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State
ANNUAL REPORT
OF THE
COUNTY AGRICULTURAL AGENT

OUTAGAMIE COUNTY

NOV. 1, 1939 — NOV. 1, 1940

DEC 3 - 1940

AGRICULTURAL COMMITTEE

Walter Blake, Chr.

Arthur Genske - Fred Blohm - A. W. Zerbel

Leo Bleck

Mike Mack - Henry Van Straten

November 12, 1940

To the Honorable Board of Supervisors
Outagamie County

Mr. Chairman, and Gentlemen:

I herewith respectfully submit my report for the period November 1, 1939, to November 1, 1940.

Each year the agricultural committee, county agent, and county agent supervisor plan a program of work. This planned program is followed as closely as possible, but this year as always we have found it necessary to take care of many problems not specified in the program. Last fall the following program of work was set up as a guide to direct the work of your extension agent.

PROGRAM OF WORK

November 1, 1939 - November 1, 1940

<u>Phase of Work</u>	<u>Goals</u>
4-H Club Work.	400-600 Members 25-35 Clubs 80% Achievement 3-day Club Camp Play Contest Music Contest Booths and Exhibits at Fairs 35 Demonstration Teams 4-H Bull Sale 4-H Nursery 4-H Publication - 8 Issues Achievement Program 6 4-H Leadership Training Meetings
Dairy Products Improvement Program	County-wide Area Quality Campaign 113 School Meetings Dairy Plant Managers' Meeting 3 Leaders' Meetings 1 Dairy Farmers' Meeting Cooperate with Dept. of Agriculture

<u>Phase of Work</u>	<u>Goals</u>
Dairy Herd Improvement.	Maintain 6 DHI Associations Continue Educational Work on Bang's Continue Promotion of Bull Rings Work on Bull Calf Program Show Herd at State Fair Cooperate with Breed Associations
Federal Programs.	Function as Secretary to AAA Head up Educational Work
Soil Improvement.	Cooperate with Agr'l. Instructors Continue Soil Analysis Continue Lime Program Educational Work on Lime & Com. Fertil. Continue Alfalfa Promotion Fertilizer Plots on Cabbage and Potatoes

MINORS

- Crop Improvement. Potatoes, cabbage, barley, corn,
and variety plots
- Poultry Improvement Disease control and sanitation
- Orchard and Small Fruit Schools
- Rat Control
- Windbreak Plantings

(Signed) Albert Krueger
Chairman of Committee

(Signed) J. F. Magnus
County Agr'l. Agent

(Signed) E. A. Jorgensen
District Supervisor

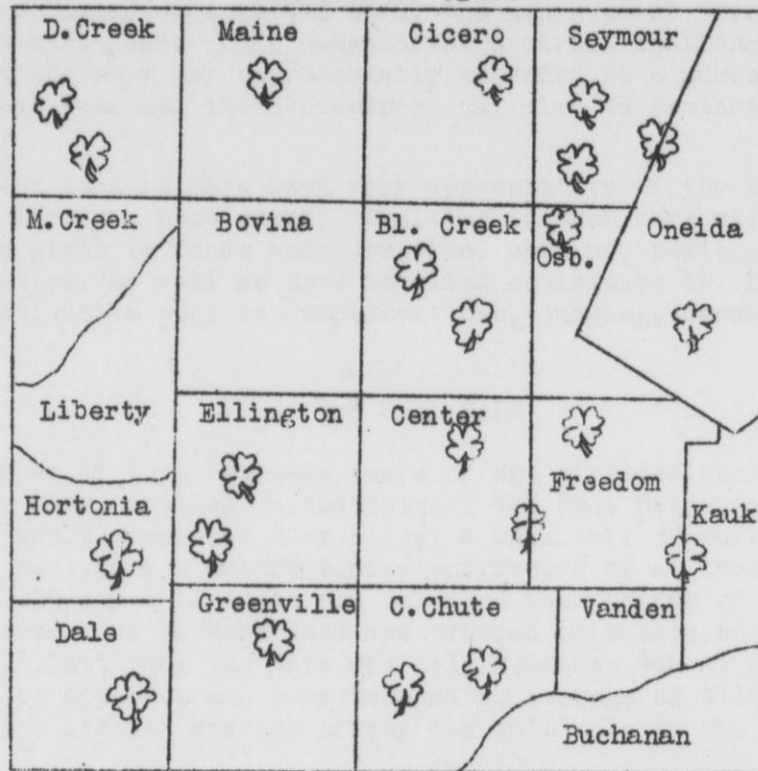
Approved J. F. Wojta

Date November 22, 1939

4-H CLUB ACTIVITIES

22 Clubs
359 Members, 142 Boys - 217 Girls

Location of Clubs



<u>Name of Club</u>	<u>Township</u>	<u>Enrollment</u>
Bear Creek Happy Workers.	Deer Creek	31
Black Creek.	Black Creek.	11
Clover Lawn	Deer Creek	21
Columbine	Grand Chute.	10
Crystal Star.	Osborn--Seymour.	25
Fairview.	Black Creek.	11
G.F.C.	G. Chute-Freedom-Center	13
Happy Hearts.	Freedom--Osborn.	13
Happy Hortonville	Hortonia.	5
Kau-Free.	Kaukauna--Freedom.	14
Leeman.	Maine.	14
Medina.	Dale.	17
North Cicero.	Cicero-- Seymour	14
Pleasant Corners Happy 4-H Girls.	Greenville	20
Pleasant Vale	Ellington.	9
Pine Grove.	Oneida--Seymour.	9
Seymour Mixing Bowl	Seymour.	9
St. Mary's Hustlers	Seymour.	23
Triangle.	Grand Chute.	26
Wide Awake Forward.	Center	21
Willing Workers	Ellington.	22
Woodland Hustlers	Seymour.	21

22 Clubs

TOTALS

Members 359

This year, with the addition of our home agent, Miss Skutley, to the county extension office, several new 4-H Clubs were organized and the enrollment increased from 266 to 359 members. As often happens when new clubs are organized and placed under the leadership of adults without past experience in 4-H work, the achievement percentage was lower than last year. This constitutes a direct challenge and it is hoped that the work may be reasonably extended to a number of new members next year and the achievement may also be restored to a higher level.

The 4-H leaders have been very appreciative of the county board's action in hiring a home agent, resulting in much more effective training of the girls in foods and nutrition, canning, sewing, room and home beautification, as well as more detailed assistance to the clubs in outside activities such as demonstrations, judging, drama, and so forth.

4-H BULL SALE

A number of boys fourteen years of age or older each of the past four years have enrolled in the Special 4-H Bull Project. With the aid of an adult committee they select a bull calf of outstanding type whose dam must have a mature equivalent record of at least 350 pounds of fat in 305 days. Animals are selected that become of serviceable age in October and November and are offered at public auction about that time. Last year the sale was held November 4th at Dr. Madsen's sale barn in Appleton and they brought an average of \$119.00 per head. This was the highest average of any 4-H bull sale in the state last year.

4-H SHOW HERD

A county 4-H Holstein show herd was exhibited at the Junior State Fair again this year and made a very creditable showing. Carlton Wieckert's calf was the Grand Championship Holstein bull. Enough premiums were earned to pay all expenses and give each boy one-half of the state premium won.

4-H FORESTRY PROJECT

Not many boys are taking the forestry project, but some very fine trees have been made available to those who are through the cooperation of the County Park Board. Each year trees are obtained from the State Conservation Commission and planted at the County Detention Camp where they are cared for for two years before being allotted to the boys for windbreak plantings. This same service is offered to the farmers and this past year over 20,000 trees were distributed for windbreak plantings.

LIVESTOCK

Approximately 80% of our farmers income, which will be around \$10,000,000.00 this year, is from livestock and livestock products, so naturally a good share of the county agent's time and efforts are spent on some phase of livestock work. About 65% of the total income comes from dairy cows and dairy products.

QUALITY MILK PROGRAM

The legislature at its last session appropriated \$80,000.00 for the Department of Agriculture to put on a state-wide Quality Milk Program. Outagamie county was the first county in the state to adopt it. The program was first explained to the agricultural committee of the county board, then to a group of about 100 farmers from all parts of the county, and then to the operators of the milk plants. Each group heartily endorsed the program and it was then explained to the community committeemen working on the AAA program. These men made arrangements for holding farmers meetings at 125 school houses throughout the county and also selected two leaders to explain the Quality program at the meetings. These leaders were given the details as to how the Quality program would operate at a series of three meetings in different parts of the county. On the evening of December 8th 250 farmer leaders held 125 school house meetings and discussed the program thoroughly with the farmers in their school districts. I received reports from 120 of the school house meetings showing that 1778 farm families and 2494 farm people attended. A very large majority of the farmers were quite enthusiastic about the program and were glad of the opportunity to be the first county of the state to adopt it.

When arrangements were being made for the above mentioned meetings Department of Agriculture inspectors made a cross-section survey to find out the quality of milk being delivered by our farmers to the milk plants of the county before starting the program. The inspectors also checked with every milk plant to see that each was equipped to take sediment and Methylene Blue tests so that bi-weekly reports could be made to their patrons on the quality of milk delivered. Many farmers have reported that they received reports on the quality of their milk since the program started for the first time in their lives. Several circular letters have been sent out to all the farmers giving instructions for taking care of barns, cows, milking utensils and on the cooling of milk. Directions and diagrams for building life-time cooling tanks at low cost have also been furnished.

Outagamie county can well be proud of the high quality milk being delivered at our dairy plants as well as the fine, uniform dairy products being put on the market by our dairy plant operators.

Dairy plant inspectors' reports to my office for April, May, June, July, August, and September show that about 90% of the sediment pads are now in the fair and clean class, and that about 95% of the milk stands

up three to five hours and more under the Methylene Blue test. Surely, this is a fine record for our enterprising farmers and dairy plant operators.

Some farmers wanted to know how much more actual cash they would receive if the quality of their milk was improved. They were told that no promises could be made along that line, but that with the South and West going more and more into dairying and other foods competing for a place in the human stomach, it was necessary to improve the quality of our milk and dairy products in order to hold our present markets. However, some cash returns have resulted as more of our plants are making State Brand cheese and the makers get a higher percentage yield of cheese from high quality milk than they do from poor quality milk.

DAIRY SALES PROMOTION CAMPAIGN

As a follow-up of the Quality Milk Program and as an incentive to keep the farmers "Quality Conscious" a Dairy Sales Promotion Campaign was sponsored October 17, 18, and 19. Very fine cooperation was received from the Appleton Chamber of Commerce and the Business Men's Association of Little Chute, Kaukauna, Hortonville, Shiocton, and others in this work.

The Appleton Chamber of Commerce had special banners a foot wide and three feet long prepared and posted in the store windows of all of their members reading "Boost Outagamie County Dairy Products - October 17, 18, and 19". Many of the stores made special dairy product displays in their windows. A large full page announcement of the sales days was carried in the Appleton Post Crescent and radio talks were scheduled over WHBY. The milk distributors of the city decorated their bottles with a collar announcing the Dairy Sales and promoting increased consumption of milk, butter, cheese, and ice cream. The county Cheese Makers Association contributed cheese prizes for sponsoring a Dairy Menu Contest. The Department of Agriculture furnished large buttons and over-seas caps boosting dairy products for clerks to wear during the sale dates and also window display kits.

Checking with the food merchants during and after the sale dates I was informed that the sales of dairy products was at least tripled during the sale and a continued demand for certain brands of cheese was had into the following week.

DAIRY HERD IMPROVEMENT ASSOCIATIONS

A dairy herd improvement association is a cooperative organization of 25 to 30 farmers who employ a tester to make a complete check of every cow in the herd each month as well as feed costs in order to figure the profit or loss for the year. Identification records are also kept and daughter-dam comparisons figured to check the value of the herd sire. One new

association was organized in the county the past year.

7 Associations
195 Members
3,000 Cows on Test

Associations and Testers

Holstein Association No. 1 - - - - -	Donald Brownson
Holstein Association No. 2 - - - - -	Donald Johnson
Cicero-Black Creek Association - - - - -	William Yonkman
Guernsey Association - - - - -	George Baumeister
Outagamie Association No. 5- - - - -	Merlin Wolf
Outagamie-Seymour Association No. 6- - - - -	Clyde Oleson
Outagamie Association No. 7- - - - -	Marlin Fuerst

BULL ASSOCIATIONS

There are three cooperative bull rings in the county--one Holstein ring and two Guernsey rings. Each ring consists of four farmers owning four bulls which are rotated annually. Thus at the end of four years each farmer will have offspring from all four bulls. All members of these bull rings belong to D.H.I. associations and the daughters of each bull will be tested as soon as they freshen. This way the poor bulls can be eliminated without doing a great deal of damage to any one man's herd and the good bulls can be saved and continued in service. The Holstein breeders have daughters of their bulls old enough for breeding and the Guernsey breeders have daughters of their bulls that are just starting to freshen. In a little over a year the Guernsey breeders will have proved their bulls and will know which ones to keep in service and which ones to sell to the butcher.

Guernsey Association No. 1

Victor Leppla
Jamison Brothers
Otto Zschaechner
Aug. Grunwaldt & Son

Guernsey Association No. 2

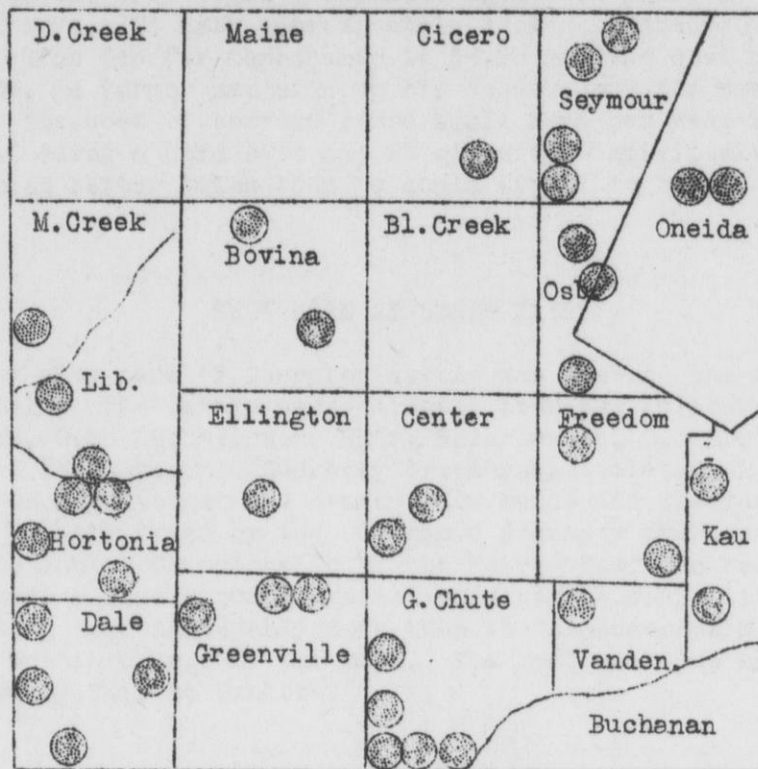
Jamison Brothers
Ora Breित्रick
John Fredrich
Ed. Dietz

Holstein Association No. 1

Leon Wasserbach
John Dobberstein
Maurice Powers
Frank Appleton

OUTAGAMIE BETTER SIRES COOPERATIVE

Location of Members



This organization was formed two years ago for the purpose of placing production bred bull calves with farmers to raise for herd sires. No calf is purchased for a farmer unless the calf's dam has a mature equivalent record of at least 300 pounds of butterfat in 305 days. When a member has used a bull as long as possible he will notify the board of directors of the organization and they will make exchanges of bulls with different members.

ARTIFICIAL INSEMINATION OF DAIRY CATTLE

The Tri-County Breeders Association was organized for the purpose of artificially inseminating dairy cattle. The Association was organized with members in Outagamie, Shawano, and Marathon counties, with headquarters at Shawano. All the bulls are kept at one farm near Shawano. When the association was organized it was intended to have one veterinarian located at Shawano, one at Wittenberg, and one at Appleton. Since that time Brown County joined and there is a possibility that Waupaca county may join. At present four full-time veterinarians are employed—one being located at Shawano, one at Wittenberg, one at Green Bay, and one at Appleton. Two members from each of the four districts serve as the board of directors of the organization.

Eleven of the best sires obtainable have been procured--five Holsteins and six Guernseys. To date approximately twelve hundred cows have been inseminated. The fee for membership is \$5.00 and the cost for service is \$5.00 per cow. A farmer can sign up his entire herd for service or any part of it. The cost of service for a small herd per year is less than the cost of feeding a herd sire and it gives the individual farmer the service of much better bulls than he could afford to buy.

SHOW HERD AT STATE FAIR.

A county show herd of Guernsey cattle was sent to the State Fair again this fall. The cattle were selected from the following herds--Victor Leppla, Otto Zschaechner, Harry Haferbecker, Ora Breitrack, Jamison Brothers, and the Outagamie Guernsey Breeders Association No. 3. The herd placed second amongst the county show herds and the young bull Pine Manor Crown Majesty owned by the Outagamie Guernsey Breeders Association No. 3 won the Junior Championship of the Fair. Fourteen head were shown in all and made a fine showing against very strong competition. Prize money amounting to considerably more than the expenses were earned. Melvin Haferbecker was in charge of the herd. The herd was also shown at the Winnebago County Fair at Oshkosh.

DAIRY DAY PICNIC

The annual dairy day picnic was held at Riverside Park at Kaukauna. The arrangements were in charge of a committee representing the county D.H.I. associations, Holstein and Guernsey breed clubs, 4-H groups, FFA, agricultural teachers, and business men of Kaukauna.

Dr. E. E. Heizer of the University of Wisconsin gave the main address. The county 4-H demonstration contest was held at the picnic and the winners selected later represented the county at the State Fair. A junior and senior cattle judging contest was sponsored with George Werner of the College of Agriculture deciding the winners. Races and games for the younger children were carried on under the direction of Hugh Alberts, Smith-Hughes agricultural instructor of Shiocton. Music was furnished by the Kaukauna High School band.

AGRICULTURAL CONSERVATION

This year the payments to the farmers under the Agricultural Conservation Program have been made much earlier than heretofore. So far about 2800 farmers have received \$150,000.00 for the 1940 season. Approximately 300 farmers are still to be paid.

The first year each township elected three committeemen to administer the program in their township. Each township also elected a delegate to a county convention at which they elected three county committeemen to administer the county program. Joseph Garvey is county chairman, Thomas Dorsey, vice-chairman, and Irvin Schmit, third member for the coming year. The county agent serves as secretary.

The program the past year was very similar to the previous year, the purpose being to give farmers all over the country an opportunity to work together to save their soil and its fertility, to earn a fair share of the national income, and to assure consumers of abundance.

Two types of payments can be earned--one payment of \$0.99 per acre for staying within their soil depleting allotment, and the other known as the soil building payment earned by certain soil building practices such as the seeding of legumes, application of lime, and the application of commercial fertilizers and soil building crops, as well as a few others not universally practiced.

SOILS

SOIL TESTING SERVICE

The free soil testing service has been continued the past year and many farmers have had soil samples analyzed for acidity, phosphorus, and potash. Reports are sent out giving the result of each test and recommendations given for treatment of the soil for a specified crop.

COMMERCIAL FERTILIZER PLOTS

Through C. J. Chapman, soils specialist of the College of Agriculture, a ton of commercial fertilizer was obtained from the National Association of Fertilizer Dealers and used for demonstration purposes. The three agricultural instructors--James Judd of Kaukauna, Willard Reese of Seymour, and Hugh Alberts of Shiocton, each cooperated in finding farms in their respective areas where fertilizer plots were established. Yard square areas of grain were harvested from fertilized and unfertilized areas on the same fields with the following results. (see next page)

Name and address of Cooperator	Soil Type	Kind of Grain	Treatment	Rate per Acre	Yield per acre grain	Yield per acre Straw	Bushels increase grain	Pounds increase straw	*Value of Inc. grain - straw	Cost of fertil-izer	Net Profit per acre
Wesley Poole Shiocton	Silt Loam	Oats	0-20-0	275	73.9	3248	34.4	1266	\$13.93	\$3.52	\$10.41
			0-20-10	275	88.5	3854	49.0	1872	19.96	5.04	14.92
			0-20-20	240	75.0	3237	35.5	1255	14.31	5.70	8.61
			Check		39.5	1982					
Martin Arts Kaukauna	Clay Loam	Oats & Barley Wheat Wheat	0-20-10	125	53.1	3788	0.0	- 88	Loss		
			0-20-20	125	60.6	4384	7.5	508	4.14	2.97	1.17
			Check		53.1	3876					
Francis Reichel Kaukauna	Clay Loam	Barley	0-20-10	125	60.6	3722	10.8	584	6.28	2.29	3.99
			0-20-20	125	75.2	4734	25.4	1596	15.09	2.97	12.12
			Check		49.8	3138					
Duett Johnson Kaukauna	Clay Loam	Barley & Oats Wheat "	0-20-10	125	85.3	6690	20.4	220	8.85	2.29	6.56
			0-20-20	125	86.6	7180	21.7	270	10.15	2.97	7.18
			Check		64.9	6910					
Robert Gosse Seymour	Silt Loam	Barley	0-20-0 Check	125	81.6 78.4	2214 2180	3.2	34	1.49	1.59	-:10

*Oats figured at 35¢ - barley at 50¢ - oats-barley & wheat at 45¢ - straw at \$3.00 per ton

Some fertilizer was also obtained through Vic Burcalow, pasture expert of the College of Agriculture, and again the agricultural teachers cooperated in finding farms to test the fertilizer in pasture improvement work. The results in this case were not as obvious as the farmers turned their cattle on the plots too soon after application of the fertilizer. However, these plots will be observed and checked next year again.

LIMESTONE PROJECT

The lime project was again operated the past year with no cost to the county. All orders are paid for in advance to the county agent's office and then deposited with the county treasurer and checks in payment and delivery for same are reissued by the county treasurer. The two quarries taking orders at all times of the year are the Kenneth Hodgins quarry located in the Town of Hortonia and the Black Creek quarry located in the Town of Cicero.

The prices as filed by the two quarries in the various townships of the county are shown below. Lime was also ordered under the Grant of Aid program through the county AAA office. The number of tons shown on the succeeding page.



<u>Black Creek Quarry</u>	<u>Hodgins Quarry</u>
Black Creek.	Dale.
Bovina.	Ellington
Buchanan	Grand Chute
Center	Greenville.
Cicero	Hortonia.
Dale	Liberty
Deer Creek	Maple Creek
Ellington.	Vandenbroek
Freedom.	
Grand Chute.	
Greenville	
Hortonia.	
Kaukauna	
Liberty.	
Maine.	
Maple Creek.	
Oneida	
Osborn	
Seymour.	
Vandenbroek.	

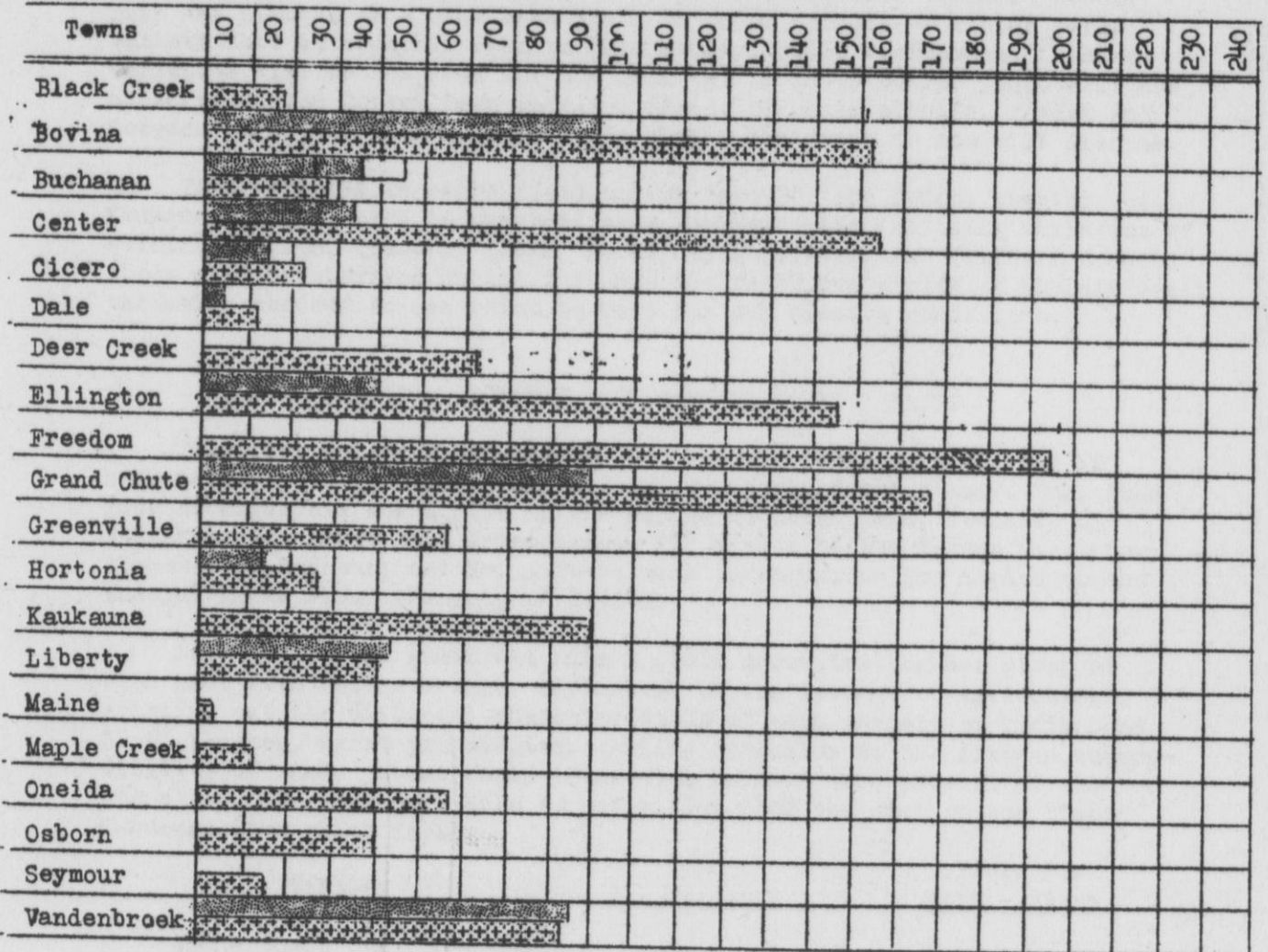
Financial Statement of Lime Project

Balance, November 1, 1939.	\$219.40
Received from sale of 1352.4 tons of lime	
from Nov. 1, 1939 - Nov. 1, 1940	1920.90
Total Receipts.	<u>\$2140.30</u>
Paid for lime and delivering - Nov. 1, 1939 - Nov. 1, 1940	
Black Creek Limestone Co.	\$1790.18
Hodgins.	90.55
Miscellaneous.	28.81
Total Paid.	<u>1909.54</u>
Balance, November 1, 1940	<u>\$ 230.76</u>
Lime orders not paid for--	
Black Creek Limestone Co	\$135.83
Hodgins.	10.80
	<u>146.63</u>
Balance	<u>\$ 84.13</u>

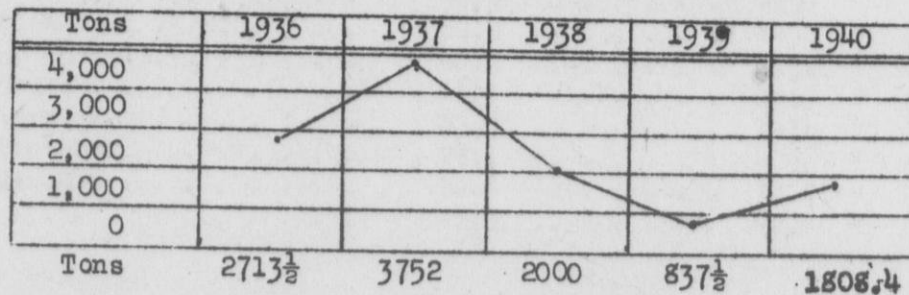
LIME DELIVERED TO TOWNSHIPS
Nov.1, 1939 - Nov.1, 1940

(Each section represents 10 tons)

-  - Lime ordered through county agent's office
-  - Grant of Aid lime ordered through AAA office



Lime delivered to farmers from county lime projects during the last five years. The 1940 tonnage includes Grant of Aid lime ordered through the AAA office.



FIELD CROPS

ALFALFA PLOTS

Last year a one-acre planting was seeded to a 50-50 mixture of Ladak and Cossack alfalfa on the Thomas Dorsey farm, township of Black Creek. This was planted in a nine acre field of Grimm alfalfa—a winter hardy variety that is commonly sown in this county. Wilt resistance of these varieties will be compared for the next two or three years. Some wilt has appeared on the Dorsey farm in older fields of Grimm alfalfa. Ladak and Cossack varieties are supposed to be highly resistant to the wilt disease.

This spring a two-acre field on the farm of John Dolan, township of Kaukauna, was planted in one-half acre strips to the following varieties of alfalfa: Grimm, Cossack, Ladak, Hardigan, Hardistan, and Oklahoma Common. These will be observed during the next few years and yields of the different varieties checked to see which is best for our climate conditions.

GRAIN, SOYBEAN, AND CABBAGE VARIETY PLOTS

This past season grain and soybean variety plots were planted in cooperation with the three agricultural teachers of the county. Mr. Judd made arrangements for a plot on the Elwood Kobussen farm, township of Buchanan; Mr. Reese made arrangements for a plot on the Norman Maass farm, township of Seymour; and Mr. Alberts made arrangements for a plot on the Rudolph Locke farm, township of Bovina.

Just before the grain was ripe a field demonstration was given at each plot with George Briggs, agronomist of the College of Agriculture, pointing out the different characteristics of each variety of grain, and R. E. Vaughan, plant pathologist, calling attention to the disease susceptibility of each. About forty interested farmers were present at each of the plots. We were only able to get yields from the plot on the Elwood Kobussen farm which follow:

<u>Variety</u>	<u>Bu. Per Acre</u>	<u>Yield Per Acre - Straw</u>
Gopher Oats	105.6	5418 lbs.
Vicland.	92.2	4096 "
Wis. No. 1 Oats	56.7	6150 "
Wis. No. 7 Oats	55.1	4932 "
Swedish Select Oats	52.3	2979 "
Forward Oats.	50.9	4299 "
Spooner Oats.	50.5	4490 "
Wis. No. 19 Oats.	40.5	5132 "
Flax-Common	11.1	1300 "
Flax-Bison.	13.3	1431 "
Wheat-Thatcher.	28.1	4096 "
Wheat-Marquis	12.6	3722 "
Speltz	46.8	4294 "

Soybean plots were checked at the Elwood Kobussen farm, town of Buchanan, and at the Rudolph Locke Farm, town of Bovina, with the following results.

ELWOOD KOBUSSEN FARM - KAUKAUNA
Soil Type - Red Clay

Variety	Approx. Height	Stage of Maturity (1)	Stiffness (2)	Values		Weight of 1 Rod Row
				Hay	Seed	
1. Manchu Common	47"	7	A	Ex.	Green	14 lbs.
2. Mukden	41"	7	A	Ex.	Green	16 "
3. Mandell	39"	8	A	Ex.	Ripe	12 "
4. Illini	47"	7	A	Ex.	Green	15 "
5. Dunfield	33"	8	A	Fair	Part Ripe	8½ "
6. Richland	42"	7	A	Ex.	Green	16 "
7. Wis. Early Black	23"	9	A	Poor	Ripe	6 "
Kingwa	42"	5	A	Ex.	Green	12 "
Cayuga	31"	9	A	Poor	Ripe	7 "

RUDOLPH LOCKE FARM - SHIOCTON
Soil Type - Muck

Variety	Approx. Height	Stage of Maturity (1)	Stiffness (2)	VALUES		Weight of 1 Rod Row
				Hay	Seed	
1. Manchu Common	48"	6	B	Ex.	Green	25 lbs.
2. Mukden	47"	6	B	Ex.	Green	18 "
3. Mandell	43"	6	B	Ex.	Green	25 "
4. Illini	48"	6	B	Ex.	Green	16½ "
5. Dunfield	43"	7	B	Ex.	Green	22 "
6. Richland	38"	8	B	Ex.	Green	15 "
7. Wis. Early Black	37"	10	A	Good	Ripe	10½ "
Manchu No. 3	48"	9	B	Fair	Green	10½ "
Manchu Spooner	35"	9 - 6	B	Good	"	13½ "
Habars	32"	9	B	Poor	Ripe	9½ "
Mandarin	42"	10	A	Poor	Ripe	6 "

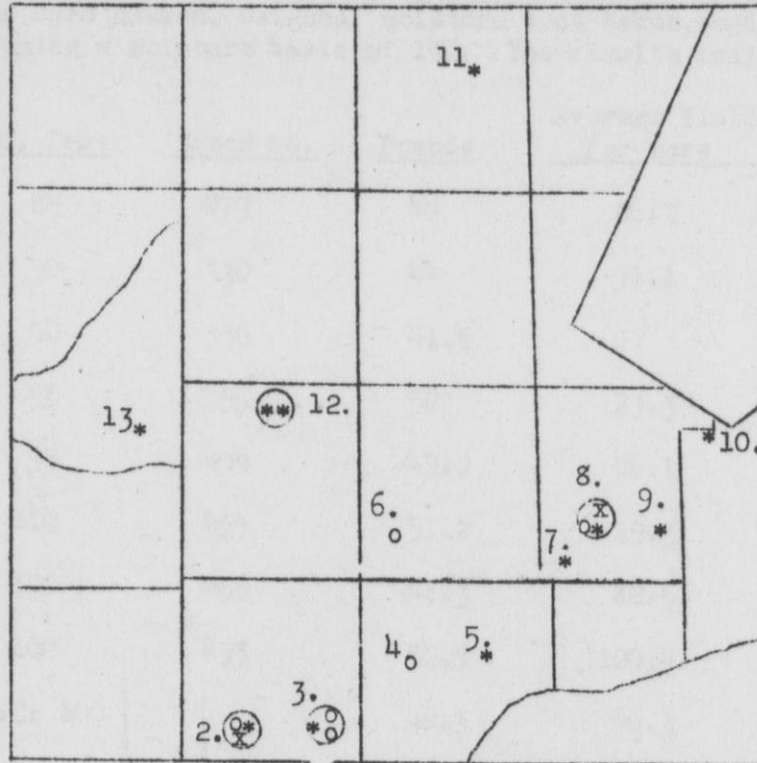
(1) Pods all ripe - 10; Part of pods ripe - 9; Pods filled but none turning - 8; Pods full size but seed small - 7; Pods many sizes but some large - 6; No pods full size - 5; Maturity below - 4 down to 1.

(2) Mostly standing A. Part standing B, None standing C

GRAIN INSPECTION

The following map shows the location of farmers having field inspection of grains made by the county agent. These inspections are made after the grain is headed out. After threshed samples are sent to Madison and if they meet certain requirements the grain can be offered for sale as certified seed.

Location of Field Inspection



1. x

(*) - Barley Field

(x) - Wheat Field

(o) - Oat Field

- | | |
|-----------------------------------|----------------------------------|
| 1. Rudolph Schaefer, R.1 Appleton | 8. Wm. Krueger, R.2 Kaukauna |
| 2. Victor Leppla, R.1 Appleton | 9. Emil Krueger, R.2 Kaukauna |
| 3. Wickesberg Bros., R.1 Appleton | 10. Herman Krueger, R.2 Kaukauna |
| 4. Art Schwalbach, R.1 Appleton | 11. Emil Mueller, R.2 Seymour |
| 5. John Paltzer, R.3 Appleton | 12. Manning Nelson, R.2 Shiocton |
| 6. Carl Beyer, R.2 Appleton | 13. Milo Komp, Hortonville |
| 7. Oliver Gehring, R.4 Appleton | |

HYBRID SEED CORN PRODUCERS

Several farmers in Outagamie county are now producing hybrid corn for seed purposes. Several have built modern dryers and installed the most up to date grading equipment. This past season Emil Mueller, town of Cicero, one of the large growers in the county, ran a variety plot of 16 different kinds, side by side, four rows of each. This fall at harvest time he requested the county agent to help check the yields and then invited the public to visit the field and note the difference in the varieties. The yield was checked by taking the first 25 hills of a variety containing three stalks. These were husked, weighed, moisture test taken, and yields per acre figured using a moisture basis of 14%. The results follow:

<u>Number</u>	<u>No. Days</u>	<u>Stock No.</u>	<u>Pounds</u>	<u>Average Yield Per Acre</u>	<u>Lodging</u>
1	85	279	40	86.2	19.4%
2	90	330	44	91.1	9.0%
3	90	335	41.5	87	11.7%
4	95	355	50	93.3	7.0%
5	95	404	49.2	96.1	6.7%
6	100	455	51.2	99.3	7.1%
7	100	456	48.3	82.5	6.0%
8	100	453	50.8	100.4	5.0%
9	K.C. 100		48.5	96.3	18.6%
10	105	525	52.4	95.4	3.6%
11	105	531	47.6	92.6	3.5%
12	110	570	52.6	104.9	4.7%
13	110	606	56.8	101.7	2.0%
14	95	415	45.6	90.4	4.3%
15	105	526	49.4	98.8	2.0%
16	100	460	46.2	92.8	8.2%

CABBAGE TRIAL PLOT

This past season cabbage seed was obtained directly from stores and kraut factories in our county to put in the cabbage trial plot. This was done in order to get a check on the seed being planted by our farmers. No cabbage yellows appeared on any of the varieties bred for resistance to the disease. A field meeting was held at the plot so that interested farmers could see and check the various varieties themselves. Various diseases of cabbage were discussed by R. E. Vaughan, plant pathologist from the College of Agriculture, and seed treatment for Black Rot control by using corrosive sublimate was explained. The plot was dusted once with insecticide for worm and lice control and showed very little damage as compared with near-by cabbage that had not been dusted.

SURPLUS MARKETING ADMINISTRATION PURCHASE OF CABBAGE

This year with an 11% increase in acreage of cabbage in the state of Wisconsin there has been a 70% increase in yield. This fact caused considerable difficulty for our farmers in the cabbage growing districts of the county in the marketing of their crop. The first difficulty arose when the kraut factories cut the price of non-contract cabbage to \$1.50 to \$3.00 per ton. This resulted in a farmers meeting at which a committee was elected that was able to get the kraut factories to restore the price to \$4.00 per ton for No. 1 cabbage. The county agent and committee then made a check with the factories as to how many tons of cabbage they could can and a check with the farmers as to the number of tons of non-contract cabbage on the farms. This showed a tremendous surplus for which there was no market available. I then wired the Secretary of Agriculture as to the situation and made arrangements for a meeting with other county agents in cabbage growing counties of the state at the office of Warren W. Clark, Director of Extension. The entire cabbage market situation in Wisconsin was then transmitted to the federal government and in a few days the Surplus Marketing Administration had offices set up in the post office building at Appleton to buy surplus cabbage.

To date 220 cars have been purchased and loaded in Outagamie county which means a financial return of about \$25,000 to our farmers.

MISCELLANEOUS

ORCHARDS

Last winter two fruit schools were held, one at Dale and one at Hortonville. Each consisted of a series of four meetings with the aid of Conrad Kushner, fruit specialist from the College of Agriculture. A pruning demonstration was given in each community and this was followed by an orchard tour this fall where farmers could see results obtained by following practices advocated at the fruit schools.

AGRICULTURAL ENGINEERING

Building problems have been discussed with many farmers and blue prints furnished through the office of Max LaRock, architectural Engineer from the College of Agriculture. Advice has been given in the construction of poultry houses, hog houses, cooling tanks, milk houses, silos, and barns. Many farmers requested information for repairing concrete silos and methods of testing gravel for concrete work.

WEED CONTROL

Two demonstrations for killing mustard in grain by spraying with Sinox were given. The results were very good--the Sinox killed over 95% of the mustard and did very little damage to the grain.

Six demonstrations were given this fall with the aid of George Briggs, agronomist from the University, as to how to apply sodium chlorate to kill Creeping Jenny or field bindweed. An average of about 35 farmers turned out for each demonstration. Of the \$400.00 appropriated by the county board at the August meeting to help pay one-half the cost of sodium chlorate up to 100 pounds for any one farmer, only about \$200 has been used because of the difficulty in obtaining the chlorate. It is used for war purposes and dealers have been unable to supply the demand. Elimination of the small patches of field bindweed now will save the farmers of the county a tremendous amount of labor and expense in the future.

EUROPEAN CORN BORER

Last summer the European Corn Borer was found in every township of Outagamie county and this year it was still more prevalent but did not do any amount of noticeable damage. This pest is one to watch--it may cause future trouble.

GRASSHOPPER CONTROL

Very little damage was caused by grasshoppers and it was not necessary to set up either a county or any township mixing stations. Agent did give out a small quantity of poison to a few individuals supervising the mixing himself.

ARMY WORMS

Army worms did some damage at grain cutting time and quite a number of farmers asked for control measures. The town of Freedom was hit the hardest and the town board set up a mixing station at the Village of Freedom. Fortunately parasites attacked the worms and only 500 pounds of poison bait were spread by farmers.

FARM TO MARKET

The county agent again served as secretary to the Farm to Market Committee which lets the contracts for the crushing of farm to market stone. This past year 35,000 cubic yards of lime rock were crushed in the following quarries:

Black Creek Limestone Co.	14,000 yards
Math Van Hoof.	12,000 "
Kenneth Hodgins	5,000 "
Driesow	4,000 "

Each township and municipality in the county received 200 yards, the city of Appleton 500 yards, and the balance was allotted for county trunk highways. The average cost for stone and crushing was approximately 65¢ per cubic yard.

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Besides all the items in this report the county agent has been consulted on many other topics such as---preparation, fertilization, and upkeep of lawns; vegetable and flower gardens; plumbing; moth damage; cockroach infestation; frigid lockers; blasting rocks and stumps; legal matters; purchase of seeds, sires, horses, and machinery; land drainage; treatment of seeds; electrification; rations for cattle, sheep, hogs, horses, rabbits, and poultry; rodent control; disease control; and many others.

Some statistics which must be kept by my office are listed below:

Number of Meetings Held.	294
Attendance at these Meetings	26,301
Number of Farm Visits Made	1,219
Number of Circular Letters Written	119
Number Receiving Circular Letters.	47,877
Number of Personal Letters Written	2,825
Telephone Calls Received.	2,804
Farmers called Personally	2,333

Again I wish to express my appreciation for the whole-hearted cooperation received from the county board members, the farmers, and business men of the county.

Respectfully Submitted,

J. F. Magnus
 J. F. MAGNUS
 County Agricultural Agent
 Outagamie County