1	3.14	2.14
Monsen, Laurin	R#2, Everson	"	3	25.25	21.85
Nesset, Buddy	R#2, Everson	"	3	18.30	10.85
Nolte, Ernest	R#1, Everson	"	5	40.00	37.35
Osgood, Clarence	R#2, Lynden	"	7	41.00	30.40
Ousley, Kenneth	R#2, Bellingham	"	3	35.50	14.90
Oswald, Levern	R#1, Bellingham	"	3	34.85	30.15
Parsons, LeRoy	Wickersham	"	2	1.50	1.00
Parrish, Wayne	Custer	"	4	43.90	39.20
Patrick, Carl	Custer	"	2	23.75	22.25
Pettit, Glen R.	Custer	"	7	105.45	89.80
Pugh, Floyd	R#1, Ferndale	"	8	82.10	64.60
Ridenhour, Jackie	Wickersham	"	1	1.50	1.00
Seelye, Ernest	Beach	"	1	10.28	9.30
Schons, Michael	R#3, Ferndale	"	2	26.20	23.80
Schulz, George	Custer	"	4	25.25	18.75
Seelye, Roy	Beach	"	1	5.21	3.38
Shumway, Ray Jr.	R#2, Lynden	"	8	59.95	58.45
Sinkler, Allen	R#3, Ferndale	"	2	54.85	41.85
Sornberger, Glen	R#2, Everson	"	5	55.50	40.50
Smith, Jimmie	Acme	"	1	20.15	18.40
Stithem, Raymond	Deming	"	4	40.00	34.50
Streets, Melvin	Custer	"	3	22.45	19.15
Sturtz, John	R#1, Ferndale	"	3	22.50	18.80
Stott, Bruce	R#1, Bellingham	"	1	5.35	5.05
Syre, Homer	R#2, Everson	"	3	44.65	33.22
Syre, Sylvan	R#2, Everson	"	6	38.50	15.85
Telgenheff, Lawrence	R#1, Ferndale	"	1	10.40	5.30
Toler, Gerald	R#3, Bellingham	"	4	137.30	131.20
Tharpe, Ed.	Ferndale	"	1	3.85	3.55
Unick, Earl	R#3, Ferndale	"	2	13.95	12.55
Vaughn, Donald	Custer	"	5	71.20	61.85
Willett, Gerald	R#1, Ferndale	"	2	225.00	214.85
Wahl, Orville	R#2, Everson	"	3	116.00	53.80
Wright, Floyd	R#1, Blaine	"	1	1.30	1.11
Wright, Tom	R#1, Blaine	"	1	11.00	9.25
				<u>\$2543.36</u>	<u>\$1917.87</u>



NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Bedlington, Gordon	R#1, Lynden	Dairy	5	\$38.00	\$13.00
Bruce, Maurice	Everson	"	2	178.00	33.09
Bussard, John	R#1, Lynden	"	9	205.00	9.85
Caley, Lloyd	R#2, Everson	"	1	15.00	3.00
Corfee, Wayne	R#2, Everson	"	3	213.60	44.10
Crabtree, Colby	R#1, Lynden	"	9	65.00	6.40
Crabtree, John	R#1, Lynden	"	9	100.00	3.70 Loss
Crabtree, Gerald	R#1, Lynden	"	8	50.00	18.35
Cramer, Kenneth	R#2, Lynden	"	7	15.00	3.15
Douglas, David	R#1, Bellingham	"	1	8.79	3.48
Fyles, Charles	R#3, Ferndale	"	2	50.00	14.05
Fyles, Robert, Jr	R#3, Ferndale	"	2	25.00	13.03
Gray, Robert	R#2, Everson	"	1	25.00	14.34
Germain, Burton	Everson	"	7	20.00	19.45 Loss
Otto Graep, Jr	R#1, Everson	"	8	221.69	45.62
Hall, Paul	R#2, Bellingham	"	1	25.00	10.80
Hansen, Wallace	R#2, Bellingham	"	4	25.00	3.01
Holcomb, Bob	R#2, Lynden	"	3	151.50	62.50
Holcomb, Lawrence	R#2, Lynden	"	2	42.50	16.90
Hong, Robert	R#1, Bellingham	"	3	25.00	3.40
Horat, Karl	R#2, Lynden	"	5	125.00	42.60
Howell, Blair	Deming	"	4	194.09	60.99
Hunt, William	Nooksack	"	3	45.00	12.23
Lenhart, Leslie	R#2, Lynden	"	4	55.00	15.20
McDonald, Alex	R#1, Ferndale	"	1	25.00	4.25
McMurry, Kenneth	R#2, Everson	"	3	30.00	5.59
Nipges, Eddie	R#1, Lynden	"	1	25.00	.86 Loss
Nolte, Ernest	R#1, Everson	"	5	150.00	5.95
Nolte, William	R#1, Everson	"	1	35.00	10.00
Oltman, Charles	R#2, Lynden	"	1	25.00	5.08
Osborn, David	R#1, Ferndale	"	1	20.00	7.95
Ousley, Kenneth	R#2, Bellingham	"	3	25.00	6.43
Oswald, Levern	R#1, Bellingham	"	3	17.30	.70
Paige, Herbert	R#2, Bellingham	"	1	40.00	14.80
Pearce, Warren	R#2, Bellingham	"	4	35.00	3.80
Pugh, Floyd	R#1, Ferndale	"	8	714.16	339.31
Roosendaal, Albert	R#2, Lynden	"	4	183.37	70.12
Schons, Michael	R#1, Ferndale	"	2	50.00	10.70 Loss
Ray Shumway	R#2, Lynden	"	8	50.00	18.60 Loss
Staglund, Wallace	R#1, Lynden	"	1	20.00	1.59 Loss
Stithem, Bobby	Deming	"	4	25.00	2.50
Vander Mey, Herman	R#1, Sumas	"	1	30.00	5.08
Verduin, Stephen	Lynden	"	1	25.00	1.45
Wagner, Ernest	R#2, Lynden	"	6	20.00	1.75
White, Clifford	Sumas	"	6	453.83	194.05
Wildberger, Welton	R#1, Sumas	"	1	35.00	21.55 Loss
				<u>\$3951.85</u>	<u>\$1059.27</u>

NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Bender, Charles	R#1, Ferndale	Poultry	2	\$43.91	\$21.49
Bronkema, Bernard	Lynden	"	1	16.00	5.00
Bronkema, Ted	Lynden	"	1	36.00	11.00
Crabtree, Gerald	R#1, Lynden	"	8	39.40	21.05
Germain, Burton	Everson	"	7	282.68	122.96
Heanski, Cecil	R#1, Ferndale	"	2	23.28	11.72 Loss
Howell, Edward	Deming	"	4	1030.58	96.73
William Hunt, Jr	Nooksack	"	3	137.49	94.26
McKelvey, Troy	Nooksack	"	1	33.20	10.30
Pierce, Ray	Custer	"	3	229.59	8.54
Pugh, Floyd	R#1, Ferndale	"	8	259.24	93.28
Willits, Fred	R#2, Blaine	"	5	24.90	3.55
Willits, Jack	R#2, Blaine	"	5	26.95	5.37
Woodard, Laine	Nooksack	"	1	89.74	29.30
				<u>\$2272.96</u>	<u>\$510.71</u>

Bailey, George	R#1, Lynden	Bee	7	\$31.75	\$ 6.05
Banks, Bruce	R#1, Ferndale	"	3	26.45	10.59
Eberley, Lee	R#2, Blaine	"	1	8.50	8.00
Eberley, Ward	R#2, Blaine	"	1	7.36	6.97
Fyles, Robert	R#3, Ferndale	"	2	28.51	9.54
Hammond, Lewis	R#2, Bellingham	"	5	18.30	3.70
Lingbloom, Philip	R#1, Bellingham	"	4	39.05	23.90
Lindquist, Elmer	R#2, Bellingham	"	1	10.75	1.00
Pierce, Ray	R#1, Custer	"	3	7.00	2.00
Simons, Elmer	R#2, Blaine	"	6	18.85	3.60
Simons, Howard	R#2, Blaine	"	1	9.03	.50
Strandberg, Russell	R#2, Bellingham	"	7	89.40	66.35
Willits, Fred	R#2, Blaine	"	5	23.90	6.22
Willits, Jack	R#2, Blaine	"	5	19.15	7.29
Willetts, Gerald	R#1, Ferndale	"	2	16.95	11.35
				<u>\$352.95</u>	<u>\$167.06</u>

NARRATIVE REPORT OF HARRY D. GLEASON  
ASS'T EXTENSION AGENT  
For the Period  
January 1, 1936 to October 31, 1936

PROJECT: AGRICULTURAL 4-H CLUB WORK

DAIRY, POULTRY, BEE, GARDEN, AND FLORAL.

JOB FOR YEAR

1. Increase poultry club membership by five members.
2. Re-enroll 12 bee club members.
3. Increase by twenty, garden and floral club members.
4. Foster demonstration and judging teams.
5. Assist members in preparing products for the fair.
6. Maintain percentage of completions to 83.4%
7. Increase dairy club enrollment by 30 members.
8. Train three dairy judging teams.
9. Train one dairy demonstration team.
10. Strive for 90% completions in dairy club project.

RESULTS

1. Eighteen members enrolled in 1936; thirty-one in 1935.
2. Fifteen members enrolled in 1936; twelve in 1935.
3. One hundred sixty-eight enrolled in 1936; 101 in 1935.
4. One poultry judging team was trained and two garden club teams. All judged at fairs.
5. This was done.
6. Percentage dropped to 75.8%
7. Sixty-nine enrolled in 1936; 44 in 1935.
8. Spent one day on a 4-H dairy tour.
9. Was not done.
10. 77.1% completed in dairy project.

During the first part of the year the Agent cooperated with the County Agent in all the Extension Programs, but as the year progressed much of Mr. Frasier's time was taken up by the Soil Conservation Programs and the Agent gradually took the 4-H club work over with the aid of Miss Arnquist, Home Demonstration Agent and Mr. Frasier, County Agent.



The Agent spent considerable time the first part of the year getting clubs lined up and securing leaders. The Agent has attended all of the Northwest District Leaders' Council Meetings. The first one was held at Everett on March 14th, and the second one was held at Redmond on August 8th. The Agent took part in the latter meeting by leading a discussion on demonstrations.

The Agent assisted with the delegation to the State Club Camp at Pullman. Thirty-nine boys and girls and leaders attended.

The Agent went to Skagit County and spent a day and a half on observing the annual outing for boys and girls which is given each year. The purpose of the agent attending was to observe and take notes on the set up of the club outing. Whatcom County is thinking about holding a similar outing for the 4-H members in Whatcom County. The Agent took the initiative in starting a 4-H club paper which proved to be very interesting and helpful to the leaders and members. It is planned to publish the paper quarterly. A copy of the first paper is enclosed with this report.

The Agent took the responsibility to see that the 4-H club survey of former 4-H members was taken by sending out the survey blanks from the office. Many of the blanks were returned and it gives a very nice prospective leaders list to work from. We had about a 25% return on the blanks which were sent out.

The annual county wide 4-H club picnic was held in August at Lake Wiser which was attended by 200 leaders and members.

The Agent assisted with the Northwest Washington Fair at Lynden and acted as Superintendent of the Dairy 4-H Department and also helped in the general club exhibit.

Two judging teams were trained and taken to the Puyallup Fair for judging land products. The Agent also took a 4-H Poultry Judging Team to the Yakima State Fair winning second at that fair with the team. The team was trained by Mr. Fred Frasier, County Extension Agent.

The Agent held a judging tour for all the 4-H dairy club members. It is planned next year to hold three similar tours and the fourth one to be held at the county fair.

The Agent tried to contact each leader twice or three times during the summer and attended at least one meeting of the club. It is hoped that this can be done again another year.

The Agent checked all the record books turned in by 4-H club members in the agricultural projects.

PROJECT: DAIRY

JOB FOR YEAR

1. Make two safety bull pens.
2. Survey bull situation in county and maintain records on herd sires.
3. Place 5 purebred bulls with records of 400 pounds or better in dairy herd.
4. Prove two dairy bulls.
5. Increase number cows on test by two hundred.

RESULTS

1. At least one made and perhaps more not known of.
2. Interested, but not being under my work, was turned over to D.H.I.A Supervisor.
3. Was not done.
4. D.H.I.A. Supervisor's job. Agent Helped when possible.
5. The Agent referred owners interested in testing to D.H.I.A. Supervisor.

The Agent spent more or less time with the dairy program in the county, but as Mr. Guy C. Anderson, Assistant Extension Agent in Dairying, handles the dairy program almost entirely, the Agent helps in any way possible with the dairy work. The Agent helped Mr. T. R. Warren, Field Representative for the American Jersey Cattle Club in conducting a jersey tour and also sent out notices regarding the tour. Also helped with the winter meeting of the Jersey Breeders Association and assisted H. A. Mathiesen, representative for the Holstein-Friesian Association in locating holstein breeders and giving general breeding and dairy information to them.

The Agent also assisted Mr. Guy C. Anderson in planning and conducting a general farm crop tour in June. Dr. Otto J. Hill, Extension Dairyman and Mr. Leonard Hegnauer, Extension Agronomist, were present and gave some very interesting and helpful suggestions on dairy and farm crops problems. About 35 farmers attended this tour and many intimate questions were raised. The following is a copy of the program carried out:

9:30 A. M. J. A. Porter Farm—a proved dairy herd sire and his 20 daughters studied.

10:30 W. H. Jackman Farm—10 acres of excellent alfalfa on upland soil.

11:00 Henry Bierlink Farm—Pasture and fertilizer plots.

11:30 George Stierlen Farm—12 acres Reeds Canary Grass.

1:00 Speaking program after 12 o'clock lunch.

2:30 Ralph Van Dyke Farm—New 10 acre pasture seeding and new manure shed.

## BULL ASSOCIATION WORK

The Agent spoke at different occasions on the possibilities and advantages of starting cooperative bull associations in the county and also presented dairy material to dairy locals which are in the county. In October, slides on production of clean milk were presented by the Agent and many favorable comments were heard.

In connection with the bull association work, the Agent carried on a limited campaign on a safety bull pen. A model safety bull pen was made by the Agent and exhibited at the County Fair at Lynden. Over fifty bulletins were distributed on account of the model which was exhibited.

The Agent was asked by the Harvest Festival Committee to put on a dairy booth. The Agent secured the cooperation of local merchants and set up a general dairy booth representing both production and manufacturing processes of the milk industry. The Agent stayed with the exhibits three days and answered any questions concerning the dairy industry, production and processing of milk.

### PROJECT: HORTICULTURE

The Agent devoted part of his time to horticulture taking care of many of the horticultural calls which the Extension Office received. The Agent has kept in close touch with the certified seed potato growers from the disease standpoint. The Agent spent one day at the Skagit County potato seed test plots studying the diseases of potatoes in the plots.

The Agent also attended the filbert tour which was held on August 3rd being conducted by the Extension Service.

Because of requests from garden club leaders and other people exhibiting vegetables at the fair, a vegetable score card with suggestions on preparation of vegetables for exhibiting at fairs was worked up by the agent at the request of Mr. Fred Frasier and with the very able help of Mr. Louis King. A copy of the score card is attached to the Agent's report.

### PROJECT: FARM ACCOUNT WORK

The Agent in January visited the farm account cooperators and worked up summaries for the year. There are eleven cooperators keeping accounts and three more were added during the last year. These men seem very interested and we have some real cooperators among the people.

The Agent has talked with several dairymen relative to dairy enterprise studies. It is hoped that the Agent can get a number of dairymen to cooperate in the enterprise next year.



PROJECT: AGRONOMY (SOILS AND CROPS)

### FERTILIZER PLOTS

The Agent working in cooperation with Mr. L. C. Wheeting, Associate Professor in Soils, Mr. Leonard Hegnauer of the Extension Service, Mr. Fred Frasier, County Agent, and Mr. Guy C. Anderson, Assistant County Agent in Dairying arranged for three fertilizer plots.

The Agent tried to pick out good cooperators in the project and also to get the plots on representative soil types of the county. It was the original plan of the agent to have three plots—two ratio and one combination manure and commercial fertilizer. The Agent did not get a chance to put on the combination plots because of the cold weather which we had late in the spring and it froze out the sod which we had intended to use.

The first cooperator was Mr. Henry Bierlink, located four miles northwest from Lynden on a Custer silt loam, where a ratio plot fertilizer demonstration was carried on. Mr. Bierlink had three, five acre fields which he used as rotation pasture. His practice is to cover the fields each spring with barnyard manure. Mr. Bierlink agreed to let the agent put the plots on a five acre piece nearest the road and also not to put barnyard manure on the plot. The pasture consists of a mixture of native grasses, and red and white clover, which previously had been a hay field. The plot was staked off into fifteen, 20.9 square foot plots with the very able help of Mr. Gene Schuh, Rural Representative for the Puget Sound Power and Light Company. (The diagram will show the details and rates of application to different plots). The fertilizer was applied the 19th day of March, 1936. The pasture had just begun to grow and a light turf of moss was in with the sod.

Observations were made at regular intervals to note the growth of the grass. When the cows were turned in on the pasture, they kept the grass picked down so close on the fertilizer plot that little results could be obtained. The commercial fertilizer brought the grass on faster than the barnyard manure, and the cows eat the grass on the commercial fertilizer plots in preference to the barnyard manure grass on the rest of the five acres. The agent also noticed that the moss disappeared after both the barnyard and commercial fertilizers had been applied. The owner of the land stated that he had had a similar experience with cows eating grass from commercial fertilizer ground in preference to that on which barnyard manure had been put on.

The Agent was unable up to the time this is written to observe any definite results obtained from this plot. It is hoped to continue the same plots next year and then note some real differences. The commercial fertilizer plots showed that an early start can be secured from grass and that the cattle relish it better than where barnyard manure is applied. The Agent made a mistake by pounding the stakes too far into the ground and this gave some difficulty, but the stakes have now been raised and it should prove a very useful plot another year.

Plots are 20.9 feet square, making the area of each equal 1/100 of an acre. 3 foot borders are left between the plots.

<u>Plot No.</u>	<u>Nitrogen</u>	<u>Superphosphate</u>	<u>Potash</u>
1.	0#	80#	80#
2.	20	80	80
3.	40	80	80
4.	60	80	80
5.	80	80	80
6.	Check Plot—No treatment.		
7.	40	0	80
8.	40	40	80
9.	40	120	80
10.	Check Plot—No treatment.		
11.	40	160	80
12.	40	80	0
13.	40	80	40
14.	40	80	120
15.	40	80	160

The other plot secured was that of Mr. Carl Brown's place located two miles north east from Nooksack on Lynden silt loam soil. The crop here instead of pasture was a second year stand of alfalfa being a new seeding in the spring of 1935. The same kind of a fertilizer plot was used and the same rate of application as was used on the pasture plot. The plots were laid off in February with the help of Mr. Leonard Hagnauer, Extension Agronomist.

The fertilizer was applied the 11th of March. The young alfalfa had just begun to grow new shoots from the crowns. Soon after the fertilizer was put on a very cold snap hit again and the young fast growing shoots were killed. The Agent visited the plot several times during the spring and the freeze was severe enough so that the plots were frozen quite badly, but the rest of the field was not hurt. Wild mustard and turnips grew up immediately after the alfalfa was gone, and Mr. Brown thought at first that the seed had been brought in with the fertilizer but it was the fact that the alfalfa had kept the mustard down as mustard was noted in other parts of the field not included in the fertilizer plot.

It is the plan of the Agent to continue the plot another year as no definite results could be obtained under conditions as this. The plots were seeded over with alfalfa and a new and very good stand is again growing on the plots.

No definite conclusions could be drawn, but it is planned to put fertilizer on later this year and perhaps secure better results.

#### ROW GRASS PLOTS

The seed for the Row Grass plots was secured from Mr. Leonard Hagnauer. We had about twenty kinds of seed. Mr. Frasier, County Agent secured the cooperation Of Mr. Louie Bruemmer who lives four miles southwest from Everson. The soil is a Lynden gravelly loam. The space that we secured was in Mr. Bruemmer's filbert orchard. We took up the space between two rows of trees which was a distance of twenty feet and the ground had been sumer fallowed all during the spring. It was agreed that if we would keep the plot clean of weeds and cultivate it we could have as much ground as was needed and the ground was thoroughly raked to remove as many of the stones as possible.

The rows of grass seed were run east and west and the filbert trees ran north and south. The rows were made with a hoe and were spaced 18 miles apart. The seed was planted the 14th of May by Mr. Frasier and the Agent. The plots were visited at frequent intervals by Mr. Frasier and myself. The grasses all came up well and had an excellent growing season as we had plenty of rain the early part of the summer. The plot was weeded and hoed by the agent three times during the summer.

Below are listed the grasses planted with notations on one seasons observations:

1. Seaside Bent.

- a. Viability of seed: Very good and a thick stand came up.
- b. Rate of growth: Grew rather slowly the first part of the year, but in November it has begun to spread.
- c. Nature of growth: The bent on the high land has a spread of 18 inches and is about 4 inches high now. Running shoots are coming out now.
- d. Stage of maturity: The seaside bent has not to date gone to maturity.
- e. Observations: If the winter does not kill it out and it will stand the dry weather, it should make a good pasture if it does not get too tough.

2. Astoria Bent.

- a. Viability of seed: Very good.
- b. Rate of growth: A very steady growth all summer. It compared favorably with the seaside bent in growth.
- c. Nature of growth: It grew up much higher and erect than the Seaside. It is now about 6 inches tall.
- d. Stage of maturity: Did not mature.
- e. Observations: The sheaves of the plant are dead and turning black. It does not appear as though this grass would make a very good fall pasture because of the dead material.

3. Idaho Fescue.

- a. Viability of seed: Very good.
- b. Rate of growth: Grew very good during the first part but at present is not growing.
- c. Nature of growth: The grass is about 6 inches high and is falling down.
- d. Stage of maturity: Did not mature.
- e. Observations: Made a very good growth, but appears rough and harsh as a pasture grass. It is very thick and has a dark color.

4. Chewings Fescue.

- a. Viability of seed: Very good.
- b. Rate of growth: It grew about 7 or 8 inches high and is still growing, but will not continue long.
- c. Nature of growth: Very much like Idaho Fescue--very thick stand.
- d. Stage of maturity: Has not matured.
- e. Observations: It appears to be a little more palatable than Idaho Fescue and also has a greener color.



5. Agropyron Inermi.

- A. Visibility of seed: Very good stand.
- b. Rate of growth: It grew very good all summer and is now one foot high.
- c. Nature of growth: Upright and the stems are now dry.
- d. Stage of maturity: Headed out and gone to maturity.
- d. Observations: It grew very rank and it might make a fairly good hay grass if it stands the winter.

6. Sweet Vernal Grass:

- A. Visibility of seed: Very good.
- b. Rate of growth: Grew very good the entire summer.
- c. Nature of growth: It is growing good now and is about 8 inches high. It has fallen over and it covers a distance of 14 inches wide.
- d. Stage of maturity: Has not matured.
- e. General observations: It is very palatable and has a light green color and looks like it could be a good pasture grass under some conditions.

7. Harding Grass.

- a. Visibility of seed: Very good.
- b. Rate of growth: Grew very fast and at present is 18 inches high.
- c. Nature of growth: Grows erect and straight and very thick.
- d. Maturity: It has gone to maturity and produced seed.
- e. Observations: It appears to be a very good hay grass if harvested at the right time of maturity.

8. Bromus Inermis.

- a. Visibility of seed: Very good.
- b. Rate of growth: It grew about all summer and attained a height of 20 inches.
- c. Nature of growth: Erect.
- d. Stage of maturity: Mature and produced seed.
- e. General observations: Many of the leaves are turning rusty and at present it does not look to be a very good pasture grass. Earlier in the season it would be a good hay or pasture grass.

9. Poa Bushosa.

- a. Visibility: It seemed to come up good.
- b. Rate of growth: It grew a little at first and then quit. It does not show very up very well yet.
- c. Observations: It did not seem to stand the summer. It did not die but the results are discouraging. It is starting up a little now, but as yet does not look good.

10. Timothy.

- a. Visibility: Very good.
- b. Rate of growth: Grew steady all summer, and attained a height of ten inches and was very thick.
- c. Maturity: It has gone to seed.

11. Red Top:

- a. Visibility: Very good.
- b. Rate of growth: Grew entire summer; eight inches high.
- c. Maturity: Did not mature as yet. The Red Top has lots of dead material in it at present and does not look good, but during the summer it looked fine.

12. Orchard Grass.

- a. Visibility: Very good.
- b. Rate of growth: Grew very well and attained a height of 10 inches.
- c. Maturity: Some of it is going to maturity, but it is still green and is beginning to bunch up.

13. SandbergBluegrass.

14. Kentucky blue grass.

15. Nevada bluegrass.

- a. The blue grasses as a whole did not turn out well this summer. The Sandberg blue grass came through alright, but this fall only about a dozen stocks are left. Much of the blue grass died out, and the results on all three of the bluegrasses are not very satisfactory. A few of the Sandberg stocks matured.

16. Slender Wheat.

- a. Visibility of seed: Very good.
- b. Rate of growth: It grew good all summer and is about a foot high.
- c. Maturity: It has matured but is still green and palatable.
- d. Observations: This grass seems to be a very promising grass and we are well pleased with it.

17. Crested Wheat.

- a. Visibility: Very good stand.
- b. Growth: Did not grow as well as slender wheat but made a fairly good growth. It has a tendency to be more prostrate than Slender Wheat.
- c. Maturity: It has not matured.
- d. Observation: It may do better another year, but it does not compare in our estimation to slender wheat, but may be a better pasture grass than slender wheat.

18. Tall Fescue.

- a. Visibility: Very good.
- b. Growth: It is a very rank grower, and grew good all summer. It is one foot high and about 16 inches wide.
- c. Maturity: It has matured.
- d. Observations: It grew good all summer, and looks very good as a forage plant.

19. Highland Reed Canary:

- a. Visibility: Very good.
- b. Growth: The highland Reed Canary Grass grew about a foot high, and grew well all summer. It is very thick and has not matured, but it is a very promising grass for upland pastures.

20. Tall Meadow Oat.

- a. Visibility: Very good.
- b. Growth: The tall meadow oat grass grew to a height of 16 inches and has gone to maturity. It was very crowded in the row, but it is a very promising high land grass and can be used for hay.

21. Blue Tag Grimm  
& Red Top Cossack.

These two alfalfa were planted in a row without inoculation; both of them are growing good, and so far no difference can be found. By next spring better results will be available on the alfalfa.



The Agent made several calls on fertilizer work and forage crops in the county. The Agent talked at the Blaine Poultry Local in regards to forage crops also. Most of the Agent's time has been spent on fertilizer and seed plot work which is evident by the preceding information.

PROJECT: AGRICULTURAL ADJUSTMENT ADMINISTRATION.

COUNTY PLANNING MEETINGS

The Agent assisted Mr. Fred Frasier, County Agent and Mr. Guy C. Anderson, Assistant County Agent in Dairying in planning and carrying out county planning meetings. Seven meetings were held in all and the Agent presented the dairy part of the program at all the meetings but two and Mr. Guy C. Anderson, presented these two. Many interesting and helpful suggestions resulted from the meetings. The Agent attended all seven meetings.

AGRICULTURAL SOIL CONSERVATION

The Agent spent thirty-nine days on soil conservation programs. He attended the conference at Pullman on April 3rd and 4th regarding the Soil Conservation program. The explained the program and presented material at community meetings which were held in the county. The Agent assisted Mr. Frasier and County Committeemen in holding seven sign-up meetings for work sheets in the different communities regarding this program. Also helped sign up many work sheets in the office.

Assisted Committees in checking over work sheets submitted by farmers in several communities. Helped Mr. Cook, the engineer, in training two measuring crews.

Towards the close of fall, the Agent did not follow the Soil Conservation Program so closely but devoted the greater part of his time to 4-H club work.

PROJECT: MISCELLANEOUS

Very little work is called for along the swine and livestock line, but the Agent is assisting Mr. John Bierlink in weighing his pigs for a ton litter which he is trying to get in five months.

Took care of a number of calls from people living in the East regarding prices of land in Whatcom County.

One day was spent in getting pictures for the Chamber of Commerce to use in advertisements by the railroads in the pacific northwest.

Very little was done towards poultry as all poultry work is cared for by Mr. Frasier.

NARRATIVE REPORT OF GUY C. ANDERSON  
ASSISTANT EXTENSION AGENT

November 1, 1935—November 1, 1936.

PROJECT: DAIRY HERD IMPROVEMENT

HISTORY

The Whatcom County Dairy Herd Improvement Association is completing its fourteenth year of continuous service. This association was organized in the fall of 1922 and began to function in January, 1923. It was organized on a plan which would render service to a greater number of dairymen at a lower cost per cow than was possible under the standard plan of testing. The dairymen have been instructed in the correct methods of weighing and sampling the milk, and they are doing this work, thus permitting the man in charge of the testing to care for from ten to twenty herds every two days. Sample bottles, barn sheets, and detailed reports of the previous months production are taken to each member's farm on one day and samples are collected from these same farms the following day and tested at a central testing station. The tester thus contacts the members of the association once or twice each month.

This plan permits the man with two or three cows to receive the same benefits from herd improvement work as the dairyman with thirty or forty cows. The testing fee is \$1.00 per cow per year, dues are collected at the end of each quarter through orders on the creameries.

This plan of testing is called the Whatcom Plan. It is very well suited for use in counties having many small herds and a good system of roads. No publicity is given individual herd records, thus eliminating the temptation to take unfair samples or weights.

The following table shows the growth of the association in Whatcom County:

<u>YEAR</u>	<u>HERDS</u>	<u>COWS</u>
1923	125	1478
1924	165	1730
1925	155	1487
1926	200	1881
1927	206	2087
1928	208	2227
1929	210	2227
1930	254	2517
1931	178	1812
1932	135	1184
1933	124	967
1934	95	839
1935	120	11123
1936	141	1373

This table shows a steady growth in number of herds and cows with the exception of 1925 up until 1930 when there was an increase caused by the break in markets in the fall of 1929. The drop in butter price then was not severe, but it did cause men to study their business more closely. In 1931 the price of butter dropped from 30 to 40 percent lower than it was in 1930 and for the next two years it continued downward until the market remained around 19 cents per pound for nearly two years. In 1934 the market again rose and the trend has been upward since. This table shows that numbers of herds on test is influenced greatly by the price of the dairy products. With reasonable returns for the products there is an increase in testing work.

#### PROJECT: FARM CROPS

Recent trends in commodity prices have demonstrated the necessity of dairy farmers raising a larger percentage of their dairy feeds. Whatcom County with its small farms and relatively high land values is not adapted to grain growing; therefore, the Extension Service has encouraged the growing of larger amounts of the various roughages suitable for dairy cattle. We are advising the growing of more of the legume hays where practical and in cases where grass hays must be grown have advised harvesting these in their early stages thus securing a more palatable hay with a higher protein content.

The writer has for years encouraged the use of both sweet and field corn as a source of fall green feed which can supplement the drying pastures so well. We have noted a marked increase in the use of corn both for green feed and silage the last few years.

The writer has advised small plantings of fall rye for the use of those dairymen who do not have real early pasture or alfalfa for the early spring feed.

This summer a small quantity of billion dollar grass was purchased in Wisconsin and trial plantings were made in five different parts of the county. These trial plots were rather promising. This grass is a relative of the millet family. It is seeded between May 15th and July 1st and is ready for pasture in about five weeks or may be cut for green feed in about six weeks. It grows rapidly through the warm summer furnishing much pasture or several crops of green feed. It is an annual and kills with the first frost in the fall.

The writer feels that it has much promise as a summer feed on many dairy farms and has arranged for a local firm to stock the seed for 1937. One dairyman has made plans to seed six or seven acres next summer. He will probably seed this in June on ground which has just had the rye removed. One of the trial plots (1½ acre) this year was seeded June 11th on ground from which fall sown rye had just been removed. Good pasture was available in five weeks time. This grass is very palatable.

#### PASTURES

Many excellent permanent pastures have been established in Whatcom County during the past ten or twelve years. Mr. H. B. Carroll, as County Agent, took a leading part in pasture improvement work. Through him the assistance of the Bankers' Association was secured. They were active several years in promoting the work. The writer's monthly contacts with about one hundred and fifty dairymen has given him an opportunity to discuss pasture problems with them each year. Assistance has been rendered in putting down new seedings as well as in the care of the old pastures.



## CROP TOURS

For a number of years it has been the practice for the County Extension Service in cooperation with the State Extension Service to conduct a crops or a dairy and crops tour each spring.

The past two years the writer has had charge of the program for the Whatcom County Tour. This year assistance was given by Mr. Harry Gleason, Assistant Extension Agent.

In planning this tour we tried to select farms where some approved farm practice had been adopted. In the short time allotted, the tour could not include all of the practices which we should have wished to include.

The first farm visit was at the J.A. Porter farm at Custer where we saw a very good proved herd sire and 27 of his daughters. This was a real illustration of what a good dairy sire can do for a dairyman. These daughters as a group were an improvement in type over their dams. The first five daughters which have completed their first lactation have made an average gain in butterfat production of 48.9 pounds of butterfat over their dams two year old records. The ten daughters in milk in April this year averaged 6 percent in their test. The sire is now eight years old and is still of good type and an excellent breeder.

The second stop was made at the W.H. Jackman farm where we found Mr. Jackman in the midst of his harvesting of ten acres of excellent alfalfa grown on upland soil. This soil type is the same as a large area in Whatcom County and we feel that what has been accomplished by Mr. Jackman can be accomplished by hundreds of other farmers. Mr. Jackman told of his experiences with alfalfa, his method of preparing the soil, seeding, cultivating, etc.

At the third stop we saw a fertilizer plot which Mr. Gleason had layed out on some pasture ground. Here we also observed the pasture rotation practice which Mr. Bierlink is following. There were three five-acre pasture plots. These were being pastured a week at a time thus the cows had splendid pasture all the time.

The fourth stop was made at the George Stierlen farm where we saw twelve acres of Reed's Canary grass pasture. Five acres of this pasture had been down eight years and the rest was of later seeding. Mr. Stierlen explained how he had prepared his seed bed and made the planting. He explained that the stand of grass was thin at first, but that it thickened up each year. This pasture is clipped several times each season in order that tender grass may be available for pasturing. This field was formerly so wet that ordinary farm crops could not be grown successfully.

Many farms in Whatcom County have a few acres of wet lands which cannot be drained. These wet areas could be used for Reed's Canary grass to an advantage.

After lunch short talks were made by Professor Hegnauer and Dr. Hill.

There was one farm visit made after lunch. This was at the Ralph Van Dyke farm where we saw a new seeding of lowland pasture mixture. Mr. Van Dyke had seeded ten acres without a nurse crop. When we visited the field about two months after seeding, the grass was about eight inches high. A beautiful stand, and every indication pointed to a very successful pasture.

Mr. Van Dyke recently constructed a shed with a concrete floor for the purpose of conserving his farm manures. This shed was very interesting. We hope that in the future many more farmers will build similar sheds for the conserving of their farm manures.

About forty people spent the day on this tour. Several representatives of the Lynden Business Men's Organization were interested visitors. We expect continued interest and cooperation from this organization.

#### FEEDING WORK

The proper and economical feeding of dairy cattle is a subject that all dairymen are interested in. It has been the writer's policy to always check over the grain feeding with all new members of the Dairy Herd Improvement Association. In many instances certain changes were made in the rations which in the course of the year's feeding made a saving greater than the cost of the testing dues.

We always try to use home grown feeds to the best advantage and to watch the markets in order to buy in an economical manner.

During the last two or three years we have come to appreciate the excellent dairy feed which we have here in the dried beet pulp. Many dairymen grow sugar beets and are entitled to purchase certain quantities of dried pulp at a very low price. We have found that this pulp can be fed dry as a principal grain if sufficient oil meal is added to supply the necessary protein content. We have mixed dried beet pulp and cottonseed meal at the rate of 300 pounds of the former with 100 pounds of the latter and have secured very satisfactory results both as a winter grain and as a supplement to spring pasture. The cottonseed meal offsets the laxativeness of the dried pulp. We have fed as high as 15 pounds of this mixture per day to high producing cows using no other grain.

We have suggested that dairymen plan for a supply of winter succulence of some sort. There is an increase in the use of silos and silage—a number of idle silos have been sold and rebuilt and several new ones have been erected.

Some of the dairymen who formerly raised mangels and carrots for winter succulence are now using sugar beet tops. These are very good when fed in moderate quantities.

More than two hundred different dairymen have been given assistance at different times during the past year in their feeding problems.

#### PROJECT: FARM AND HERD MANAGEMENT

Problems of farm and herd management have been discussed with more than two hundred farmers during the past year. Several dairymen have reduced their herds some in order to avoid purchasing larger quantities of feeds. In some instances, this reduction has been made through taking the bang's test and others have culled their herds on the basis of their production records. We have advised fitting the size of the herd to the supply of home grown feeds—particularly in relation to roughages. With good producing dairy cows one can buy the necessary concentrates but the dairyman must have a special market for his product if he is to buy much of his roughage.

### CULLING

The intelligent culling of dairy cows is absolutely necessary if a dairyman is to stay in the dairy business over a period of years.

Very few men can cull their herds successfully without the use of production records on the individual cow. During 1936 one hundred and twenty-five cows were culled—about one fifth of these were bang's reactors while the balance were low producers.

The following table shows the progress which has been made in our campaign to eliminate the boarder cow:

<u>YEAR</u>	<u>COWS IN D.H.I.A.</u>	<u>COWS SOLD FOR BEEF</u>	<u>PERCENTAGE SOLD</u>
1923	1478	80	5.4%
1924	1730	154	7.7%
1925	1487	160	8.7%
1926	1881	158	8.3%
1927	2087	153	7.3%
1928	2227	129	5.7%
1929	2227	98	4.4%
1930	2597	142	5.3%
1931	1812	116	6.4%
1932	1184	55	4.6%
1933	867	87	8.9%
1934	839	77	9.1%
1935	1123	86	7.6%
1936	1373	125	8.1%

This table shows fairly uniform culling through the fourteen year period. Beef prices, butter prices and feeds available, have all influenced the culling from year to year.

### DISEASE CONTROL

The general health of the cattle of Whatcom County has been excellent. The county has been an accredited tuberculosis free area for a number of years.

Dairymen have been availin themselves of the service of the Federal Bang's test since August 1934. The work has gone forward in a very satisfactory manner under the able direction of Dr. Carl Cozier.

The Extension Service has given their full cooperation in this work—through education and assistance in signing the Bang's Test Applications. Dr. C. E. Sawyer, from the Western Washington Experiment Station has assisted in the educational work relating to the bang's test.



### DAIRY SIRES

Assistance was rendered in the placing of several good dairy sires during the year. A guernsey sire with producing daughters was located for County Agent Leland for use in a bull club in Clallam County. Mr. A. Blankers was assisted in the selection of two registered bull calves, two registered cows, and grade cows.

Mr. J. J. Eason was assisted in the sale of a young sire as was W. R. Hill and Clayton Milhollin.

During 1936 we proved four dairy sires. The detailed records of these are on pages 4-5-6-7 of the Thirteenth Annual Report of the Whatcom County Herd Improvement Association which is attached to this narrative report. These proved sires is still in active service and is to be purchased by O. Irwin this winter from J. A. Porter and son.

### DAIRY SCHOOLS

Two one day dairy schools were conducted, one at Everson and one at Bellingham in November, 1935.

These schools were arranged for by the County Extension Service, and most of the program material presented by Dr. Hill of the State Extension Service and Mr. Sawyer of the Western Washington Experiment Station. These schools had a total attendance of thirty-five. The Sugar Beet Harvest was in progress at this time and kept many interested dairymen away.

### PUREBRED BREEDER'S ACTIVITIES

The writer assisted the Whatcom County Jersey Breeders with three meetings, a regular business meeting which included election of officers, a meeting addressed by Mr. Brew and T. R. Warren, and a picnic and tour. The Hoksbergen herd was visited by Professor D.L. Fourn as a part of this program.

Assistance was given the Holstein Breeders in arranging for a tour and business meeting at which new officers were elected for the year.

Two guernsey tours were attended. Assistance was given in the judging at the British Columbia Tour.

Two meetings of the Pure Bred Breeders were called. One for the discussion of problems dealing with the reselling of dairy bulls by butchers and dealers. At the other, suggestions were offered relative to regulations governing cattle shown at the county fair.

### PROJECT: FAIRS

The writer served as Cattle Superintendent at the Whatcom County Fair. Premium lists were revised and arrangements made for bang's testing all cattle to be exhibited at the Fair. Cooperation of the local veterinarians was secured and testing was done without expense to the breeders.

The purebred breeders were contacted and urged to show their cattle as a part in a local enterprise. We had more than 80 head of splendid purebred cattle exhibited.

Fifteen 4-H club boys and girls exhibited seventeen head of fine animals. Many of the older club members were working away from home this summer and were unable to prepare their cattle for the fair. Then too school had just opened and this made a hardship on the club members.

PROJECT: CLUB WORK

The writer served as leader for the Lynden Dairy Club. Monthly meetings were held through the fall, winter, and spring at which various dairy problems were discussed. A program was held in the winter for the purpose of raising funds with which to send a delegate to the State Club Camp at Pullman. Assistance was given to the Liberty Calf Club and to all of the calf club members who exhibited at the County Fair.

NARRATIVE REPORT OF

HOME DEMONSTRATION AND FOUR-H HOME ECONOMICS PROJECTS.

in

WHATCOM COUNTY, WASH.

OCTOBER 1, 1935 to SEPTEMBER 30, 1936.

MISS INEZ ARNQUIST  
HOME DEMONSTRATION AGENT.

## TABLE OF CONTENTS

	<u>Pages</u>
Introduction-----	1-5
Organization	
Work of Home Agents at Large	
 Projects:	
Clothing-----	6-8
Foods and Nutrition-----	9-11
Home Management-----	12-14
House Furnishings-----	15-16
Miscellaneous H. D.-----	17-18
Recommendations for next year H.D.-----	19
 4-H Home Economic Projects-----	20-27
 Four-H Miscellaneous-----	28-30
 Recommendations for next year 4-H-----	31
 4-H Home Economics Completion List-----	32-33

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NARRATIVE REPORT OF HOME DEMONSTRATION AND  
4-H CLUB HOME PROJECTS IN WHATCOM COUNTY, WASH.  
1935-1936

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INEZ ARNQUIST, HOME DEMONSTRATION AGENT

INTRODUCTION

Whatcom County, in the extreme northwestern part of Washington, is a county of home owned property. Eighty-three percent of the 4662 farms are home owned, which is an increase of 385 since 1930 according to census data. About 60% of the residences in Bellingham are home owned. The average size of farm is 42 acres, with a range of from three to two hundred acres. A large number are small tracts, with poultry and poultry products the main source of income. Besides this, there is a large number of tracts smaller than the census figures—the homes of people who are employed in Bellingham but who have some income from products produced on their land. The population of Whatcom County outside of the city of Bellingham was 28,293 in 1930. This number includes people living in the towns of Custer, Lynden, Ferndale, Blaine, Everson, Nooksack, Custer and Sumas.

The leading farm products are poultry, dairy, sugar beets, fruit, vegetables, cereal and forage crops, livestock and bulbs. Dairy and poultry are the main farm industries. The latest information shows Whatcom County to be first in the United States in the production of poultry and eggs. It is third in the state in the production of dairy products. Eighty percent of the farmers market their poultry and dairy products through their cooperative organizations. Vegetables and small fruits are other important sources of income, and as Whatcom County has two canneries, farm people have a ready sale for their produce, and women and girls add to the family and personal income during the summer and fall by picking berries, peas, and beans, and by working in the canneries.

Most of the farm people are interested in all progressive movements and understand the value of working together.

ORGANIZATION

Extension work for the home is carried on through Home Demonstration Clubs for women, and 4-H clubs for girls. Cooperation is given to other organizations such as the P.T.A., but no organized program is carried on.

The Federation of Whatcom County Home Demonstration Clubs includes most of the organized Home Demonstration Clubs, although not all federate.

NEW HOME DEMONSTRATION CLUBS

Two new clubs have been organized in the Sumas district, one at Sumas, the other at Liberty. As they were organized in the spring, as yet they are not well underway. It is hoped these clubs will be strengthened next year.

The younger women at Laurel have completed their organization and will be an active functioning club next year. A group of younger women have organized at Blaine through the sponsorship of the Blaine Home Demonstration Club. This is a small club which has been very active this year.

These two groups of younger women and the Young Homemakers and Young Mothers Clubs of Bellingham are interested in the general program and in discussions and demonstrations that will clarify the application of principle of psychology in their work with their children. In the Laurel group are normal and college graduates who have taught school and one member with nurse's training.

The specialists have been brought in touch with the Laurel group by visits to their evening club meetings. An older woman who is a student of child psychology and especially interested in child development, is acting as sponsor and helping them at meetings. This club has been under very close observation, and if what is being done definitely meets the needs of the members, the organization of other interested groups is expected.

The Altruistic and Cornwall Clubs in the city of Bellingham have ceased to function as Home Demonstration Clubs. The former is a group of fairly well to do women who are socially minded and are having programs of book reviews and reports on current events. The Cornwall Club has never been active nor turned in anything but very meagre reports, during the past seven years.

#### USE OF THE LADDER FOR REPORTING

Twenty-two clubs turned in the ladders before report time. Of this number seven had set goals of the number they expected to reach. The others had not set goals, but reported 573 members and others adopting practices.

#### FEDERATION MEETINGS

Four county-wide meetings are held each year in different parts of the county. A speaker on some subject closely effecting homemaking problems is usually secured. A five minute talk by a representative of some county wide organization working for public welfare at meetings is further acquainting the county with the work of these public agencies.

The following shows the subjects dealt with at the meetings this year.

<u>TIME</u>	<u>SUBJECT</u>	<u>SPEAKER</u>	<u>ATTENDANCE</u>
Oct. '35	The Extension Program	H. B. Carroll, Ass't Director of Extension.	175
	The work of the County Antituberculosis League	Margaret Diaz, T.B. Nurse.	
Jan. '36	How to Prevent the Spread of Contagious Diseases	Dr. Morin, Bellingham.	225
April '36	Washington Birds and their Economic Importance	J. M. Edson, Bellingham.	180
	The SCDA Program	F. W. Frasier.	
July '36	Four-H Demonstrations "Safety on the Highways"	Wm. Frye	138

## PRESIDENTS MEETINGS

At the meetings held in December, March, June, and September, talks on parliamentary and procedure, keeping of records have been given, and problems and policies discussed. This is a key group whose meetings help to keep unity in home extension work.

## EXECUTIVE BOARD

This group meets four times a year to plan Federation meetings including the programs and to make recommendations to the presidents group and general Federation meetings.

## FORMULATING THE PROGRAM FOR 1935-1936

The club presidents and one other member from each club were notified of the program planning meeting in December, 1935. One difficulty in planning a program as has been done of recent years is that too large and unwieldy a program results.

## YOUNGER WOMEN'S H. D. CLUBS

At present there are four groups composed only of young women, the Laurel Junior., the Blaine Junior, the Young Mothers and Young Homemakers Home Demonstration Clubs of Bellingham. Next year these clubs will follow the regular program in Home Management, and the work on applying art principles and supplement with child development study. Other clubs may organize next year.

## USE OF THE LADDER CHART

The California "Ladder Chart" was used this year, and while explanations were given at every opportunity, only about half were returned filled out as directed. There was, however, much valuable information to be obtained from them, and the Executive Board strongly recommended their use again this year, saying that it takes a full year to get any change or addition in recording to be generally adopted in an organization as large as this.

## STANDARD AND GOLD STAR CLUBS

Exhibit F shows recommendations made by a committee for rating Home Demonstration Clubs. This was done to encourage clubs to participate more effectively in their Home Demonstration activities. The total rating has not been made but six clubs were gold star clubs. The Agent believed the standards were set too high this year.

Suggestions to Home Demonstration Clubs on ways of sponsoring 4-H club work has helped in developing new 4-H communities this year, and others are preparing to start clubs next year.



## WORK OF THE HOME AGENTS AT LARGE

Four Home Agents at Large have assisted in the Extension Program in home projects this year: Katherine Miller, from October 5th to November 30th; Agnes Avent, from December 10th to 31st; Helen Steiner, from April 15th to May 31st; and Ruth Eyres from March 9th to April 10th.

Each Agent made a valuable contribution to the County Extension Service program.

Miss Miller's training in Child Development and Nutrition made her well qualified to give needed help in child development. She organized the Child Development files and nutrition files up to date. Both Miss Miller and the County Home Demonstration Agent visited the Blaine Junior and Laurel Junior groups twice on children's clothing and foods for children, and later Miss Miller worked on plans for carrying on further work with these younger groups. Later she presented the clothing project to two of the younger groups in Bellingham.

Miss Avent's special interest in the art side of Home Economics made it possible for her to help with plans for teaching art principles to be applied in making and purchasing house furnishings and clothing. The clothing and house furnishings files were also brought up to date.

Miss Steiner assisted in leader training meetings on breadmaking at the Acme and Nooksack and Bellingham districts and a home management leaders' meeting at the Custer center. She took charge of the nutrition department of the Pre-school round-up of the Bellingham Parent Teacher's Association, consulting with parents and giving out nutritional literature as needed. Home Demonstration and 4-H clubs were visited with subject matter and helped in organizing.

A kit of patching and mending samples was prepared for use with 4-H club leaders and members and home made kitchen conveniences were prepared for use in the Home Management project with Home Demonstration Clubs.

Two demonstrations were written for 4-H foods club members which were later given at a county wide leaders' Council meeting.

Miss Ruth Eyres prepared a kit of illustrative material, for use with 4-H clothing leaders, consisting of flour sack underwear, and a print dress showing various ways in which accent or emphasis could be attained. Aprons appropriate for young girls and holders were also included in this kit which was used at clothing leaders' meetings and the individual 4-H clubs visited.

An excellent piece of work was done in helping 4-H club committees with planning their programs of work for the year. Secretary's books turned in at the end of the year showed <sup>24</sup>clubs had their programs wholly or in part at the beginning of the year, and 185 members participating in at least one demonstration.

All of the Home Agents at Large met with Home Demonstration and 4-H clubs as needed, and while the goal set by the Home Demonstration Agent of visiting each club once during the year was not reached, 43 of the 57 Home Demonstration Clubs and 34 of the 42 Four-H Clubs were visited at least once during the year, and helped with organization, records and subject matter.



Home Demonstration work has benefitted by the help given by the Home Agents at Large far more than reports might indicate. With all files up to date, much time will be saved during the coming year and people will be served more easily and effectively. Kits will be used for several years.

Four-H Secretary's books and individual records have been improved a great deal, and this can be improved next year.

The improvement in 4-H club work has been very encouraging. More emphasis needs to be laid on the Home Demonstration keeping of records also, which will be done next year, as far as possible. The problem of keeping nearly a hundred clubs functioning effectively is a difficult one for one agent.

## CLOTHING PROJECT

### WORKED PLANNED AND GOALS

1. Hold leader training meeting in four centers on cleaning and adjusting sewing machines. Hold follow-up meetings as needed.  
Goal--100 to adopt cleaning practices.  
500 to adopt adjusting "
2. Hold leader training meetings on selection and care of shoes, and care of the feet.
3. Leaders' meeting to be held on making knitted, crocheted, fagotted and block printed accessories, and use of woolen pressing cloth.
4. Help individual clubs as needed with demonstration of self-help clothing.  
Goal--50 to adopt practices.
5. Leaders' meeting on foundation patterns. Goal--20 to adopt practices.
6. Enroll young people in 4-H clothing clubs.  
Goal--150 members completing.

### WORK DONE AND RESULTS

1. Leaders' meetings held in four centers, with a total attendance of 65 representing 29 H. D. Clubs and 6 4-H clubs. 32 clubs reported 31 demonstrations by leaders. Att. 438.  
212 machines cleaned.  
181 machines adjusted.
2. Two leaders meetings held with 35 in attendance representing 28 H. D. clubs and 4, 4-H clubs.  
23 demonstrations reported with 340 in attendance.  
162 adopted practices in shoe selection.  
128 " " " care of feet.  
195 " " " shoe care.
3. Leaders' meeting held. Att. 38.  
20 leaders held meetings. att. 259.  
59 women made 84 knitted accessories.  
172 " " 348 crocheted "  
74 " " 85 fagotted "  
57 " " 124 block printed articles.  
641 articles.  
No report on pressing cloth as no blank had been provided.
4. Demonstrated in four clubs. Sent literature to 4 clubs.  
103 families adopted practices, in making infants clothing.  
88 families adopted practices in making pre-school clothes.  
107 families adopted practices in making school clothes.
5. Postponed.
6. 205 enrolled.  
157 completed.

#### SUB-PROJECT A.

#### CLEANING AND ADJUSTING SEWING MACHINES

The Specialist met with leaders in the Custer district, after which the Agent met with leaders in the Deming, Lynden and Bellingham centers, reaching in all 19 clubs. On request, the Agent demonstrated to Victor, Van Wyck, Wecoma, Acme, Van Zandt and Sumas Clubs. At Van Zandt, leaders from three other clubs that had misseed the demonstration attended. The demonstration was given as a start in work for the new Sumas club. In all, the office records show demonstrations given later in 29 Home Demonstration Clubs and six 4-H Clubs. This sub-project will be continued next year in other clubs and each club will be asked to keep a record of additional members adopting the practices advocated. A special meeting will be given next year for 4-H leaders and other Home Demonstration Clubs.

#### SUB-PROJECT B.

#### SHOES--SELECTION AND CARE--CARE OF FEET.

The Specialist met with leaders in the Lynden and Bellingham centers and the Home Agent at Deming and Van Zandt centers reaching 57 from 27 H. D. Clubs and 11 from 6 4-H clubs. The instructions were given on exercises to strengthen foot muscles and was of special interest.

The number who commented later on this work spoke appreciatively of the improvement in foot health after the exercises had been practiced for two weeks. This sub-project will be continued next year in other clubs. The Home Agent gave this instruction later at the Lawrence H. D. Club and Miss Steiner at the Van Wyck Club. Further instructions have been requested on shoe selection.

#### CLOTHING ACCESSORIES

Clothing leaders assisted at a meeting of all leaders at a Christmas meeting in early December. The county clothing leader and an assistant taught fagotting at one table, the Federation President taught knitting a childsgarment at another, and two other leaders taught knitting scarfs. Leaders could progress to other tables.

The Home Agent displayed block printed silk scarfs and gave out patterns to those who had previously done block printing. A demonstration on using a wool pressing cloth for pressing wool and silk garments was also demonstrated. This meeting served as a help in planning Christmas gifts, as well as articles for family use later. The reports from 32 clubs shows that much use was made of help given that day.

#### SELF HELP CHILDREN'S CLOTHING

The State kit of children's clothing was demonstrated at the Laurel Junior, and Young Mothers, Blaine, Jr., and Young Homemaker's Clubs of Bellingham and bulletins were sent to five other interested clubs. These clubs are composed of younger women who are especially interested in and applying principles of psychology to child development. Some of the Laurel Junior Club members are trying to work out original patterns to carry out the ideas advocated.

## FOUNDATION PATTERNS

This project was postponed, as a "Northeaster" in January delayed the program. However, some leaders who had had the work ten or more years ago assisted 27 friends this year in making foundation patterns. It is interesting to note that although women were helped to make foundation patterns in their Extension program, more than seven years ago when the agent came to the county, 77 women reported they were still using them

4-H clothing club work--See 4-H report.



## FOODS AND NUTRITION

### Work Planned and Goals

### Work done and Results (Reports of 30 clubs)

#### SUB-PROJECT A. Bread and Rolls.

Hold leaders meetings in 4 districts.

Goal--500 to improve making of bread and rolls.

Leaders meetings held. Att. 43, representing 23 H. D. clubs and four 4-H clubs.

Leaders reported 22 meetings--att. 357.  
202 reported improving bread.  
224 reported making a variety of rolls.

#### SUB-PROJECT B. Wholesome Sweets.

Hold leaders' meeting on wholesome sweets.

Goal 100 to adopt practices.

Meeting held--attendance 35.

22 demonstrations reported. att. 340.  
186 practices adopted.

#### SUB-PROJECT C. Child feeding.

Leaders' meeting on child feeding in two centers.

Meetings held in one center. Att. 18.  
Leaders gave 5 demonstrations. att. 80.  
Reports show 13 families adopted practices.

#### SUB-PROJECT D. Follow up work on:

Planning meals, using "plate menus".  
Leaders meetings in two centers.

One held. Att. 15.  
Nine demonstrations given by leaders.  
Att. 124.  
90 improved meal planning.  
107 used "plate menus"

Stimulate interest in growing cooking herbs for variety in cooking. Send mimeograph material to those interested.

Goal 20 to grow a variety of herbs.  
Visit cooperators.

Material sent.  
118 reported growing herbs.  
Not yet visited.

Hold county wide food preservation institute.

Postponed.

Interest women in keeping record of extent of spoilage of home canned foods.

6 kept.

Enroll 100 girls in 4-H clothing club work.

112 enrolled.  
70 completing.

## BREADMAKING

The following meetings were held:

<u>Center</u>	<u>Attendance</u>	<u>Instructions by</u>	<u>No. H. D. clubs Reached.</u>	<u>4-H</u>
Lynden	15	Spec. and Agent	7	
Bellingham	6	"	4	1
Nooksack	25	H.D. Agent & Asst.	5	
Acme	25	" " " "	5	1
Bellingham	6	" " " "	2	2
(4-H leaders)				
5 meetings.	77		23	4

Of most general interest in the county was the making of the twelve varieties of plain and fancy rolls, made from the Dixie biscuit dough, which were demonstrated. Interest is spreading to other clubs, and the foods and nutrition leader will meet with other groups this next year. The County nutrition leader chosen for next year, who served as head cook at Farm Women's Vacation Camp in August served excellent hot breads at three of the nine meals served.

Breadmaking instructions and demonstrations were given five years ago in seven centers with the help of a discreet commercial demonstrator. A number of the clubs were interested in more work on breads this year. Instead of holding demonstrations, it was decided that several leaders' meetings would be held so the groups would be small enough so each one could make a loaf of bread. It was planned to demonstrate making a variety of rolls from a standard recipe while the bread was rising. Any interested person was welcome to attend these meetings to observe. Leaders worked at tables facing the audience under the supervision of the specialist and home agent. Each leader was given her choice of making white, wholewheat or rye bread. Breads displayed at the county fair in the Home Demonstration booth were of outstanding good quality, and aroused considerable comment. Each club entering displayed one loaf each of the three kinds, two kinds of plain rolls, and a plate of three fancy rolls. The instructions on making rolls was very generally appreciated, and many expressed the opinion that fancy rolls would to quite an extent displace cake in home meals.

There is a great deal of pride shown by many of the leaders in their "handiwork". A fuller report will be available next year, as work will be done by the county leader in other clubs next year.

## WHOLESOME SWEETS

Early in December of last year at a Christmas Day meeting of leaders in all projects, boxes of candied local fruit, fruit paste confections, dried and glace fruits were exhibited, and uncooked fondant candies demonstrated. All clubs did not hold meetings before Christmas, but will demonstrate this fall. Consequently, part of the results of this meeting will be reported next year.

## CHILD NUTRITION

A "Northeaster" made it impossible to take the specialist to the meeting scheduled at Lynden, as pavements were icy and the snow drifted in quickly behind the snow plows. This storm delayed the clubs schedules considerable, and made it impossible to carry through all that had been planned.

In the Bellingham meeting in the forenoon, the Specialist discussed the feeding of pre-school children. The very meagre results given in the foregoing table are not easily explainable unless the five clubs represented were largely women who had no small children.

#### PRESCHOOL CLINICS

The Home Demonstration Agent and Home Agent at Large alternated time at the clinic conducted three forenoons by the Bellingham Parent Teacher's Association. After the examinations were completed mothers came to the Home Demonstration Agent for bulletins and circulars, and could talk over nutritional matters.

#### MEAL PLANNING

In the afternoon of the day begun with the work on child nutrition, the specialist discussed meal planning, building her discussion about "plate menus" as requested. This was to be luncheons and dinners that could be served on individual plates from the kitchen. Although the attendance was small because of the weather the number adopting practices showed a good piece of work had been done by leaders in nine groups.

#### HERB GROWING

Interest in growing herbs has been increasing since Miss Birdseye, of the National Office met with leaders here last year. The report shows that 118 women raised 193 herbs this summer, but particular herbs raised were not listed. Mrs. Sornberger of Lynden raised seven varieties. The Agent plans to call on her soon to find out more about her project. There may be need of help with herb cookery next year.

#### HOME CANNED FOOD SPOILAGE

A form was made out last year for those who wished to keep track of canned food spoilage. This blank is exhibit B. Only 6 of these were returned at the end of the year showing that out of 990 quarts canned, 20 had spoiled as follows:

- 3 cans beets.
- 2 cans string beans.
- 5 cans corn
- 3 cans peas
- 2 cans beef
- 1 can apples

Several clubs are asking for the blank this year and it is hoped the information will be extensive enough to provide a guide to the need for work in this sub-project.

#### COUNTY-WIDE FOOD PRESERVATION INSTITUTE

Postponed.

## HOME MANAGEMENT PROJECT

Enroll 500 women.

### Work to be Done

1. Unit I. Time Management.  
Leaders' meetings in four districts, specialist at two. Meet with individual clubs as needed.
2. Unit II. Housecleaning Methods  
Leaders' meetings in four districts. Help individual clubs.
3. Unit III. Energy Management  
Leaders' meetings in four districts. Help individual clubs.
4. Unit IV. More leisure hours  
Leaders' meeting in four districts.
5. Develop interest in household accounts.  
Explain book at H. M. leaders' meeting.  
Household account school.
6. Leaders' meeting on care of silver, pewter and brass.
7. Enroll one group of girls in 4-H Home Efficiency Project.

### Results

Four meetings held, att. 42 from ~~38~~ clubs. 4 clubs assisted. 226 reported adopting some practice.

Four meetings held, att. 45 from 22 clubs. 3 clubs assisted. 226 adopting some practice.

Four meetings held, att. 30 from ~~24~~ clubs. 226 adopted some practice.

Postponed.

Book explained—attendance 38.

School held—attendance 5.  
38 rural women started accounts.  
11 urban women started accounts.

Leaders' meeting held—attendance 38.  
55 reported adopting practice.

~~7~~ girls enrolled.  
4 girls completed.



The year's work included discussions and demonstrations on four subjects: Time Management, Energy Management, Housecleaning methods and leisure time activities. Each subject was to be presented at leaders' meetings in four districts of the county, as the specialist wished to work in small groups to promote free discussion. The first phase was given in March, the second in May, the third in June. The fourth phase was planned for August but later postponed to meet changes in State Office schedules.

~~The~~ the opinion of the Agent, the Home Management work was given too late in the club year to be as far reaching as desired. In a poultry county, care of baby chicks, is of first importance to the farm family, as absence from home means financial loss. During the spring season, with additional gardening and other outdoor work, improvements are likely to be postponed until the fall. This year it is planned to have the first work in November.

There is no record of the meetings held by leaders, as no blank space was provided in the report blank. An estimate made is given in the statistical report.

The following summary of the reports sent in by 226 women in 21 clubs will doubtless be increased by practices adopted this fall:

UNIT I.	No. Women adopting some Practice.	Total.
Adopted new goals for homemaking	127	134
Managed Interruptions	69	77
Tasks being done by children without being told.	147	176
Reduced motions in Household tasks	182	183
Reduced time in Household Tasks	88	93
Made knife rack	22	22
Made platform for heavy containers	19	22
Put partitions in kitchen drawers	64	70
"Clean up" one job before starting another.	117	123
Save minutes daily by making a plan of work.	98	127
Save hours weekly by making a plan of work.	74	74
Acquired daily rest period	82	89

#### UNIT II

Saved hours by making a plan for Home cleaning.	54	54
Made a cleaning closet	8	9
Made a cleaning basket	27	28
Treated dust cloths and floor mop	78	78
Walls and woodwork cleaned as suggested	46	47
Kitchen floors waxed	80	81
Chamois for cleaning mirrors and windows	41	41
Cleaned rug and upholstery as suggested	44	44
Cleaned metals as suggested	53	53
Cleaned curtains as suggested	18	20
Obtained labor-saving cleaning equipment	24	26
Place for boots and shoes provided	11	11
Divisions placed in drawers	1	1
Divisions placed in sewing machine	2	2

UNIT III	No. women adopting some practice	Total
Improved health	37	37
Learned to conserve energy	44	44
Regulated ventilation and temperature	60	80
Proper elimination	49	49
Improved posture	54	54
Eat proper foods regularly	100	100
Planned so as to have less overwork	43	44
Better table heights	18	18
Less clutter	51	51
Less worry	43	43
Standardized household tasks	29	29

#### HOME ACCOUNTS

Very little time was spent on this sub-project this year. There is each year an interest in methods of keeping accounts, and an explanation of the book put out by the Extension Service in December, and the meeting for cooperators later, resulted in 49 women starting accounts. In January there will be more information as to the number successfully completing.

#### CARE OF METALS

At a county-wide meeting of leaders in all projects, leaders were shown how to make a paste polish for silver, pewter and brass. There has been considerable enthusiasm over this polish. It was a surprise to see that so few had adopted the practice at the end of the year, but leaders say that next year will bring the big results, as women are now using up polish they have on hand.

#### KITCHENS

Help has been given in plans for improving a kitchen, this year.

## HOUSE FURNISHINGS PROJECT

### WORK PLANNED AND GOALS

#### SUB-PROJECT A.

Demonstrate making and use of a linen roll at a leaders' meeting.

#### SUB-PROJECT B.

Follow up meetings for leaders on book binding and block printing.  
Goal-50 to adopt practices.

#### SUB-PROJECT C.

Follow up last year's demonstration on candle wick bedspreads, by an exhibit at a federation meeting. Send information on bedspreads and couch covers to leaders.  
Goal-100 to adopt practices.

#### SUB-PROJECT D.

Leaders' meeting on caning and upholstering.

#### SUB-PROJECT E.

Furnishing a child's room.

Enroll 50 girls in 4-H Room Improvement clubs.

### WORK DONE AND RESULTS

#### SUB-PROJECT A.

Demonstration given. Attendance 57.  
No reports received.

#### SUB-PROJECT B.

Two meetings held, att. 50. Leaders held 10 demonstrations, att. 160. 27 reported 49 books rebound. Five demonstrations given on block printing. Att. 46.  
43 women reported 75 pieces made.

#### SUB-PROJECT C.

Ten demonstrations given by leaders.  
18 women reported 21 bedspreads made.

#### SUB-PROJECT D.

Postponed.

#### SUB-PROJECT E

Postponed.

33 enrolled.  
28 completed.

### LINEN ROLLS

A roll for table linen made of a large mailing tube was shown at a Christmas meeting for all leaders in early December. In making up the report sheet, no space for checking this item was provided. As a result no reports were received.

### BOOK BINDING AND BLOCK PRINTING

Two follow-up meetings on work given in previous years were held for a group of clubs specially interested in further help. It is interesting to note the continued interest in the use of block printing in decorating articles of house furnishing, and the difficult problems of book binding undertaken.

### BEDSPREADS

In August, 1935, at the County Vacation Camp, a demonstration on making candlewick bedspreads was given. As there was considerable interest shown this year, several that had been made by leaders were exhibited at the January Federation Meeting. A circular was prepared on planning and making bedspreads and covers for daybeds and couches, which was sent to all clubs. The full report will probably be spread over a period of two or three years.

### RECARPETING AND UPHOLSTERING

The Specialist has taught the Home Agent and Agent at Large the methods to follow in this project which is to be carried out next year.

FOUR-H Club Projects—See 4-H report.

### FOLLOW UP OF RESULTS OF LAST TWO YEARS WORK

66 hooked rugs made.  
58 braided rugs made.  
38 crocheted "art" rugs.



## MISCELLANEOUS--HOME DEMONSTRATION

### FAIRS:

#### NORTHWEST WASHINGTON FAIR AT LYNDEN

Exhibit C gives the premium list for Home Demonstration exhibits, at the Whatcom County Fair. While the Committee were somewhat disappointed that only 13 clubs entered this year. The quality of the exhibits far exceeded that of any previous year. Exhibits in breads, canned goods and candlewick bedspreads were outstanding.

### VACATION CAMP:

This year's camp was held at the Nooksack-Sumas High School, which had just been remodelled and refinished inside. Local clubs, Clearbrook, Sumas, Liberty and Nooksack kept the rooms beautifully decorated with flowers, and Clearbrook prepared a flower show in the gymnasium.

In all 156 were enrolled for full time, and about 250 Others attended during camp.

One of the achievements this year was in financing the camp. Formerly a ten cent assessment on all club members in the county had been made to supplement the fee of \$3.00 per member enrolled for full time. Last year with 28 enrolled, there was a little surplus. This year the assessments were cut to 5¢ per member and with the large enrollment, there was a surplus equal to the amount brought in by the assessment. It has been proved that with combined large enrollment the camp can be run on the fees, with no assessments. The department made a demonstration of excellent meals, attractively served at a minimum charge. Hot breads taught this year to leaders were served three times, a real accomplishment with the equipment and help available.

Exhibit A shows the program carried out at camp.

The "Afternoon in Holland" was in charge of the Lynden Club which arranged for an exhibit of articles treasured by Holland people near Lynden, a talk on Holland customs, Holland songs, and the serving of refreshments customary in Holland by women and girls in Holland costumes.

Four years ago, "A Swedish Afternoon" was planned with the women of Lawrence in charge. As there is a large group of Icelandic people in the north of the county, it has been suggested they prepare an afternoon next year.

It is the opinion of the Agent the exhibits and the programs are helping to bring about a realization and something of an appreciation of the contribution different countries have made to the art of living.

Realizing the need of guidance through the help of a knowledge of a few art principles both for clothing and house furnishing plans, the Home Demonstration Agent gave three periods devoted to this subject, stressing structural design, simplicity placing of ornamentation, flower arrangement and picture selection. Book-ends were demonstrated and designs worked out for bags and scarfs. Some information was given on looms and weaving and articles were displayed to illustrate points.

The interest shown in this project has led to requests for more of this in next year's program.

#### ACHIEVEMENT DAYS:

Achievement Days have been held by several Home Demonstration Clubs this year. Exhibits have been made and reports given by project leaders and others of the clubs achievements. Other clubs are sometimes invited in, and are stimulated in their work the following year.

#### COMMUNITY ACTIVITIES:

The Home Demonstration Agent attended meetings as follows: W.P.A. Recreation project, luncheon for child welfare workers, county-wide farmers-businessmen's dinner, county fair committee, county planning meeting at Custer, Red Cross Accident Prevention. She served on the dinner committee for the Farmers Dinner which was attended by over 400. A talk on Home Demonstration work was given at a meeting of the local unit of the State Welfare Department.

#### HARVEST FESTIVAL:

Cooperation was given the Chamber of Commerce again this year in preparing for the Harvest Festival. The Home Demonstration Agents made out the premium lists, arranged for entries and exhibiting, and provided judges. Exhibit E shows the premium list. In extent of individual entries and quality, this compares favorably with the larger fairs. The canned goods and rugs were the outstanding exhibits.

#### ANNUAL CONFERENCE AND SCHOOL OF PHILOSOPHY

The Annual Conference and School of Philosophy has been a source of inspiration all year, as well as a background of thinking and understanding. The Home Agent is most appreciative of the opportunity offered.

#### NATIONAL HOME ECONOMICS AND PRECONFERENCE MEETINGS

The Home Demonstration Agent attended both meetings, serving on committees.

RECOMMENDATIONS FOR NEXT YEAR  
HOME DEMONSTRATION

1. FORMULATING PROGRAM

The program in Whatcom County should be formulated early, in early September, if possible, and a suggested program might be worked out to present to clubs for their approval and additions. This was done this year and an early start was made for 1937. The Assistant Director of Extension in Home Economics was present and gave valuable council.

2. LADDER CHARTS

Continue the use of the ladder charts next year. The Federation should finance this if possible. Send written directions on keeping the chart, also suggestions to secretaries.

3. Continue with Home Management as the major project--commencing as early in the year as possible for maximum results.
4. Hold the interest of the entire membership through teaching how to apply fundamental art principles to everything planning, especially the principles of proportion, simplicity, placing of decoration, and appropriateness. Teach a variety of applications of the above. It may be necessary to hold open district meetings to carry this out effectively.
5. More effective work with home accounts is needed--more time especially should be reserved for this fundamental subproject.
6. Younger women's groups should also follow the major project closely, supplementing with other projects.
7. Send suggestions to Home Demonstration Clubs on ways to help the 4-H club movement in Whatcom County.
8. Make a definite plan for the "Singing" at Federation and at club meetings. The love of singing is evident at Federation meetings and much that is lovely can be developed.
9. Some significant ceremony such as installation, appreciation of past services, etc. of Home Demonstration leaders might be appreciated and serve to keep the aims of Home Demonstration work before the whole group.

#### 4-H HOME ECONOMICS PROJECTS

<u>WORK PLANNED</u>	<u>WORK DONE</u>
1. Increase enrollments in foods clubs.	1. Enrolled 101 in 1936 " 33 in 1935 Percent completing 56.4%
2. Increase enrollments in Room Improvement.	2. Enrolled 33 in 1936. " 18 in 1935 Percent completing 84.8%
3. Increase percent of completions in clothing.	3. Enrolled 203 in 1936 " 215 in 1935 Completed 76.8% in 1936 " 77.% in 1935
4. Encourage planning ahead of year's work.	4. 24 out of 41 clubs planned their programs ahead for the year, or part of the year.
5. Encourage increased demonstrations at club meetings.	5. 190 demonstrations reported in 1936, and 182 in 1935.
6. Develop county demonstration contest.	6. Not satisfactory—three teams entered.
7. Not planned at beginning of year.	7. One Home Management Club organized of 4 members. four members completed. One Handy Homecraft Club for boys of six members. Five completed.
8. Work for 85% completions.	8. Percent completions 74.2%
9. Hold leader training to help with the following subjects: <u>Clothing:</u> a. Planning the dress, providing the accent. b. Methods of buying c. Judging d. Demonstrations Hold Charm School	9. Meeting held—kit made.  Not done. Meeting held. At Leaders' Council. Held. Patching and mending kit made.
10. <u>Room Improvement</u> Planning the year's Program Demonstrations and judging.  Care of the room.	10. Clubs helped individually. Leaders assisted at county wide Leaders' Council meeting. Not held.
11. <u>Foods</u> Breadmaking Canning	11. Meeting held. Not held.



12. Visit each club once assisting with organization and judging.

12. 36 clubs visited.

13. Encourage singing of club songs at meetings.

13. Attempted.

14. Interest Home Demonstration Clubs in sponsoring 4-H clubs.

14. Many communities interested in planning for next year.  
Those sponsoring this year are:  
Kendall.  
Van Wyck  
Rome  
Blaine, Jr.  
Glendale.  
Hopewell.  
West Mt. View.

15. Encourage attendance of leaders at district leaders' meetings.

15. 34 attended at Snohomish.  
2 attended at King County.

16. More home visits to leaders.

16. Much accomplished this way.

17. Emphasize setting goals.

17. 20 clubs set goals.  
Three

18. Help to develop leaders' Council by more helpful programs.

18. Meetings held—attendance 78

## FOUR-H CLUB WORK

### ENROLLMENT AND COMPLETIONS

Definite progress is seen in work with boys and girls in 4-H club work. Enrollments show an increase of 44 members enrolled in home projects over last year. Completions fell from 80.6% to 74.2%, but with 18 more members completing than last year. The decrease in percent of completions is partly due to a ruling not to accept any 4-H records after October 15th. While this shuts out some members who were lagging behind, it is anticipated that next year all clubs will make a special effort to be on time.

### PLANNING THE YEAR'S WORK

Progress has been made in planning ahead for the year. It is found that leaders in general do not realize the importance of planning, and this year with the help of the home agents at large, program committees in clubs have been helped to plan. Twenty-four clubs planned ahead this year, and carried through fairly well. Twenty clubs set goals this year. While there is much room for improvement, the agent is encouraged and is sure next year will show an improvement over this year.

### DEMONSTRATIONS

There were a few more demonstrations reported; 190 this year as against 182 last year. This is still far from the goal of every member giving at least one demonstration during the year.

Only three teams were entered at the demonstration contest at the Lynden Fair. The suggestion has been made that other plans for a contest be made as noise at the fair and lack of equipment make demonstrating difficult.

### HOME ECONOMIC PROJECTS

This year there were 321 girls and 9 boys enrolled in 347 home projects. Clubs have been organized this year at Haynie, Kendall, Ferndale, Geneva, Ten Mile, Birch Bay, Northwood, Glendale, Hopewell, West Mountain View. There have been no girls 4-H clubs in the Ferndale, Geneva, Ten Mile, Northwood, or Glendale Communities for seven years or more. Six of these clubs have done very good work. Haynie, Ferndale and Kendall have not functioned so satisfactorily, but probably can be strengthened next year. Geneva failed outright.

### SPONSORSHIP OF 4-H CLUBS

At North Bellingham and Lawrence the P.T.A. sponsors 4-H club work. At Lawrence the President of the P.T.A. appoints the leaders and assists as needed. At North Bellingham a Club 4-H representative is appointed by the Chairman who secures leaders, keeps in touch with the club activities and the County Extension Office and reports back to the P.T.A. This is working very successfully, with splendid community and home support of the work of the boys and girls.

## HOME DEMONSTRATION FEDERATION SPONSORSHIP OF 4-H CLUBS

For many years, the Federation has supported 4-H club work financially, providing funds by contributing 50¢ out of the \$1.50 fee per club to 4-H club work. This money is used to purchase achievement pins every other year.

This year a Committee appointed by the President of the Home Demonstration Federation set requirements for a standard and gold star Home Demonstration Clubs. See exhibit D. This has resulted in interest being taken in developing 4-H clubs in the Kendall, Van Wycke, Rome, Blaine, Glendale, Hopewell and West Mountain View districts. Each Home Demonstration Club has been advised to appoint one H. D. member to look into the local situation, list boys and girls of club age and report back to the club, after which the club decides if it is advisable to organize this year or to plan ahead to do so. If a club is organized, the Home Demonstration Club is responsible for assisting and encouraging as needed. Several Home Demonstration Clubs have done the preliminary investigating and will start clubs next year.

### 4-H SINGING

The 4-H Club Song Books have been of much help in making 4-H meetings enjoyable, and in developing 4-H club spirit. Each club is provided with a song book for each two members. The leader takes charge of the books and sees they are at at each meeting. Groups of girls at North Bellingham, Lawrence and Greenwood Clubs successfully led community singing at the four achievement meetings this year.

### LEADERS' COUNCIL

The attendance at County Council meetings is improving. Meetings held this year were as follows:

<u>MONTH</u>	<u>PLACE</u>	<u>ATTENDANCE</u>
Oct. '35	Lawrence	12
Feb. '36	Bellingham	10
Apr. '36	Bellingham	35
July '36	Bellingham	35

The Lawrence meeting was an afternoon meeting. Also the Bellingham meeting in February. The April meeting was an all day picnic meeting in Cornwall Park. The July meeting was an all day meeting with lunch served at the Bellingham Hotel. More of leader training was done in the program the last two meetings.

### CLOTHING

Enrollments decreased slightly this year, due to several groups changing to the foods project. This was both anticipated and encouraged. The tendency is for all beginning clubs to enroll in the clothing project, keeping the number in this project high.

With the exception of West Mountain View, Wide Awake and Northwood Clubs, all finished with a high percent. Eleven of the 21 girls in the Northwood Club completed.

Quite uniformly good quality of work is shown at all exhibit meetings. Last year the judges at the County Fair commented on the uniformly good workmanship, but stated that the garments lacked something in their planning, an accent or center of interest. This year there was a decided improvement. The booth with the junior girls' clothing exhibit received many compliments. Considerable help was received from a meeting with Miss Mott of the Penny and McCall Companys.

The summary of the record books of the 157 members completing the year's work is given below:

- 12 suits and coats
- 127 dresses
- 68 aprons
- 58 madeovers
- 52 blouses
- 37 accessories
- 19 skirts
- 303 household articles
- 124 articles mended
- 180 patched
- 98 darned
- 54 dry cleaned
- 11 dyed
- 10 clothing accounts kept.
- 8 clothing accounts kept in the personal accounts project.

#### ROOM IMPROVEMENT

Thirty-three members were enrolled at Baker View, Greenwood, Nooksack, Lawrence and Birch Bay, an increase of 15 members over last year. All completed but 5.

These clubs have been helped by visits to all leaders and at club meetings. No leaders meetings have been held as the clubs are widely scattered.

The Baker View Club held a tour to the homes of its members at the beginning of the year which the Agent attended. The purpose was to plan the improvements made.

A summary of the work done and improvements made by the 28 members completing follows:

- Articles made for rooms—106
- Furniture refinished—24
- Paris curtains made—16
- Floors refinished—11
- Rooms rearranged—9
- Color improved—7
- Walls refinished—7
- Closets improved—6
- Articles purchased—5



## FOODS CLUBS

### MEAL PREPARATION

Nine clubs enrolled in this project, with two new leaders. These clubs were at Geneva, North Bellingham, Lawrence, Haynie, Kendall, Paradise and Ten Mile. Help has been given at club meetings and at home visits to leaders. The Geneva Club failed outright, and it was not reported until the end of the year. Haynie and Kendall need strengthening. The other clubs have done satisfactory work.

### BAKING

Ten out of the twelve members enrolled at North Bellingham completed. This club is a group of older, very capable girls, with some of its members taking normal school work and some in business college.

An excellent demonstration was given by a team from this club at the County Council meeting on gluten in bread, and making muffins.

### CANNING

Nine of the 14 members enrolled completed their project. Help has been given leaders through home visits.

The summary of the work done in the foods clubs is as follows:

Total No. qts. food canned for winter use-----	932½
Total No. jars of jelly and jam made-----	866
Total No. loaves bread made-----	520
Total amount of other baking done-----	780
Total number of different dishes of food prepared	1375

### HANDY HOMECRAFT

A group of six boys were enrolled in this project, with Mrs. Whitley of Rome as leader. This is the first club of its kind in Whatcom County. Five of the boys completed. The leader is not enthusiastic over her work in this project and does not plan to continue, preferring to work with girls.

A summary of the work done as shown by the record books follows:

No. breakfasts prepared-----	37
No. outdoor meals prepared-----	9
No. dinners served-----	42
No. lunches prepared-----	54
No. demonstrations given-----	28
No. attending demonstration-----	108
No. garments laundered-----	55
No. garments ironed-----	37
No. garments mended-----	1
No. garments darned-----	15

No. garments patched-----7  
 No. garments sewed on-----19  
 No. garments pressed-----15  
 No. garments cleaned-----10  
 Value of garments cleaned---\$3.10  
 Cost of garments cleaned--- .18  
 Saving on garments cleaned--- 2.92  
 Members who took entire care of  
 their rooms for 2 weeks-----3

#### HOME EFFICIENCY PROJECT

Four girls in the Buffalo district, north of Lynden, who are high school graduates, and who have had home economics in high school, or in 4-H club work or both wished to organize a club that could work in a variety of projects, adding to their information on homemaking as a whole. They were all interested in keeping personal accounts, and two wished to keep home accounts as they had the main responsibility in running the household. Bulletins on food preservation, clothing, and meal preparation were provided which they were to use and all were started on accounts under the direction of their leader, Mrs. Ray Simons, a household accounts cooperator for the past five years.

In April, the Home Agent persuaded them to change their enrollment to the newly organized Home Efficiency project. Mimeographed material and bulletins were provided and considerable work has been done on this project as well as the work on other projects the early part of the year.

One of the members got a position as a stenographer at Olympia, and worked for part of her board, putting into practice such home management practices as she could. Two others kept household accounts for several months but were unable to continue because of extra work. This club, I believe, can become a strong homeefficiency club next year. Older girls in other communities will be encouraged to enroll in this project to round out their 4-H club experience.

#### PERSONAL ACCOUNTS

Personal account records have been kept by seven girls this year, four of them being enrolled in the household efficiency project, the others in the senior baking group at North Bellingham. A summary of their account books is shown:

Account No.	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
Months kept	12	12	10	10	10	10	9
Am't. received.	\$107.79	155.13	928.00	52.50	102.82	64.38	106.63
Food	1.70	3.33	250.22	1.10	3.68	3.50	.95
Clothing	43.79	42.36	140.51	42.81	32.02	23.29	55.68
Pers. Acct.	3.05	1.01	27.02	4.53	5.83	2.99	2.45
Health.	12.75	3.50	32.64	---	25.59	2.10	18.74
Education	41.54	80.92	.25	4.70	3.57	.10	16.50
Recreation	4.81	3.70	41.56	.70	3.22	8.11	.16
Personal	.50		2.11			7.70	.70
Other	.50	1.39	70.67	---	15.89	4.99	2.60
Gifts-Com.		.30	4.25	.10	1.56		
" -Pers.	.53	3.25	75.52		3.14	11.38	.20
Saved.	2.00		170.60			28.32	
Total shared, and spent.	111.69	139.75	914.09	52.50	94.73	50.25	105.43

A summary of 4-H work in home projects has been made to get a view of progress over a period of years as to enrollments and completions. The following table gives some interesting information. Whatcom County has over a period of years emphasized a high percent of completions rather than a high enrollment as better for the future of 4-H club work.

#### HOME PROJECTS 4-H CLUB SUMMARY

<u>PROJECT</u>	<u>ENROLLMENTS</u>	<u>COMPLETIONS</u>	<u>% COMPLETIONS</u>
Clothing	205	157	76.8%
Room Improvement	53	28	84.6%
Home Efficiency	5	4	80%
Meal Preparation	75	38	64%
Canning	14	9	64.4%
Baking	12	10	83.3%
Handy Homecraft	6	5	83.3%

Total number members enrolled-----350  
 Total project enrollment-----350  
 Total number members completing-----247  
 Percent of members-----74.5%  
 Total number of meetings held-----418  
 Total number of demonstrations-----190  
 Average number meetings attended-----12.3

#### WHATCOM COUNTY ENROLLMENT AND COMPLETION RECORD BY YEARS

<u>YEAR</u>	<u>HOME ECONOMICS</u>		<u>% COMPLETIONS</u>
	<u>ENROLLMENTS</u>	<u>COMPLETIONS</u>	
1927-28	187	142	85%
1928-29	276	193	70%
1929-30	339	230	68%
1930-31	309	250	80.9%
1931-32	329	263	80%
1932-33	367	268	73%
1933-34	362	284	78.6%
1934-35	309	229	80%
1935-36	330	247	74.2%



## FOUR-H MISCELLANEOUS

### NATIONAL BROADCAST

Whatcom County provided a half-hour program for the National 4-H broadcast this year. The Agents worked through the leaders council and assisted with the preparation. The following numbers were given:

Introduction—F. W. Frasier, County Agent.

"Why I have Been in 4-H Club Work Eleven Years"—Gordon McGraff.

Accordian Solo "Under the Double Eagle"—Beatrice Tollum.

"An Opportunity for Every Rural Boy and Girl"—Ray Shumway.

"A Leaders' Appreciation of a 4-H Club Council and Successful Achievement"—Mrs. Ole Nesset.

Trio—"The Four Leaf Clover"—Gertrude and Eunice Putnam and Gertrude Monsen.

"Six Years of 4-H Club Activity"—Edith Lingbloom.

Vocal Solo—"My hearts in the Highlands"

"The Effect of 4-H Influence on the Farm and in the Home"—  
Mrs. L. D. Beeman.

Accordian Solo—"Love Ship"—Beatrice Tollum.

### STATE FOUR-H CLUB CAMP

Whatcom County leaders still follow a county leaders' ruling, that the following requirements be met by all who attend State 4-H club Camp:

Two years club work completed.  
Work up to date in third year.  
Plans to continue at least one year more.  
At least 14 years of age.

Funds can be raised in the community for only one in a club of seven or less, or two in a larger club. All others to pay their own way, but all must meet the above requirement. This policy has been followed for at least four years, and in the opinion of the home agent, it has been one of the best means of improving 4-H club work in the county. Club Camp no longer is looked upon as an easily attained goal and the climax and sometimes the end of club work. After three years, a real interest is maintained and older members are gradually working into leadership.

This year, the Whatcom County delegation was 48, attendance distributed as follows:

Girls in home project—16  
" " Agri " — 5  
Boys in Home project—18  
Leaders in home proj.— 5  
Agricultural Agents— 2  
Home Agents— 2



Of the 24 home projects with eligible members, 12 clubs sent delegates this year.

Whatcom County won second place in the song contest—a rally day was held to prepare for this contest.

The Home Demonstration Agent assisted in the section on "Food Preservation by Refrigeration".

#### FAIRS—4-H

##### COMMUNITY

Lawrence Community held a 4-H club fair. The Extension Agents helped with the judging. The exhibits showed an improvement over last year. Several communities held exhibits to which the public was invited.

##### COUNTY

One of the largest buildings at the Lynden Fair Grounds was again assigned to the 4-H clubs of Whatcom County. 4-H leaders and older members served as superintendents of the different departments. Space was assigned for judging and demonstrations as well as exhibits. The increased enrollment in foods clubs made it possible to have an outstanding display of baked goods this year. The Junior clothing was the outstanding exhibit with a decided improvement in pressing. Senior clothing and Room Improvement exhibits showed good done in these clubs. The canning display was of fair quality.

##### STATE FAIR AT YAKIMA

No exhibits were sent to the State Fair due to lack of time for shipment as the local fair closed Saturday night and the State Fair opened the following Monday.

#### JUDGING

Seven teams participated in the judging contest--3 juniors and 4 seniors.

#### DEMONSTRATIONS

Three demonstrations were entered in the county contest. None of them acceptable in a county contest, but more of a club demonstration quality.

##### WESTERN WASHINGTON FAIR AT PUYALLUP

An exhibit of 36 prize clothing and room improvement 4-H articles from the Lynden Fair were sent on to Puyallup. Of this number 24 won awards, 11 firsts, 8 seconds, and 5 thirds.

Two senior judging teams were entered rating 7th and 9th respectively.

## TRAINING GIVEN 4-H LEADERS

### GENERAL.

#### LEADERS' MEETINGS.

(a) Whatcom County Council—Oct. Feb. April. July. Total Attendance 92.

(b) District meetings—Everett—24 leaders, 3 agents and members.  
King—1 leader and 1 agent.

(c) Clothing Project:

Leaders' meetings—"Planning the Club Girl's Dress"—April, 2 meetings  
Attendance 11.

"Selection and Care of Shoes"—given at above meet.

"Charm School"—one meeting. att. 16 leaders and  
24 older members. January.

"Care of Clothing—Mending Problems".

"Conducting of a Judging Contest" May. 2 meetings  
11 attendance.

"Planning and Making a Girl's Clothes"—Review  
and Lecture by Miss Mott—Attendance 15. May.

(d) Foods Project:

"Baking Breads"—2 four-H leaders attended.  
2 leaders attended H. D. bread  
meeting. 4-H demonstration of  
making gluten and making muffins  
at Leaders' Council meet. Att. 35.

Preserving foods  
by refrigeration.

Demonstration by 4-H team at H. D. Federation  
meeting. Att. 75.

(e) Room Improvement

No leaders' meeting held—help given to indi-  
vidual club leaders.

"Intangible" standards set at achievement meetings.

<u>Place</u>	<u>Attendance</u>
Lynden	150
Custer	65
North Bell.	90
Lawrence	150
Total	455

RECOMMENDATIONS FOR NEXT YEAR  
FOUR-H

1. Help to develop still further the County Council. Much has been accomplished through this organization, and much more can be accomplished if the programs can be planned to be fundamental and interesting.
2. Work for early enrollment as a means to more effective club work.
3. Stress members attaining much more than the minimum requirement.
4. Have every club as far as possible plan the year's work at the beginning of the year.
5. Give more help on keeping the Secretary's book, especially emphasizing the summary page.
6. The demonstrational phase of club work needs more thought and planning to be as effective as it should be in carrying through projects.
7. Hold a leader training meeting in each project early in November or early December, as a start in the new year's work.
8. Home visits to leaders have proven effective in the past year, and should be continued.
9. Encourage singing at most club meetings as a help in developing club interest and spirit. Not all clubs have used the song books this year.
10. Possibly more of symbolic ritual would be of help.
11. Some special way should be devised for recognizing the splendid services of the corp of fine leaders who are making possible an effective program in 4-H club work.

# 4-H HOME ECONOMICS PROJECTS

## BOYS

NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
McKelvey, Troy	Nooksack	Sewing	1	\$1.55	\$1.01
Woodard, Lane	Nooksack	Sewing	1	<u>1.60</u>	<u>.94</u>
				\$3.15	\$1.95
Banks, Bruce	Ferndale	Canning	4	<u>FRUIT</u> 65	<u>VEG.</u> 35
					<u>MISC.</u> 5
Hahnel, Alfred	R#8, Bellingham	Handy Homecraft	2		
Moline, Alvin	"	"	2		
Moline, Junior	"	"	2		
Whitley, Robert	"	"	3		
Wyman, Ronald	"	"	3		



# 4-H HOME ECONOMICS PROJECTS

## GIRLS

NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Aldrich, Mary	R#3, Ferndale	Sewing	1	\$1.00	\$ .47
Altena, Bonnie	R#1, Ferndale	"	2	10.60	2.25
Ambrose, Alma	Wickersham	"	2	.75	.40
Bajema, Ruth	R#2, Lynden	"	6	7.68	3.92
Bailey, Florence	Lynden	"	3	5.60	4.25
Banks, Betty	R#3, Ferndale	"	3	8.45	4.35
Barci, Wanda	R#3, Ferndale	"	3	5.98	2.83
Bender, Beth	R#1, Ferndale	"	2	3.80	1.95
Berghuis, Gladys	R#1, Ferndale	"	2	7.13	5.42
Berghuis, Susie	R#1, Ferndale	"	1	3.85	3.33
Breakay, Margaret	R#3, Bellingham	"	2	5.10	1.69
Blick, Ellen	R#3, Bellingham	"	7	13.90	11.04
Bostwick, Evelyn	R#1, Custer	"	3	8.96	5.08
Bostwick, Geraldine	R#1, Custer	"	3	5.14	2.95
Bouma, Leone	Lynden	"	2	1.75	.91
Bouma, Ruth	Lynden	"	1	.80	.28
Boukamp, Lucy	Lynden	"	2	1.69	.88
Buizer, Anna	R#2, Lynden	"	3	6.25	2.27
Caley, Harriet	R#2, Everson	"	3	12.89	7.67
Cannon, Berwyn	R#3, Bellingham	"	4	2.80	2.08
Cannon, Patricia	R#3, Bellingham	"	4	10.65	10.06
Clark, Pauline	R#3, Bellingham	"	1	3.60	1.76
Clark, Norma	R#3, Bellingham	"	1	.55	.45
Crabtree, Minnie	Lynden	"	3	6.05	2.89
Davis, Jean	R#1, Ferndale	"	3	33.03	17.68
Davis, Maxine	R#1, Lynden	"	2	3.95	2.33
Dennison, Laurel	Nooksack	"	1	1.70	.94
Doyle, Cecilia	R#2, Lynden	"	4	20.60	9.95
Dyrland, Jean	R#3, Bellingham	"	1	.80	.33
Elenbaas, Anne	Lynden	"	6	5.73	2.75
Elenbaas, Bernice	Lynden	"	4	4.66	2.40
Elenbaas, Winifred	Lynden	"	4	6.85	3.23
Ewing, Lucille	R#3, Bellingham	"	2	2.00	1.16
Ewing, Vera	R#3, Bellingham	"	3	3.70	2.20
Glass, Evelyn	R#2, Lynden	"	4	4.50	2.21
Grimes, Jean	R#3, Bellingham	"	3	4.90	1.76
Felmley, Marian	R#3, Bellingham	"	2	2.60	.80
Ferguson, Eleanor	R#1, Custer	"	1	2.15	.58
Ferguson, Lillian	R#1, Custer	"	1	2.00	.53
Freeman, Gloria	R#1, Blaine	"	1	.75	.65
Frombley, Lillian	R#3, Bellingham	"	1	1.70	1.16
Frombley, Mavis	R#3, Bellingham	"	2	2.85	1.37
Hahnel, Edith	R#3, Bellingham	"	1	.55	.40
Hahnel, Elizabeth	R#3, Bellingham	"	3	4.83	1.21
Vivian Hancock	R#1, Bellingham	"	1	.90	.55
Hatley, Lorraine	R#2, Everson	"	1	1.80	1.05
Heanski, Florence	R#1, Ferndale	"	3	5.00	2.19
Henry, Maxine	R#2, Everson	"	1	2.98	1.70

NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Hicks, Dorothy	R#3, Ferndale	Sewing	1	\$1.25	\$ .87
Hicks, Josephine	R#1, Bellingham	Sewing	2	2.35	.65
Hicks, Nella	R#1, Bellingham	Sewing	2	2.60	.80
Holmes, Eva	R#1, Lynden	"	2	4.49	2.05
Holmes, Helen	R#1, Lynden	"	1	2.95	1.11
Holtrop, Fern	Custer	"	2	4.21	1.83
Horat, Hattie	R#2, Lynden	"	3	12.35	5.18
Hunt, Alice	Hooksack	"	2	1.60	.95
Husfloen, Lola	R#2, Lynden	"	1	.55	.22
Jackson, Beverly	Ferndale	"	1	.72	.54
Jackson, Edythe	R#3, Bellingham	"	1	.55	.45
Jackson, Shirley	Ferndale	"	4	3.24	1.37
Johansen, May	R#2, Everson	"	1	2.50	.62
Jorgenson, Flora	R#3, Bellingham	"	2	2.35	.25
Jorgenson, Phyllis	R#3, Bellingham	"	2	5.60	.75
Keller, Dorothy	R#2, Ferndale	"	1	1.20	1.02
Kinnie, Charlotte	R#5, Ferndale	"	1	1.10	.94
Kirchner, Marie	R#3, Bellingham	"	1	2.15	.80
Klander, Betty	Lynden	"	1	1.00	.65
Kley, Jane	R#1, Blaine	"	1	.90	.50
Kline, Elisabeth	R#1, Blaine	"	1	1.05	.68
Kuckenreuther, June	R#1, Custer	"	2	4.96	1.20
Lange, Helen	R#3, Bellingham	"	3	2.90	2.05
Lyon, Vivian	R#2, Everson	"	1	1.50	.75
McConnoughy, Maxine	R#1, Everson	"	1	1.30	.88
McDonald, Margaret	R#1, Bellingham	"	2	6.02	2.04
McDonald, Annie	R#1, Bellingham	"	2	10.60	5.15
McMurry, Barbara	R#2, Everson	"	1	1.55	.98
McWilliams, Nedra	R#3, Bellingham	"	1	.55	.40
Mariotto, Cecilia	R#2, Everson	"	1	2.50	.70
Mariotto, Lucy	R#2, Everson	"	1	3.91	1.00
Markworth, Betty	R#1, Custer	"	2	3.64	1.99
Markworth, Lorraine	Custer	"	1	1.68	.87
May, Dorothy	R#1, Custer	"	1	1.75	.85
May, Shirley	R#1, Custer	"	1	1.80	1.00
Mitchell, Shirley	Wickersham	"	5	25.87	14.87
Muenschler, Bernita	Lynden	"	1	3.50	2.32
Muenschler, Eleanor	Lynden	"	1	8.25	5.54
Muenschler, Margie	Lynden	"	1	1.12	.62
Nelson, Alma	R#1, Lynden	"	4	10.46	4.55
Nesset, Dela	R#2, Everson	"	1	3.45	2.52
Nieven, Ada	Lynden	"	1	.60	.18
Norstrom, Eva	R#1, Everson	"	1	.55	.20
Noteboom, Jean	R#2, Lynden	"	2	4.10	1.68
Noteboom, Linda	R#2, Lynden	"	1	.65	.28
Ollestad, Wilma	R#3, Ferndale	"	3	3.30	3.05
Ostrom, Evelyn	R#3, Ferndale	"	2	.45	.30
Park, Lillian	R#1, Bellingham	"	2	2.92	1.77
Pearson, Eleanor	Lynden	"	5	6.04	2.61
Pearson, Lillian	Lynden	"	3	2.58	1.25
Pearson, Lois	Lynden	"	1	.47	.21
Peterson, Evelyn	R#3, Bellingham	"	2	2.40	.70



NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Pierce, Ruth	R#1, Custer	Sewing	4	\$10.00	\$8.25
Poole, Barbara	R#2, Sedro-Wooley	"	1	4.00	2.42
Posthumus, Marie	R#1, Ferndale	"	5	5.27	.88
Posthumus, Reta	R#1, Ferndale	"	5	12.00	7.18
Post, Janet	R#2, Everson	"	1	1.50	.75
Radonski, Edith	Wickersham	"	1	.75	.59
Reyman, Bernice	R#2, Lynden	"	1	5.27	2.59
Robertson, Sylvia	Ferndale	"	3	11.05	6.30
Roo, Florence	Lynden	"	1	.45	.16
Roo, Francis	Lynden	"	1	.85	.57
Rushold, Alta	R#2, Everson	"	3	10.50	5.50
Rushold, Gladys	R#2, Everson	"	1	1.20	1.20
Rushold, Sylvia	R#2, Everson	"	1	1.55	.92
Sakshaug, Norma	R#2, Lynden	"	1	.50	.16
Shea, Derrill	R#2, Lynden	"	2	5.69	2.88
Sheets, Betty	R#2, Lynden	"	1	.75	.45
Shintaffer, Margaret	R#1, Blaine	"	1	1.00	.59
Shumway, Lois	R#2, Lynden	"	11	14.90	5.24
Silver, Elsie	R#3, Bellingham	"	4	5.45	3.50
Silver, Idabelle	R#3, Bellingham	"	2	2.75	1.62
Sinkler, Maude	R#3, Ferndale	"	2	.65	.27
Smith, Bernice	Ferndale	"	1	2.69	1.49
Smith, Emily	R#2, Lynden	"	1	.60	.21
Smith, Erma	R#2, Lynden	"	1	.30	.17
Smith, Jeanne	R#3, Ferndale	"	1	.90	.68
Smith, Noma	R#2, Everson	"	1	2.45	1.70
Sturts, Sarah	Ferndale	"	7	22.98	16.54
Swanson, Evelyn	R#1, Custer	"	1	1.55	.94
Talman, Doris	Ferndale	"	1	1.25	.65
Teeple, Shirley	R#1, Bellingham	"	2	2.25	1.10
Thorp, Laura	Ferndale	"	1	1.00	.65
Thorp, Pearl	Ferndale	"	1	1.85	1.00
Thiel, Bonnie	Lynden	"	1	.45	.16
Thompson, Marjorie	Everson	"	1	1.60	.84
Tollua, Marjorie	R#2, Everson	"	1	.70	.24
Tollum, Marian	R#2, Everson	"	1	.74	.32
Unick, Elsie	R#3, Ferndale	"	3	16.87	10.24
Unick, Vera	R#3, Ferndale	"	1	1.25	.96
Vander Oriend, Jane	Lynden	"	4	5.32	2.54
Von Baw, Nellie	R#1, Ferndale	"	2	20.10	12.95
Waterbury, Joyce	Everson	"	5	6.90	5.95
White, Juanita	R#2, Lynden	"	2	4.87	2.75
Whitley, Adrienne	R#3, Bellingham	"	4	4.75	2.00
Willits, Alice	R#2, Blaine	"	3	12.07	8.55
Willy, Jane	R#3, Bellingham	"	2	2.60	.80
Willy, Lois	R#3, Bellingham	"	2	5.10	1.15
Wood, Carol	R#2, Lynden	"	6	23.64	15.54
Wood, Lillian	Lynden	"	1	2.00	1.55
Wolf, Dorice	R#1, Custer	"	1	3.29	5.70
Wolf, Anzonetta	Everson	"	1	1.45	1.03
Wyatt, Ferel	R#1, Ferndale	"	4	5.90	2.71
Zylstra, Susan	Custer	"	1	1.45	1.00
				\$681.41	\$372.89

NAME	ADDRESS	PROJECT	YEAR	VALUE	LABOR PROFIT
Altena, Anna	Everson	Room Imp.	4	\$7.32	\$1.57
Barnhart, Winifred	R#1, Bell.	"	4	10.12	3.83
Bartlett, Patricia	R#2, Lynden	"	4	2.95	.82
Bostrom, Martha	R#1, Blaine	"	1	3.99	1.44
Crazer, Rita	R#2, Lynden	"	7	16.07	11.06
Doyle, Cecilia	R#2, Lynden	"	4	4.50	3.70
Germain, Eunice	Everson	"	7	13.25	8.90
Gets, Elane	R#1, Bellingham	"	1	3.00	2.20
Hicks, Alice	Nooksack	"	3	3.08	1.28
Hunt, Mary E.	Nooksack	"	3	7.83	2.93
Jackson, Helen	R#3, Bellingham	"	2	3.52	1.76
Kley, Marie	R#1, Blaine	"	1	3.70	1.48
Marshall, Ruth	R#1, Bellingham	"	3	3.96	2.96
Michelson, Mae	R#1, Blaine	"	1	14.80	6.75
Miller, Faith	R#2, Everson	"	7	1.75	1.17
Morton, June	R#1, Bellingham	"	4	8.72	.75
Park, Florence	R#1, Bellingham	"	3	10.65	7.50
Putnam, Eunice	R#2, Everson	"	7	13.49	11.12
Ralph, Roma	R#1, Bellingham	"	4	7.14	4.46
Rogers, Shirley	R#2, Bellingham	"	7	14.55	5.00
Roosendaal, Jennie	R#2, Lynden	"	3	3.53	2.74
Sills, Veda	Nooksack	"	5	4.20	2.21
Teeple, Gwendolyn	R#1, Bellingham	"	2	10.44	7.44
Toler, Nadine	R#3, Bellingham	"	4	18.35	12.22
Toler, Norma	R#3, Bellingham	"	5	4.50	1.85
Urfer, Violet	R#2, Lynden	"	7	9.75	2.80
Wood, Carol	R#2, Lynden	"	6	3.60	1.55
				<u>\$208.61</u>	<u>\$110.99</u>

Palmer, Ella	Ferndale	Home Efficiency	5
Palmer, Pansy	Ferndale	"	5
Pierce, Ruth	R#1, Custer	"	4
Simons, Beryl	R#2, Blaine	"	7

CANNING:		YEAR	FRUITS	VEG.	MISC.	Jars JELLY	Jars JAMS
Aldrich, Mary	R#3, Ferndale	1	20½	12	8½		
Davis, Jean	R#1, Ferndale	3	36	41	30	3	40
Posthumus, Reta	R#1, Ferndale	5	91½	50		12	36
Sinkler, Maude	R#3, Ferndale	2	19½		12	2	5
Sturtz, Sarah	R#1, Ferndale	7	18	39	2½	4	204
Thomas, Lucile	Bellingham	2	51	4			
Wood, Carol	Lynden	6	226	145	43	180	366
Wyatt, Feral	R#1, Ferndale	4	40	21	22	9	8
			<u>502½</u>	<u>312</u>	<u>118</u>	<u>213</u>	<u>653</u>



NAME	ADDRESS	YEAR	BREAD	OTHER BAKING
Dameron,	R#1, Bellingham	2	30	17
Davis, Sh	R#1, Custer	3	31	64
Denker, E	R#2, Bellingham	7	50	14
Forsythe,	R#1, Custer	6	33	11
Hardan, R	R#1, Bellingham	7	36	80
Hardenbro	R#2, Bellingham	3	30	28
Hougan, I	R#1, Bellingham	5	31	31
Knibbs, M	R#2, Bellingham	5	42	31
Lingbloom	R#1, Bellingham	6	30	12
Lingbloom	R#1, Bellingham	7	27	13
Pearce, I	R#2, Bellingham	7	30	31
Peterson,	R#2, Bellingham	3	33	13
Thompson,	R#2, Bellingham	1	24	31
			427	448

NAME	ADDRESS	YEAR	DISHES	BREAD	OTHER
Allbaugh,	R#1, Everson	1	40	-	8
Baer, Li	R#1, Ferndale	2	21	-	14
Baer, Be	R#1, Ferndale	1	17	-	6
Baer, Al	R#1, Ferndale	1	24	-	14
Baer, Do	R#1, Ferndale	1	26	-	2
Blakesle	R#1, Ferndale	4	55	-	8
Clendene	R#1, Bellingham	2	14	-	4
Clendene	R#1, Bellingham	4	21	-	9
Davis, D	R#1, Bellingham	1	18	4	-
Dahl, El	R#3, Bellingham	7	61	2	16
Guy, Vir	R#2, Lynden	5	40	3	7
Gerard,	R#1, Bellingham	8	40	18	-
Harrison	R#1, Ferndale	"	44	-	13
Hamond,	R#2, Bellingham	"	28	-	12
Hall, Be	R#2, Bellingham	"	28	5	-
Howen, S	R#2, Everson	"	42	18	8
Hardan,	R#2, Bellingham	"	20	-	7
Hall, Ev	R#2, Bellingham	"	26	-	8
Hammond,	R#2, Bellingham	"	13	-	6
Jensen,	R#1, Ferndale	"	26	-	-
Johnson,	R#2, Lynden	"	21	-	18
Knibbs,	R#2, Bellingham	"	24	-	7
Knibbs,	R#2, Bellingham	"	33	-	10
Knibbs,	R#2, Bellingham	"	22	-	9
Lewis, I	R#1, Ferndale	"	17	-	8
Lenhart	R#1, Ferndale	"	18	-	14
Lindquist	R#2, Bellingham	"	70	3	10
Oswald,	R#1, Bellingham	"	21	-	4
Oiness,	R#2, Lynden	"	59	-	20
Pehrson	R#1, Bellingham	"	26	-	5
Pinkney,	R#3, Bellingham	"	23	7	14
Putnam,	R#2, Everson	"	55	9	11
Rutquiste	R#2, Bellingham	"	55	-	9
Turner,	R#2, Bellingham	"	18	-	4
Vander Ice	R#2, Lynden	"	32	-	6
Vander Ice	R#2, Lynden	"	8	-	2
Wood, C	R#2, Lynden	"	70	24	10
Wood, C	R#2, Bellingham	"	33	-	21
Wood, I	R#2, Lynden	"	50	-	-
Westover	R#2, Bellingham	"	23	-	12
Willardelle	R#2, Bellingham	"	33	-	4
			1375	93	340

	ADDRESS	PROJECT	YEAR	Dishes Prepared	Bread	Other
Man, Shirley	Bellingham	Meal Prep.	1	44	2	10
German	Bellingham	" "	1	15	1	4
son, Lucille	Bellingham	" "	1	15	1	3