Report of

# Polk County Farm Program Conference

Held at DALLAS, OREGON JANUARY 30 1946

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## CONFERENCE COMMITTEES

Committees That Prepared Project Reports Are as Follows:

## FARM LABOR COMMITTEE

Frank Kennedy, Independence Claude Larkin, Rickreall Claude Hoisington, Dallas E. B. Hamilton, Dallas

# VETERANS ADVISORY COMMITTEE

Morris Christensen, McCoy Joe Harland, Rickreall Glenn Hogg, Rt. 4, Salem John Larkin, Rickreall Claude Hoisington, Dallas W. Frank Crawford, Rt. 1, Salem Jack DeJong, Sheridan Chas. Evans, Independence

#### POULTRY COMMITTEE

Marvin May, Rt. 1, Dallas Arthur Christensen, McCoy R. L. Walker, Amity Emil Stevens, Rickreall

## FARM HOME AND RURAL LIFE COMMITTEE

Mrs. Ross Simpson, Dallas
Mrs. Chas. Bowman, Independence
Mrs. Ira Ray, Monmouth
Mrs. Geo. Van Santen, Rickreall
Mrs. Joe Rogers Jr., Independence
Mrs. Harry Walker, Rickreall
Mrs. Robt. Mitchell, Amity
Mrs. Hugh Van Loan, Monmouth
Mrs. G. L. Russell, Monmouth
Mrs. Vern McGowan, Independence
Mrs. Ira Mix, Independence
Mrs. Wm. Knower, Rt. 4, Salem
Mrs. Wes Elliott, Dallas
Mrs. Ross Chapin, Perrydale
Mrs. Wm. Thurston, Independence
Mrs. S. Van Staavern, Perrydale
Mrs. Grove Peterson, Independence
Mrs. R. I. VanDenBosch, Dallas
Mrs. J. B. Emerson, Sheridan
Mrs. Paul Wishart, Rt. 1, Salem

#### HORTICULTURE COMMITTEE

Herman Endres, Sheridan Perry Wells, Independence Dean Walker, Independence Jim Carver, Dallas Bert Stiles, Dallas

#### DAIRY COMMITTEE

B. C. Bell, Rickreall
J. A. Campbell, Amity
Jack DeJong, Sheridan
M. B. Findley, Rickreall
Ray Hobson, Amity
N. C. Anderson, Independence
W. B. Allen, Rickreall
Mervin Werth, Willamina

#### LIVESTOCK COMMITTEE

Ronald Hogg, Rt. 4, Salem Glen Martin, McCoy Frank Farmer, Rickreall Eldon Riddell, Independence Wiley Gardner, Dallas

#### LAND USE COMMITTEE

Claude Hoisington, Dallas
Robert Mitchell, Amity
L. H. McBee, Dallas
T. J. Werth, Willamina
W. Frank Crawford, Rt. 1, Salem
Walter Werth, Willamina
Fred Gibson, Salem
Oscar Smith, Dallas
Ammon Grice, Rt. 4, Salem
J. B. Lorence, Monmouth
J. W. Graber, Independence
Raleigh Carothers, Salem
Joe Harland, Rickreall

#### FARM CROPS COMMITTEE

Chas. Evans, Independence Chas. Bowman, Independence Clarence Primus, Independence Justin Rowland, Rickreall Harold Elkins, Monmouth Robert Farmer, Dallas Virgil Heider, Sheridan Forrest Pence, Rickreall Leo Buyserie, Rickreall

## **FOREWORD**

Following the recommendations of the Polk County Agricultural Planning Committee meeting of over one year ago, a representative group of farm people was invited to a meeting on November 7, 1945. This meeting was held primarily to decide if sufficient changes in agriculture and agricultural problems in the county had taken place, and if at the close of the war there were some post-war problems pending that would justify another county agricultural conference.

After reviewing the situation carefully and deciding that there was a large number of very important matters to study and to make recommendations on, the group unanimously agreed that a Polk County Farm Program Conference should be held, and the date was set for January 30, 1946.

Nine conference committees were appointed and each one met at least two times, and some as many as four, studying the problems assigned to them. Members of the Oregon State College Extension Service cooperated in securing data and other information.

Over 300 people attended the conference on January 30 and some very important recommendations were made, so much so that it was deemed necessary to publish them and make them available for more or less general distribution.

If the report of this conference can have as far reaching effect as that produced from the economic conferences of 1928, 1936, and 1937, certainly this conference will have been very necessary.

Special commendation should be given the various chairmen and members of the various committees, and to Mr. Claude Larkin, general chairman of the conference, for the many hours spent in deliberating over the agricultural problems of the county.

This publication should not be construed as a guide for an indefinite period in fashioning the agriculture of the county. Farmers of the county should be ever mindful of the fact that agriculture, as such, is changing very rapidly, and whenever a new practice or a new phase is discovered it should be accepted, and when changes in recommendations are necessary, appropriate committees should make them.

W. C. LETH, County Agent, Conference Secretary.



# Horticulture Committee

ious problems involving various crops imately 1700 acres. included in the horticultural field and the problems anticipated. A brief presentation relative to the recommendations for each important crop is as follows:

#### HOPS

In view of the apparent over-production of hops at this time, the committee definitely recommends against any further plantings. Because sections in Washington and California are producing much higher yields than certain sections in Oregon, it is recommended that as hops develop into a surplus commodity that the acreage of hops be confined to those areas able to compete with these other districts by producing higher yields. The average yield in Polk County is 1000 lbs per acre, which is higher than the Oregon average, but which is considerably below the avduced in Washington.

supported and promoted to the best dried prunes. interests of the county as a whole. \* \* \*

## APPLES

should be limited to the present com- mittee, however, is of the opinion mercial growers who follow a suf- that these should be planted only on ficient spray program and produce such areas that are suitable, with a quality pack. The 550 acres of com-sufficient soil depth and drainage. mercial apples is more than the normal market can consume.

#### CHERRIES

No additional acreage is recommended at this time, however it is imperative that the cherry fruit fly menace be recognized and suitable control measures adopted by growers and others having any cherry trees. The committee strongly endorses and recommends the formation of a cher ry fruit fly control district including Yamhill, Marion, Polk and Linn Counties, and a strong educational program that will acquaint not only

The committee has discussed var- this county which comprises approx-

## **PEACHES**

The peach industry of the Willamette Valley is facing considerable danger in the discovery of the presence of the Oriental fruit moth in this state. Because of the distance from other markets, the peach acreage should not be expanded further except as local markets justify.

## **PRUNES**

Polk county has slipped from first place in Oregon in prune production to second or third place, largely due to the fact that many orchards on shallow hill soils have become uneconomical and because many other orchards have not had proper care during the periods of low prices.

It is believed that present acreage erage of approximately 1700 lbs. pro- of prunes can be maintained, as the market seems adequate to support As most of the hop producing area such an acreage. The market de-in the county is in the Willamette mand for canned prunes continues to River section and is affected when the increase, and emphasis should be Willamette River is in flood stage, it placed by growers on quality imis recommended that the Willamette provement, in order to continue this Valley project for flood control be market as well as the market for

The committee recommends that prunes be planted in the county in about the same rate as old non-bear-The apple acreage in the county ing orchards are removed. The com-

### **FILBERTS**

The comimttee recommends that no further plantings of filberts be made in view of the foreign market competition in prospect. According to the best information available, only about 60% of the filbert plantings in the state are full bearing, which would mean a much increased production as the newer plantings come into bearing.

## WALNUTS

Walnut planting has reached a commercial growers, but also owners point, more or less of stability and of individual trees of the necessity the committee believes that there is for proper cherry fruit fly control little reason to justify additional walin the interests of the industry in nut acreage.

#### SMALL FRUITS

Polk County has considerable area adapted to small fruit production, early and as much early This area can be devoted to such growth obtained as possible. production as rapidly as canneries require additional to rage. Growers erosion problem areas, should not be should hesitate to make any plant-loosened in the fall without again repacking and sowing to cover crop. Cultivation should last be done across ance that their products can be mar- slopes or water current directions. ketetd. There seems to be justificastrawberry production, as the acre- time of seeding as a means of seage is extremely low in the county curing more efficiency from them at this time. Because of the extreme all, rather than applying them in the need for high quality and certified spring. This does not mean that adplanting stock more growers in the ditional nitrogen types of fertilizer county in disease free areas might should not be added in the spring as an added source of income.

Because of the development of that they find efficient.
many new varieties, growers should
make inquiry as to those most ac
BEES ceptable by exisiting markets, and plant accordingly. Growers should nized as very valuable in pollination be encouraged, however, to try new of various horticultural crops, grow-varieties as they appear, in order to ers should make every attempt to

them.

## TRUCK CROPS

In the river bottom area and adjacent to Salem there is considerable acreage that can be devoted to the production of truck crops. These, orchards that have become crowded however, should be planted and in- due to the trees' growth be thinned creased only as contracts can be by actually pulling out a certain proavailable from canneries and others portion of the trees in such orchards. interested in such production.

the acreage of string beans in the tively short time orchards respond Willamette Valley ara to the extent to thinning to the extent that in this county securing adeeven half the number of trees the quate labor has been an increasing production is actually increased. Conproblem. Growers should not exsiderable labor is saved in reducing pand bean acreages and new growthen number of trees, both in pruning

tioned above, as follows:

#### SOIL IMPROVEMENT

horticultural commodities, and the ing distances are determined. Too committee has the following definite many orchards, as they attain age, recommendations to make:

er crops should be used.

(b) Cover crops should be sown

(c) Soil, especially in flood or

(d) Proper types of tion for a considerable increase in should be applied to cover crops at the consider strawberry plant production as an added source of income. where useful. More fruit growers as an added source of income.

Because bees generally are recogkeep abreast of demands for such prevent loss through poisoning by and be in a position to capitalize on sprays or dusts and cooperate to the greatest possible degree with bee keepers in the interests of bee protection.

## TREE THINNING

The committee recommends that terested in such production.

Data on orchards where thinning has
There has been a great increase in been done indicates that in a relaers should not attempt production, and in orchard cultivation. Tree unless they can locate a suitable thinning should be done only after supply of harvest labor. supply of harvest labor.

There are several matters which the committee believes could apply quite generally to all the crops menagent's office.

growers secure the best possible advice, either from experienced growths agent's office.

#### NEW PLANTINGS

New plantings, particularly of tree Soil improvement practices can fruits, should be made on areas assist greatly in increasing production and improve the quality in most and drainage and where proper plantbecome unprofitable much too soon, (a) Heavier rates of seeding cov- particularly because these factors

were not fully considered when the orchard was planted. Considerable attention should be given to a soil fertility program that will maintain high production. Many orchards have Great care should be exercised in securing varieties most desirable and planting stock free from diseases.

#### FERTILIZER

arranged by the county agent to pre- produced as the best means of safe sent such information to growers. It guarding future markets. is believed that fertilizers can be used more effectively and profitably if through proper control of insects, growers have a better understanding diseases and sanitation (particularly of them.

#### PRICE CONTROL

Until prices of farm commodities and consumption level off, the committee believes that a price control program should be encouraged that been allowed to become depleted in will prevent excessive inflation and soil fertility, hence are inefficient. consequent over-production. consequent over-production.

## QUALITY

In the post-war period, and especially with the development of sur-Because the average farmer will pluses, quality is probably going to be purchasing more and more com- be one of the very, and possibly the mercial types of fertilizer and be-most important, factors involved in cause most farmers do not have suf- marketing farm products. The comficient information or understanding mittee recommends that every effort of the value and proper use of them. he made by producers and processors it is recommended that meetings be to increase the quality of products

Quality can be

in prune dryers.)

#### JOINT REPORT OF

# Veterans Advisory Committee Land Use Committee

becoming

farm families and can more farming units be established in the county?

2. What are the opportunities for ty for that many farm families. part-time farming?

farm unit?

program for a newcomer to this county?

5. What sizes should the predominating types of farming units be in of living for an average family?

average farm family require at this other

dations relative to each of the above unit if they actually wish to farm.

will be some retirement of present of all of the necessary food supply

Before considering the problems of farm operators following the war, a established in large part of the new farm units that farming in this county, the joint com- will be available in this county will mittees considered the following quest come from the release of approximately 45,000 acres of Camp Adair 1. Can Polk county support more for farm purposes. It is estimated that there will be approximately 250 new farm units available in the coun-

2. Part-Time Farms. Except pos-3. What constitutes an economical sibly for the Salem area the committees actually believe that it is best 4. What is a sound farm financing to discourage part-time farming operations. The fact that such units hardly ever have sufficient equipment to do a satisfactory job and insufficient area to make a complete famorder to provide an average standard ily living makes them undesirable except where the family has a sure and 6. How much net income does an steady form of income from some occupation or employment. Those with temporary employment The following is a summary of the should give consideration to becoming committee's findings and recommen- established on a full-time farming

Any part-time farming unit should 1. Additional Farms. While there completely provide for the production

cows, 25 to 50 hens, one to three also retire the farming debt in a hogs, and sufficient area for an ade- reasonable period? quate garden. It would also be desirother enterprises in addition but not for the farming types indicated behave additional land requiring culti- low which predominate in this area:

opinion of the committee an econ- 80 acres of good soil, all under culomic farm unit must meet the fol-tivation. Livestock, dairy and poultlowing requirements:

in productive farm work.

(b) Provide adequate income for a

reasonable standard of living.

chinery.

initely planned rotation of crops.

4. Farm Financing For Newcom- planting and harvesting. It is recommended that newnot similar rent or work for an estab- maintain a dairy herd of from 20 to lished farmer for at least one year 25 cows. Part of this acreage will before purchasing a farm. Owing be devoted to hay and grain and the to the varying soil conditions it is balance to pasture. Irrigated pasture recommended that newcomers do will reduce the number of required considerable investigation and inquir- acres. marketing Committee relative to the productive of the farm is required to produce capacity and suitability of a prospective farm for the type of farming contemplated. Veterans should con-Because of crop hazards and the unsuitable of the farm of the type of farming contemplated. mittee.

normal and reasonable appraisal bas unit. is at the time of purchase.

termine if it meets the requirements fruits. of an economic unit as set forth

for the family, including one or two an average standard of living and

The committee advisedly sets up able to have some fruit and perhans the following minimum requirements

(a) Diversified farming unit. This 3. An Economic Farm Unit. In the type of farm requires a minimum of ry enterprises along with the produc-(a) Provide for a year-round labor tion of grain, hay, pasture and small program with full-time employment seed crops fit into the diversified farming unit.

(b) Grain, hay and field seed farming unit. The minimum requirements (c) Provide a balance and variety of this type of farm should be 160 of crops permitting full use of ma- acres of cultivated land. Less than this acreage cannot be operated en-(d) Sufficient cropland with a def- onomically because of the necessary outlay for power and machinery for

(c) Dairy farm. A minimum of comers to Polk county from areas 80 acres of cropland is necessary to The usual carrying capacity ing prior to purchasing a farm. They for irrigated Ladino clover pasture should consult with the County Agri- is 21/2 cows per acre. Some farmers cultural Agent, successful established may wish to start out with 10 to 12 organizations, cows planning to build up a dairy and financing agencies, and returning herd of from 20 to 25 cows, using a veterans should particularly contact portion of the land for cash crops

tact the County Agent as secretary certainty of a crop each year, the of the Agricultural Advisory Com- committee believes that this type of farming should be conducted as part In orer that newcomers may run of a diversified farm program unless as little risk as possible the commit- the operator has sufficient capital tees recommend that a prospective to maintain the operation during the farm purchaser have sufficient cap-non-productive years. It is believed ital to purchase the necessary stock that this type of farming should be and equipment and have sufficient conducted in units of approximately cash remaining for the first one five acres for each type of tree fruits year's operating expenses. Also he and that if fruit raising is to be the should have at least 50% of the pur-entire enterprise that there be at chase price of the farm, based on a least 20 acres in the entire farming

Small fruit and berries are usually Purchasers should analyze the pro more dependable from the standpoint ductive capacity of a farm and de- of a crop each year than the tree

It is extremely important that no In other words, does it pro- fruit enterprise be established until vide sufficient net income to furnish it is determined that the soil is ade-

tremely deep soils.

(e) Truck farm. belives that in this county there is lying range be available in addition not now sufficient market for the to sufficient land to produce the necdevelopment of many truck farms. essary feed supply for the livestock No one should enter into a truck maintained. farming operation until he is assured of a satisfactory market for his pro-commends that a veteran or newcomduce. A truck farm calls for at least er estimate the total amount of cap-15 acres of the very best soil, usually ital he can make available and from river bottom, that can be irrigated such information the committee can Truck crops should be grown only be of greater assistance in advising under contract.

A minimum of 10 acres and 1000 laying hens is considered advisable. prospective farm purchasers the fol-Acreage must be provided for range lowing list of bulletins are recomand the production of green feed, mended for study. These contain but all grains must be purchased. It more valuable suggestions and ideas is abvisable that a poultryman plan that may save considerable difficulty to increase eventually such an opera- and dissatisfaction in the future. tion to 2000 or 2500 laying hens. It ner attempt more than 1000 hens to Western Oregon. start with.

(g) Turkey production. The tur- Getting Started in Farming. key enterprise is a good one to comparticularly true for the inexperienc- and women in our armed forces who ed operator. The committee believes are thinking of engaging in farming. that only the most experienced operator should have turkeys as the sole questions pertaining to the availenterprise. One experienced man can ability of electricity, telephone ser-

have been recommended because con- ers found in these bulletins. ditions would vary greatly depending upon locations. can be made available to veterans in County Agent.

quate for it. Orchards require ex- this connection after they have found possible locations that they are in-The committee terested in. It is important that out-

As a suggestion the committee reto what extent he could engage in (f) Poultry unit for egg production any of the above types of farming.

For the interest and assistance of

Oregon State College Extension is important, however, that no begin- Bulletin No. 635: Buying a Farm in

USDA Farmers Bulletin No. 1961:

USDA Circular: Shall I Be a Farmbine with other enterprises. This is er, written especially for the men

care for a flock of 5000 market birds. vice, good roads, distance to market, (h) Stock ranch. No requirements school and churches and many oth-

> Copies of all of these publications Special assistance are available at the office of the

# Land Use Committee

The most important single land to further safeguard purchasers. Prouse problem in Polk county is that vision should also be made to comtions to make relative to that area: use or from explosives.

(1) The area should be disposed of strument should have clearly written difficult to follow. on it that the area has been used farm purchaser or operator, in order sales agreement providing for rights

pertaining to Camp Adair and the pensate for injury or death from accommittee has several recommends cidents resulting from government

(2) Land descriptions should be for farming immediately, but not based on township and section lines, until made as safe as possible for instead of on the old donation land farming operations. Every sales in-claim descriptions which are most

(3) The government should profor military purposes, and is possibly vide for the relocation of roads and hazardous for farming operations, construction of new ones to better The government should provide de-serve the area in accordance with tection equipment and men to oper-the plan developed by the county ate it under the supervision of each court, and include a clause in the

of way for the county for such roads many years to come. Any practice that would make unnecessary further that will prevent this would be not negotiating or condemnation by the only of of value to each farm, but county court with the new owners to the area and to the county as well. for such road construction. Such a For other sections of the county plan should be included in appraisals various problems have been considermade of farms, in order that the value of any damage done by such roads lowing recommendations to make: might be considered in appraisals.

over the area and having imposed a distinct burden on the taxpayers of this county, should reimburse the county for the tax loss for the period in government ownership.

(5) The committee believes that

proper.

(6) In order to prevent speculation as well as costs. in the area, the committee recommends that any farm shall not be more individual farms and communsold for a period of less than five ity drainage projects be undertaken. years without due cause, unless the Tile drainage alone on farms is one difference in cost and sale price is of the most economical means where made payable to the government, Grainage is a problem, and it is po-and it is recommended that any such lieved that ditches as well as tile payment be made use of in this area systems can be established on a comby the government.

lieves that the area should remain in county. economical farm family units, and not be sold in tracts smaller. In many instances it will be advisable to com-

too small.

(8) Apprasials should definitely consider the increased weed damage farms during the government own- mittee definitely believes that such ership as being harmful to such ar- crops as alta fescue, subterranean clo-

a way that farms sold be immediate- to total over one-half million doily placed on the county tax rolls and lars per year, which would probably

ernment contract.

(10) The committee recommends ty at the present time. definite recommendations be provided through the Land Use Com- area estimated at approximately 30,mittee, County Agent's office, Ex- 000 acres or more of cut-over and periment Station and other sources logged-off land in the county that for the best means of starting farm- is suitable for grazing purposes, the ing operations with the ideas in mind committee recommends that grass of destroying the weeds and for get-seed trials be established on such ting the soil into the best possible areas for the purpose of determining stage of tilth as soon as possible their value for beef cattle grazing Deep plowing on much of the area and the development of the area for should be avoided, as this practice grazing as such trials indicate are would turn under accumulated weed practical. seeds that would be brought up for The con-

For other sections of the county ed, and the committee has the fol-

ight be considered in appraisals. A comprehensive water storage (4) The government, having taken survey of streams in the county er the area and having imposed a should be made by federal engineers to make available definite information with which further plans for irrigation water supplies could be made.

There are several problem drainthe plan to give priority in the pur- age areas in the county, and it is chase of Camp Adair land first to requested that the same agencies be former owners and operators, second asked to supply drainage surveys for to veterans and third to others, is such areas, giving information on the best possible means of drainage

The committee recommends that munity basis that would greatly in-(7) The committee strongly be-crease values and production in the

Because the county now has over 100,000 acres of hill land that is producing very little revenue, owners or bine units where formerly they were operators of such areas should consider planting some of the newer forage plants on such areas, in order to increase individual farm as well as and other physical damage done to county agricultural income. The comver and others could increase the in-(9) Sales should be made in such come from this area in a short time not be sold subject to tax-free gcv- be the largest single source of increased revenue available to the coun-

In view of the fact that there is an

The committee believes that many

of timber that has not been given fice of the state forester and from full consideration from the stand- the extension forester, Oregon State point of its market value to such college, on present markets for farm farms. Information coming to the timber and such assistance can be attention of the committee is that in secured on request through the counwestern Oregon farm woodlands con- ty agent's office. tain somewhere between 25,000 and 50,000 board feet of timber per acre. sisted in making and reviewing the In 1944 over two and a half million recommendations of the veterans' ad-Oregon where there are almost two erans and others planning on locat-million acres of farm woodlands. In-ing in this county.

farms have a considerable quantity formation is available from the of-

The land use committee has asdollars worth of wood products were visory committee and strongly com-sold from farm woodlands in western mends these recommendations to vet-

# Farm Home and Rural Life Committee

living. Now families are again fac- ing purposes. ing new problems and changing situations in our post-war period.

Our ultimate goal for successful and happy living on a farm depends on a good home. Because of this ult-imate desire to have a good home, one which produces more than a mere subsistence, a general survey was taken to check living conditions of rural farm homes and rural non-farm homes. The survey showed that few new homes have been built and few homes have been remodeled during the past four years due to the fact that materials have not been availhomes and in further remodeling, rebuilding be made available to farm pair and painting. The survey furfamilies planning to build or remodel ther showed that 62.7% of rural dwellings.

3. Recommend that interest be cases show it is inadequate or imment of homes by more walks, drive-properly used. Regardless of the ways and parking areas. fact that rural electrification in Polk
County is in an advanced position, planned and carried out for the improblem still exists how unserved provement of better tenant houses

Farm homes and farm families are farms in the county can obtain elnow entering upon a new era in fam- ectric service. A large number of ily living. During the past four homes in the county reported no type farm families have been geared to of refrigeration for homes to prevent wartime situations. The greatest food spoilage and waste and also problems for farmers and homemak- the major number of families use ers have been those of production wood as a cooking fuel. This would and conservation. It required rapid indicate that the electrification of and many times complete changes in rural farms and rural non-farms has family living from prewar to wartinge been principally for power and light-

> From the summary of existing conditions in Polk county at the present time, the committee wishes to make the following recommendations

- for long time housing program:

  1. That meetings be held throughout the county on better lighting, heating of farm houses and correct installation and insulation of wiring for electricity. This information given on installation and insulation would be applied largely to putting in new pieces of equipment such as home freezer lockers, stoves, refrigerators.
- 2. That more information on types able for this. However, there is need of building materials for remodelfor improvement in replacement of ing homes and cooperative costs of
- homes in Polk county have electric stimulated through 4-H club projects. lighting. There are still a few sec-contests and meetings of county orlighting. There are still a few sec- contests and meetings of country of-tions of the country, however, where ganizations to sponsor beautification electricity has not been available to of farm homes and buildings. This farm homes. In the per cent already is to be done through planting of supplied with electric lighting, many native shrubs and flowers, improve-

comfortable.

5. Since a great percentage of acthat meetings be conducted on safe- a year in all organizations in order ty practices for the farm and home, to help lead and sponsor youth This could also be made a project groups. for the 4-H club.

cause of the increase in all kinds of eral communities can cooperate in mechanical equipment within the combining recreational programs. past few years, farm families be 5. Recommend that a program be given help and information on the worked out between the 4-H club

ment.

#### SANITATION

From the survey, it seems that in the dwelling unit. However, there tions. is still need for improvement in present problem during some seas- terest in community church affairs. ons of the year of floods. This sitof such projects as the Willamette idation with other rural schools. Valley project and what they can contribute to improved family liv- given young ing in Polk county. Therefore the couples to form a club for farm and such plans or projects be carried out the age groups of less than 35. for taking care of sanitation and FOODS AND NUTRITIONS water supply in areas where flood One of the first necessitie situations exist and occur. This will help to solve the need for better sanitation.

munity activities have of necessity and regular use of certain foods in been directed toward certain goals. daily meals. The rural families of These activities have been to aid in Polk county are fortunate in being the war effort. Due to lack of trans-portation and distances from com-munity centers, many families have The committee makes the following munity centers, many families have not been able to participate in com- recommendations: munity affairs. However, with the coming of peacetime, this is no instruction in adequate longer true. Therefore the commit-family members be carried out. tee wishes to make the following recommendations:

sor community programs where the variation between preserved whole family can take part.

develop their own local talent, par-made available to parents in rural ticularly with the younger people communities of the necessity and

which are durable, convenient and and young adults participating and leading the groups.

3. Recommend that leadership cidents occur in the home and on training meetings for adults of one the farm, the committee recommends or two days in length be held twice

4. Recommend that programs be 6. It is recommended that, be- planned and carried out where sev-

selection, use and care of such equip- and Future Farmers so there is closer cooperation and carry-over between the two programs.
6. Recommend that projects

the water supply has been improved home and comunity recreation be in Polk county with the greater num- carried on through regular training ber of rural families having water meetings for leaders of all organiza-

7. Recommend that people be urged sanitation facilities. In one section of to regularly attend the church of the county there exists the ever-their choice and take an active in-

8. Since the school is the center uation, when it occurs, creates prob- of rural community life, the committems in sanitation, water supply and tee recommends improvement of health. We recognize the importance small rural schools through consol-

9. Recommend that opportunity be farmers committee wishes to recommend that home improvement and confined to

One of the first necessities of the home is an adequate food supply. The food supply should be adequate not only in amount but in content. FAMILY AND COMMUNITY LIFE The maintenance of the family health During the past few years, com- depends upon the right proportions

1. Recommend that a program of diets

2. That more information and help on planning and planting winter gar-1. Recommend that organizations dens be given to families and that such as churches, farmers unions, families be urged to plant winter Granges, comunity clubs, etc., spon- gardens to give the family better fresh foods throughout the year.

2. Recommend that organizations 3. Recommend that information be

benefit to the school child of the ings, information be made available hot lunch program.

4. Recommend that local commun- and buying of ready-mades. ities and organizations sponsor and 4-H CLUB

support the hot lunch program. 5. Due to the increase in new kitchen equipment, large and small, it is recommended that more information about recommended practices for preparing ond preserving foods be made available to home

makers.

6. Surveys show that Polk county farms furnish a home grown living to the farm family of \$175.03 per farm each year which amounts to 57.7 per cent of the living costs (food and fuel) that the family has. This seems a real saving and a desirable practice to continue therefore we recommend:

a. That families be urged to produce their own supply of milk, eggs,

meat and garden products.

b. That home food preservation be done by improved practices in freezing, canning and drying of food.

c. That families be encouraged to plan a food budget to guide them in the amount of food to be grown and preserved.

#### HEALTH

The health program was organized in Polk county in 1935. Progress has been made in the immunization and tuberculosis control program in the county. However, there is further need for a continuation of the Therefore the committee program. wishes to recommend that support of this program be continued.

During the past four years, homemakers of necessity have been limited as to kinds of textiles available for home construction of garments. part of their program, securing lead-In view of the fact that many de- ers for 4-H clubs. velopments have taken place in the field of textiles and that these new textiles, which may be combinations of different fibers or synthetic fibers, will be made available to home-makers, the committee makes the following recommendations:

content and labeling.

2. More help be given to homemakers in the construction of garthat have common appeal to boys ments through better dress and coat and girls such as fairs, camps, sum-

to homemakers about the selection

The name of 4-H club is universally recognized. The operating unit of 4-H club work is the local club. On it depends a large part of the success or failure of the 4-H club program. The size of the clubs has a great range. Many groups of young people interested in forming or belonging to a 4-H club need adult leadership and local sponsorship. Some clubs are seasonal and shortlived and parents are often indiffer-ent or uninformed. To prepare youth for their place in a more perfect America is a job of education. To serve rural America particularly—but looking to all youth eventually is the double responsibility of 4-H club work. Therefore the committee makes the following recommendations:

1. That there be one or more wellorganized 4-H clubs in every com-

munity.

2. That every boy and girl 9 to 21 years of age be given the opportunity to become a 4-H club member.

3. That steps be taken to acquaint people in the community with the values and methods of 4-H club or-

ganization.

4. That leadership training meetings be held to give adult volunteer leaders training in understanding the aims and purposes of 4-H club work, their duties as a 4-H club leader, 4-H methods of teaching and subject matter for information.

5. That home extension units and other cooperating community and county organizations incorporate as

6. That leadership training be developed within the 4-H club itself.

7. That more emphasis be given to such projects as home beautification, farm crops and gardening, and new projects be developed and llowing recommendations:

existing projects revised from time
to time to challenge the interest of formation about new textiles as to boys and girls and so attract and their care, suitability, use, cleaning, hold increased membership among

and suit workshops. mer schools, achievement days and 3. That through projects or meet-recreational facilities.

9. Recommend that better parental ents in special club functions. understanding of the 4-H club program are given by procuring parental consent and pledge of assistance public through newspaper project. Have members include par- and radio programs.

10. Recommend that the work of the 4-H program be kept before the

# **Poultry Committee**

and the present poultry situation and meat-type hatching eggs. This trend made recommendations for poultry- is expected to continue somewhat men in this county to follow for the and may even expand if the quality next few years.

PRESENT SITUATION

Statistics show that the production of poultry products in the Un- near the center of more densely popited States has increased 50% during The number of hens in Oregon and Polk County has been broiler production may increase to rather steady except for a 15 to 20% a limited extent. increase during the war years.

The Pacific coast has changed area of poultry products during the past 15 years.

The country as a whole will no doubt have to decrease poultry production from the present high level. Inasmuch as the Pacific coast is an house under present conditions. importing area, Polk County should CAUTION IN BUYING CHICKS maintain the present poultry numbers provided quality of products is purchaser should know that creased. A Polk County poultryman chicks are from flocks which will not only have to produce a qual- bred to live and lay, and flocks free ity product to stay in business but from pullorum disease. Since there he must obtain economical produc- is a correlation between the type of

SIZE OF FLOCK NEEDED

The size of flock needed depends and eggs for home consumption, poultry as a sideline business, or

poultry as the main business.

The family which wants meat and LAYING OPERATIONS eggs will find 25 birds sufficient. The farm that make poultry a side line should maintain a 500-unit size The farm that expects to make poultry its main business should to prevent disease from the mature have a unit of not less than 2000 laving hens and around 20 acres of land BROODING EQUIPMENT so a two-year range rotation may be provided.

BREED TRENDS

the most popular breed in Oregon chicks in addition to the wire sun but it has declined some in the last porch. ten years. The change has been toward New Hampshires. This change will need two square feet of floor has resulted from increased fryer space per bird if reared in confine-

This committee reviewed the past production and a larger demand for and conformation of the meat-type chicken is improved.

Broiler production has always been ulated areas and if the west coast continues to increase in population.

CAPITAL REQUIRED

The average layman believes that from an exporting to an importing it doesn't require much capital to get started in the poultry business. Figures show that, exclusive of land and the home, it requires an investment of about \$5 per bird to build and equip a brooder and a laying

In purchasing day-old chicks, the chicks are from flocks which are egg a chick comes from and the type of egg the chick will lay when matured, only large grade-A eggs should upon whether the family wants meat be used for hatching. Because of disease hazards, it is usually dangerous to buy started chicks.

SEPARATE BROODING AND

The brooding operation should be entirely separate from the laying flock with 200 or 300 feet separating them. This precaution is necessary flock reaching the young chicks.

Around 500 chicks is the maximum number that should be brooded in one REED TRENDS group with 50 square feet of floor White Leghorns have always been space being allowed for each 100

Pullets two to five months of age

ment.

# NECESSARY GENERAL

Regardless of whether pullets are on range or confined, green feed should be fed liberally throughout the growing period.

All range equipment should be portable so it can be moved in order to control diseases and to avoid killing out green feed.

From 50 to 100 per cent of the flock should be replaced each year with pullets. A laying hen decreases production 20 to 25 per cent each successive year.

Pullets should never be placed in the same house with older birds. Older birds will not give them an equal chance for feed and space. Also older birds are more likely to have diseases and readily transmit them to the pullets.

Breeding flocks should be fed a breeder's ration 2 to 4 weeks before hatching eggs are saved. The ration should contain an additional supply of vitamins in order to produce high hatchability and livability.

Eggs should be gathered three or four times a day, cooled immediately and held at a temperature of from 40 to 66 degrees with relative humidity of about 90 per cent.

TURKEYS

States during 1945 increased 43% over pre-war level. In Oregon the increase was 65%.

During the war the government purchased about 25% of the turkey crop. Now that it is not buying so 20% where an adequate supply of many turkeys, the producers must cut production or induce people to In view of the eat more turkey. present situation, it seems advisable to recommend that Polk County pro-ducers curtail production 10 to 15%. action when wall to tip forward.

It is the in-one-year and out-thenext turkey producer who greatly affects the markets. The committee is of the opinion that turkey pro- 4-H CLUB WORK duction should be continued by the experienced, equipped, long-time esthe next few years.

will have to obtain more than a five dividends in later years.

cent per pound premium on small birds to compete with the large Broad Breasted Bronze.

Oregon ranks fourth in market turkeys and second in the production of hatching eggs and poults among the states. If growers will continue to improve quality of stock, fertility and hatchability, they can continue to enjoy a good export business in eggs and poults.

The most popular breed is the large Broad Breasted Bronze. They grow fast, make rapid gains, and are heavy at market time.

A farmer should not enter the turkey producing business unless he has enough capital to purchase all of his equipment and his poults and to pay for raising them to 8 weeks of age. If the producer can do this, he can afford to borrow money to finish them.

Each 100 turkeys require two acres of land to provide for a two-year rotation.

In handling a flock of breeder hens, feed represents 33% of the cost; labor 27%; depreciation on breeders, 31%, and overhead, 9%.

The first essential in successful brooding is to obtain poults of good quality. Poults should come from flocks which are vigorous, broadbreasted, well-balanced, early matur-Turkey production in the United ing and free from transmissable diseases.

> Good brooder house and equipment are essential for successful turkey production.

> Feed costs are often reduced 10 to green feed is provided.

> Breeding stock should be selected before any birds go to market. The breeders should have free and easy action when walking and no tendency The breast should be broad, heavily fleshed and carry its width well back.

In 1945 in Polk County there were only two 4-H projects in poultry and tablished growers of the county for one in turkeys. Since there are 3200 boys and girls in the county eligible Also it seems advisable to recom- for 4-H club work, the committee remend that an advertising program commends and encourages more rural be put on and get markets to halve, boys and girls to engage in this proquarter or even cut turkeys into ject. It is the experience and knowpieces for the consumer. Producers how gained in early youth that pays

# Livestock Committee

er can best meet these problems.

SIRE IMPROVEMENT PROGRAM

which makes it more important to can be fed to livestock. have high quality sires. In view of the this condition, the committee recom- farmers who are exporting now while prices are high and replace much as possible. it with a more valuable and productive type animal.

Sires have to be proven before their abilities to transmit desirable qualities are known. When a good sire is found, wider use should be made of him, possibly through artificial in-

semination breeding.

One new method recently developed to measure the value of one sire from different dams at a given age. Two members of the committee who to feed one sheep. raise sheep expressed a desire to try this method this year and encourage order to make more and better use other farmers to do likewise.

Willamette Valley Sale as a good source for high quality breeding stock. This sale is limdependable source that should be enoutstanding breeding animals.

CLASSIFICATION PROGRAM

The committee would like to have classification programs developed by all breeds of livestock, similar to the use works in well. If it isn't possible classification program the American to have irrigated pasture, then le-Jersey Cattle Club now employs. This gume or grass silage helps fill the would better assist a purchaser in need. buying an animal from other countchaser, knowing the requirements of that classification, would know the comparative type of the animal.

The profitable to put the first cutting of grasses in the silo and feed it to sheep or cattle.

The committee also recommends

greatest change has been in the great tested for lime and phosphate and

The committeemen considered the decrease in hogs. On the other hand, problems which will affect the live- the amount of hay, grain and seed stock industry in the county for the crops has increased. This increase next few years and made recommend- with the livestock numbers staying ations as to how the livestock farm- about the same has made it possible to become an exporting county on some grain and hay crops.

Livestock prices are higher now It is recognized as the best practice than they have been for some time not to sell crops off the farm that Therefore committee recommends mends that every farmer who owns stuffs adjust their livestock numbers a non-desirable scrub sire, market it to consume their feed at home as Particularly legume hay should be kept in the county. PASTURE IMPROVEMENT

Polk County has about 100,000 acres of hill land pasture which as is produces three or four months of early pasture before it dries up. This type of pasture in its present state is better suited for sheep than cattle production. Due to the low producing native grasses that now grow on with another, is to weigh offspring these areas, it sometimes takes in an extreme case as much as three acres

The committee recommends that in of this type of pasture, the fields be Sheep producers should use the cleared of briars and bushes and Purebred Ram suitable mixtures of grass seeds be planted including subterranean clover. This practice would provide more ited to high quality entries and is a pasture for a longer period of time. dependable source that should be encouraged as a means of marketing creasing the livestock income in this county.

In connection with this practice, where it is possible to do so, some irrigated pasture for late summer

Usually our weather conditions are ies or states. If a breeder has an an- not suited to curing high quality hay imal for sale, he could describe it as from the first cutting of our legumes. classifying good, good plus, very good In many cases the farmer would find or excellent and the prospective pur- it more profitable to put the first

INVESTOCK AND FEED BALANCE that farmers seed recommended var-In the last 10 years, the total numieties of forage and pasture crops, ber of animal units in beef cattle and particularly alta fescue and subtersheep has remained about the same ranean clover, and try different ones in the county. The number of beef on small test plots to find out what cattle has increased from 200 to 300 suits their needs the best. In this cows while the number of sheep has connection, the farmers should have increased from 21,000 to 21,500. The samples of soils from pasture fields apply them accordingly. The County of livestock. Agents office can supply information MINERALS IN THE RATION and recommendations on varieties for such trials.

## LIVESTOCK NUMBERS

creased 17 per cent since 1941. Ore- gave dollars in added profits. gon has shown a 25 per cent increase.

12 per cent in sheep numbers while finely ground limestone two parts, Oregon has decreased 36 per cent. steamed bone meal two parts and In Eastern Oregon the decreased salt one part. Growing animals need sheep units have been replaced with minerals for proper bone developbeef cattle. In Western Oregon the ment. sheep numbers have increased slight- MARKETING ly indicating the farm flock business is being more permanently establish-

Hogs in the United States have inin Oregon they have decreased 30 per cent and in Polk county about

·50 per cent.

The committee recommends that a farmer let his own situation be the guide as to whether he increases or decreases his sheep or cattle numbers. If a farmer has either hay or is based on grades but he doesn't pasture going to waste, he should organize his farming and livestock

system so he can use the feed. At present Oregon doesn't produce enough pork to feed its population.

Due to present hog and feed prices, it may not now be profitable to feed hogs on a commercial basis. Oregon farmers long ago based their hog raising policy on the utilization of waste products. Even if this policy were followed in these present years Oregon could produce 100,000 more 3000 more.

The committee recommends that Polk county farmers consider utilizing some of their waste products to the extent that on farms where whole milk is not sold, one hog be kept for One each cow to consume the milk. hog can also be kept on each 5 to 20 acres of grain stubble and put on enough weight to make the farmer the average farm family.

farmers feel that goats have suffic-pounds of P205 (phosphate) per ton ient value as land clearers. They ut- of manure gives good results. ilize the feed on brush covered land, LIABILITY INSURANCE and DOGS reducing the brush and improving the grazing conditions for other types able number of sheep killed by dogs.

The committee believes that many farmers are overlooking the value of minerals in the ration mixture for In the United States, cattle num-livestock. In many experiments, a bers, not including dairy, have in- few cents worth of added minerals

on has shown a 25 per cent increase. A recommended mineral mixture. The United States has decreased can be prepared by mixing together

It was formerly the practice for most livestock to be sent to central markets such as Portland. Recently there has been a trend toward the creased 12 per cent since 1941 while farmer selling his livestock at home to representatives of packing companies who canvass the country. Under this system the prices have not always been uniform as to grade or quality.

The prices the farmer hears over the radio and reads in the newspapers always know the grade of his stock.

Community auctions are develop-ing all over the country and they affect prices to a great extent. Such auctions should be properly regulated in order to protect livestock health and sanitation.

The committee belives that farmers could do well by cooperative shipping to a central market and receive more

competitive bidding.

Some interest has arisen in a cooperative packing plant being located hogs yearly and Polk county at least in Oregon City. The committee believes that farmers would do well to encourage this interest as it may mean higher prices for the producer.

APPLYING PHOSPHATE

TO MANURE

The committee strongly recommends the practice of farmers applying phosphate to manure as it is produced. The phosphate tends to keep the ammonia in the manure consider it a profitable business. One from becoming available at once and hog can be kept on the garbage from leaching out. Also when such manure is applied to crops or pasture, a more Goats are usually not profitable balanced fertilizer results and is rewhen kept for mohair alone but many flected in the resulting feed. Twenty

Recently there has been a consider-

At the present the county doesn't month to lead a club. have any one employed to see that owners purchase a license for their expressed willingness to sell high Since license fees go into a fund to pay for livestock damages resulting from dogs, the committee recommends that the county court club members who had fat steer proemploy someone to enforce the dog law and make such collections.

Since the owner is liable for damages caused by his dogs, the committee recommends that farmers purchase liability or comprehensive insurance of a type which covers dam-

age his dog might cause.

#### 4-H CLUB WORK

The committee realizes that many ASSOCIATION livestock producers received their interest, training, encouragement and county should join the Polk County desire to be livestockmen through Livestock Association in order to and girls are participating in this program in the county. type of work at present. In developleader organization must be backing Farmers should be combined under the boys and girls. The committee the same supervision in the interests appeals to men and women to offer of economy of administration and their services of a few hours per production of more quality livestock.

Some of the livestock people have quality animals for 4-H club and Future Farmer projects at fair prices.

1n 1945 there were twelve 4-H jects; two had sheep projects and

only one had a hog project.

As there are 3200 boys and girls in the county eligible for club work, the committee recomemnds that boys and girls consider the value of these projects and participate in greater numbers.

# POLK COUNTY LIVESTOCK

4-H Club work. Also the committee realizes that not enough boys ducers and to further the livestock

It is the opinion of the committee ing strong 4-H work, a strong local that such agencies as 4-H and Future

# Dairy Committee

The dairy committee studied the crops produced on the farm than to tions as to what course the dairy bus- is removed from the farm. iness in this county should follow for FEED SUPPLIES the next few years.

## SIZE OF HERD

This shows an increase in the past dairy cows. Since there are around four years. Since there are around One of our major feed problems 1700 farms in the county, this is a at present is the scarcity of pro-The AAA subsidy records thow that by producing more legumes there are 300 herds in the county silage, more kale, by prov with over 8 cows.

The herd should be large enough time as possible. and silage produced on the farm. it showed a 10-cow herd produced It is usually a better practice to feed butterfat at 39c; 10 to 30 cow herd

dairy business, its past and present sell them. In selling crops all the conditions, and made recommenda- nutrient and fertilizing value of them

This county at present is producing ZE OF HERD more pasture and hay than it is feed-According to Extension Circular ing. We are exporting a consider-437, there were 8500 dairy cows over able tonnage of hay to the coast two years old in Polk county in 1944. counties where it is being fed to

One of our major feed problems 5-cow average per farm although tein supplement feeds. This can be several farms have 40 or more cows. remedied to a considerable extent providing an improved pasture program, and If more than two cows are kept, by producing better quality hay. Hay then enough cows should be kept should be harvested before it is too to make dairying a considerable mature and by such methods as will source of income. When the number conserve more color and leaves and of cows is too small, the owner may thus more feeding value, and this neglect them for other enterprises. means it must be done in as little

consume the pasture, forage In a cost survey made in 1933,

and over 50 cow herd at 31c, showing tential milk consumers added each that generally larger herds are more year. If we were to use dairy pro-

practical than small ones.

1939, Polk4200 acres of alfalfa. By 1944 this for continued expansion. Other food acreage was reduced to 2700. The industries are also after the same committee believes this acreage should be increased to feed more economically the dairy cows of the county.

#### LABOR PROBLEM

Labor supply as well as feed supply must be considered an important factor in the size of the herd. A dairyman should make efforts to secure and maintain a steady labor supply. If he finds a very exceptional man he may find it profitable to put him on a salary and percentage basis. Under this basis the laborer knows that the more he makes for the boss, the more he will make for himself.

#### GRADE STANDARDIZATION

At present the committee reports are different grade standard qualifications among counties and cities and even within sections of DAIRY HERD IMPROVEMENT the same counties. It is the recommendation that a centralization of inspection be brought about with a definite set of production requirements for the same grade of milk produced regardless fo locality.

#### **INCREASED QUALITY** AND QUANTITY

The total number of cows and the total milk production is at an all-Farmers are moving high. steadily toward more grassland farm-The acres of improved dryland irrigated and pastures increases

yearly.

The population of the West coast has increased and probably will insame level so long as there is amp- according to DHIA records. le employment, people have money, and quality dairy products are avail-

Therefore in view of these facts. the committee believes it would be production is raising dairy replacesound business for the dairy farmers ments from high production sires, creased pasture produced.

#### MARKETING OUTLOOK

Our population is increasing year- service of good bulls.

at 35c; 30 to 50 cow herd at 33c; ly which means we have more poducts on the basis nutritionists say County raised we should, we would have much room potential market. Dairy products consumption has usually been parallel to the family income level. Now cur family income levels are high nationally but how long that will con-Consumers intinue is uncertain. come may be expected to remain fairly high for the next few years and milk produced under the above recommended increase should find a waiting market.

The Oregon Dairy Council has been doing a fine job of advertising dairy products with the funds it has had. committee recommends their funds be increased from the one-half cent per pound of butterfat deducted from the dairyman's pay check for one month of the year to one cent or more.

The average butterfat production per cow in the United States is about 189 pounds. The average in Oregon is 248 pounds. The average in Oregon under Dairy Herd Improvement Association testing is 350 pounds. This increase for DHIA testing is due to more definite information on the actual production of cows tested in herds. Each cow is tested each month and her actual production is known. If a cow shows that she is consistent low producer, she is sold. Every dairyman should know the production level of his cows and take advantage of DHIA testing.

A cow that produced 200 pounds crease for some time. The per cap- per year at a feed cost of \$98 showita consumption of dairy products ed a return above feed cost of \$78. in Oregon and Polk County has prob- while a cow that produced 400 pounds ably increased during the war per- at a feed cost of \$130 sh wed a re-iod. This will continue at about the turn over feed cost of \$208 in 1944,

> A dairyman can increase production by knowing which cows are pre-

ducing most profitably.

One of the main steps in increasing to increase dairy numbers sufficient- therefore the committee recommends ly to consume the roughage and in- that a program of artificial insemination be worked out whereby especially the small herd owner can get Production testing is the only way en into the armed forces and the of proving the value of sires. It is testing program suffered greatly. Of the only way of knowing the product he number tested in 1944, over one tion of each cow. The knowledge of per cent were reactors. the level of production is basic to a mittee strongly feels that a program sound feeding or management pro- should be conducted to insure con-

#### DISEASE CONTROL

Mastitus in dairy cattle is now recognized as probably the No. 1 disease so far as losses are concerned, State Department of Agriculture and

ed by Bang's disease.

Research on the various phases of testing of this area. astitis indicates that a sound promastitis indicates that a sound promoval of infected animals. Many re- could spread and jeopardize every medies have been advanced without herd in the county. a high percent of cures. More revention is still the best control and sideration. management practices should be fol- 4-H CLUB WORK lowed that will keep mastitus at a verv minimum.

er of reacting animals.

erinarians and technicians were tak- to be dairy farmers.

tinuous decrease of the disease toward its erradication.

The recent legislation placing the program directly in the hands of the perhaps even greater than those caus- providing a Bang's inspector for each county should provide more complete

gram of control must be based on farmer to insist on having every head early detection of the disease, san- of cattle he has tested. Should disitary measures, and treatment or re- eased animals be missed, the disease

Sanitary control or good herd mancent developments in the use of sulfa agement must not be overlooked in derivatives, penicillin and other pro- the study of this problem. Prevenducts have been encouraging. Pre- tion remains the most important con-

In 1945 there were two standard ry minimum. dairy clubs with a total membership Since 1934, until last year, the test of 17 boys and girls. Since this county and slaughter program for the con- has a larger income from dairying trol of Bang's disease has brought than from any other source, more about a great decerease in the numb- boys and girls should be taking part in the 4-H dairy projects. It is evi-During the war years, many vet-dent that many of them are going

# Farm Labor Committee

labor stiuation in Polk County and factory toilet facilities. developed at least seven problems

the committee believes that 1946 may quate. be a more difficult year for farm And labor supply than was 1945.

ernment on Mexican national labor.

More children can form an es- ket until after 1946. sential part of our labor supply in harvesting certain types of crops if tive to the farm labor program in used on a piece-work basis with rei- the county as follows:

· The committee considered a num- atively short hours, good supervision, ber of problems relative to the farm protection, place to eat, and satis-

Migratory fruit labor will undoubtthat recommendations are made on. edly continue to be as plentiful as it. At the outset, it must be said that has been although this is not ade-

Another, consideration is that if a This full employment program develops condition should gradually improve as Congress plans, there definitely as time goes on but the outlook for couldn't be enough farm labor during the next year is definitely not too the harvest seasons. With no patriotic appeal now, with few foreign Last year we used both prisoners workers and no prisoners of war, the of war and Mexican nationals total- problem of supplying farm labor in ing 1243 and this year we face a 1946 is certainly a big one. Labor-problem of having neither as no deal saving machinery may be of some has yet been completed with the gov-benefit, but prospects now are not for much of it to appear on the mar-

Seven points are represented rela-

#### 1. SHORTAGE OF HOUSING.

Farmers that have housing for temporary farm labor during harvest seasons will continue to have an advantage in securing labor.

Where community housing can be developed in sizeable quarters, communities can probably have an advantage also. This committee recommends that farmers attempt to secure or construct some additional tunities for community housing facilities.

#### 2. CHILD LABOR LAW.

Last year over 25,000 youths who worked on farms in Oregon had an average age of slightly over 12 years. Ninety-five per cent of the work they did was piece-work. If a national or even state child labor law were to be developed and enforced, this would probably prevent a large portion of this number from working on farms, hence farmers should give considerable consideration to such legislation and oppose its effect on The comusing youths on farms. mittee is of the opinion that many of these boys and girls are decidedly off in such work under proper supervision than they might be roaming the streets or otherwise unemployed.

## 3. POLICY ON SCHOOL VACA-TIONS & SCHOOL COOPERATION. The Polk County farm labor com-

mittee wishes to commend the officers and directors of Polk County schools for their very fine cooperation with farmers in the past relative to establishing opening dates of school to conform to harvest completion dates. It is hoped that such a spirit of cooperation can be maintained in the future.

#### 4. SOCIAL SECURITY.

The committee is of the opinion that the social security law should be expanded to include farmers and farm laborers, however, it may be advisable to permit farmers to accept or reject such a program.

# RELATIONSHIP.

compared with year 1945 estimated, ests. appears in the following table:

	ACREAGE			
CROP	IN 1940	IN 1945		
Snap Beans	2,200	4,500		
Peas	21,000	45,000		
Dry Onions	3,200	5,000		
Potatoes	35,000	54,000		
Peppermint	2,800	7,500		
Sugar Beets	2,700	17,000		
Hops		22,000		

It is evident from the above table that the acreage of high labor rehousing facilities in order to take quirement crops has increased treadvantage of this situation and that mendously from 1940 to 1945 and that communities be surveyed for oppor- part of the difficulty experienced in securing adequate help has not been that help was not available for the pre-war acreage but that the acreage was so greatly increased that even in normal times it would be doubtful if sufficient labor could be recruited for it.

> In other words the committee is definitely of the opinion that growers planning to expand acreages of any of these crops should have adequate labor arranged for before planting any additional acreage. The farm labor service or any other employment service cannot possibly continue to find an increased quantity of help for such crops with the present lim-ited agricultural worker population

#### 6. FUTURE FARM LABOR SER-VICE PLANS.

The Oregon State College Extension service will withdraw from the farm labor field at the end of 1946 having assumed the job for the war period only and as a war emergency task.

The committee in considering this. problem is of the opinion that a farm labor service must be made available to serve farmers and assist in locating a considerable quantity of farm The committee believes that labor. some agency in this state could well handle the assignment with certain provisions. One is that this agency should provide at least the proportionate amount of money and personnel for agricultural employment service as agriculture derives from the total income of the state as compared with employment agencies pt or reject such a program.

serving industry. Part of the difficulty in the past, the committee believes, is insufficient emphasis on A review of the crops requiring a agricultural employment and on lack great deal of hand labor in this state, of full appreciation of the responsitogether with the acreages in 1940 bility in serving agricultural inter-

More farm labor has been placed

#### 7. FARM WAGE CEILINGS.

farmers in each type of production remaining on Pacific Standard Time.

each year of the three last succes- consider using this board in estabsive years than was ever before plac- lishing farm wage ceilings. The hop ed in Oregon, attesting to the ef- industry has been very favorably imficiency and success of the work unpressed with the program and made dertaken by the Oregon State Coluse of it during the past season. In lege Extension Service. This comlight of that experience, this committee commends J R Beck, who has mittee suggests that prune growers been in charge of this program, and and possibly growers of other comhis staff for the outstanding job per- modities consider using this board and establishing wage ceilings also.

An amenament to the report unanimously adopted was to the effect The committee commends the farm that farmers oppose all plans changwage ceiling program of the Oregon ing time to daylight saving and that Wage Board and recommends that farming interests are best served by

# Farm Crops Committee

number of problems pertaining to program. the general field of farm crops in this county and because of the extwice as much corn as it produces, treme diversity, it is necessary to discuss problems and recommendation bushels at this time. tions relative to many of them separately and also to make some recommendations in the work, appropriate to this committee, in general. GRAIN CROPS

Polk County is not a heavy producer of grain crops as it was early in its agricultural history. It does retain, however, a unique position among Willamette Valley counties in that it produces some grain for ex-This situation has developed largely through the fact that many other crops have taken the place of grains because of the higher cash value and in some cases because they fit into a more satisfactory rotation

Grain crops should be continued only to the extent that they do fit into the needs of a farm and into a satisfactory rotation program. Spring this county on a productive basis in barley will probably continue to be 1945 and approximately 35,000 pounds

for grain or for silage, the committee ation of the committee that on farms feels that it is important to discuss where this variety proves useful they corn growing, because it can fill a produce their own seed requirements two-fold purpose on many farms. each year. It will be very easy for Corn can be a deep rooted and culti- a surplus of this seed to develop unvated crop that could fit well into less growers find sales outlets for rotations on a large number of farms. limited quantities and produce ac-In addition, it offers about the only cordingly. This year there probably cultivated crop that Polk County will be sale for a quantity into neighfarmers can make much use of as boring counties.

The committee considered a great part of a constructive weed control

Oregon imports each year about

Corn to be marketed shelled will necessitate artificial drying which will cost approximately \$10 per ton. One dryer can probably service 200 acres or more. The most economical use would be for hogging off and early maturing varieties are necessary. Eureka and Hybrid 100 are recommended for hogging off and Hybrid 525 has given best results in this county for grain production. For silage 525 and 355 are most widely

Corn can be cribbed and some growers follow this method of storing and feeding the following season with very little spoilage. This is only practical where the corn is utilized on the farm where produced.

Abruzzi Rye was introduced into the main spring grain produced.

While corn is produced on a relatively small area in the county either grain purposes. It is the recommend-

#### FORAGE CROPS

Polk County produces more hay than is consumed, however, it is believed that for the best soil fertility program all hay should be consumed

in the county if possible.

Hay quality can be be improved. improved by reducing the amount of time between cutting and baling or storing through the use of improved equipment. The first cutting of alfalfa or clover in this county will always be more or less hazardous from grasses and offers perhaps the greatthe weather standpoint. More feed est single source of increase in revnutrients can be saved from early enue to the county. cuttings if they are put into the silo SEED CROPS instead of utilized for hay where this is practical. producer to take the first cutting off production with a peak of approxisooner and without danger of loss mately 40,000 acres having been deno matter what weather conditions voted to seed crops in 1941.

ized on the farm, somewhat cheaper for AAA uses in the South, support than silage on account of the fact prices have become so well establishnot handled as when silage is made, offered through regular trade chan-It is believed that the increased quan-nels. tity and quality of feed produced that the AAA Commodity Credit from silage from first cuttings just- Corporation continue to offer such

ifies the extra expense.

The committee recommends that in this state. the alfalfa acreage of the county be (1) That where alfalfa grows succan be produced per acre than from any other hay crop; (2) it is one of the best soil building crops possible to use in the farm rotation system. in these respects.

## PASTURES

During the past few years, the type of pastures has changed more here than has any other phase of agricultural production, through the in the production and consequent martroduction and use of improved pasture plants.

have been insufficient. plants and in combination with other grasses have made possible greater production of pasture over a longer period of time and on land hereto- er crops and the committee, after fore not very productive. Farmers considerable study and investigation, who have not already made use of is of the opinion that dusting hairy these plants should do so immediately vetch, Austrian peas and other seed if they desire increased production crops with planes is also practical A bulletin on sub clover and one on to the extent that it should be given

alta fescue should be procured by every livestock producer in county and bulletins on other improved grass varieties should be requested as they appear.

Irrigated pasture should be increas-The value of forage can materially ed on farms where water is available as the most economical feed supply

for livestock.

Most of the present non-crop pasture land in the county can be made much more productive through some clearing and seeding of improved

Polk County has rapidly changed This also enables the from a grain producing area to seed

re.

Through having the Commodity
Hay can usually be handled, if utilCredit Corporation purchasing seed that the great amount of water is cd that it has governed the prices This committee recommends prices on cover crop seeds produced

Because the variety of seed crops increased greatly for two reasons. is so great and because there are certain problems attending each one, cessfully, more actual food nutrients the committee chooses to list and discuss them separately as follows:

HAIRY VETCH

Hairy vetch seed production reachan acreage of approximately ed Red clover comes second to alfalfa 22,000 in 1941 and has dropped to about one-fourth of that because of the injury to the seed from hairy vetch weevil. Until the development of the insecticide known as DDT, there was little hope for regaining ket of this crop. DDT now offers a possibility to hairy vetch producers Subterranean clover and alta fes- in the control of hairy vetch weevil cue have reached such a popular de- and the committee recommends that mand that each year seed supplies a control program be conducted by These two growers this year in a very pretenwith other tious although experimental scale.

The use of airplanes in dusting has been successful and practical on otha large scale trial this year.

county-wide meeting of vetch and tively high yields. pea growers be called very soon to discuss this matter completely and for the purpose of planning a control program for the county with the idea of pooling the acreages of these crops by growers in the county wishing to dust and contracting with responsible airplane concerns to do the dusting. The cost of dusting this year will be approximately \$\bar{2}\$ per acre which is more expensive than surface type of dusting as practiced heretofore. Growers report injuries to plantings through surface dusting operations of about 10% of the crop which much more than pays the difference in cost between surface dusting and airplane dusting.

The market outlet for hairy vetch continues to be greater than producers have yet been able to supply.

Willamette Vetch

Willamette vetch production has increased to over 12,000 acres in this county largely because of the decrease in hairy vetch production. hairy vetch increases, the market for Willamette vetch will probably weak-en considerably and possibly to the extent that there will be considerable surplus if the present rate of production continues. There probably would have been a surplus this year had not a temporary foreign market developed for it that took not only stored

Willamette vetch has proved its superiority over the common vetch to the extent that the committee recommends that whether for hay, cover crop or seed production, all farmers substitute it for common vetch.

until the market for Willamette vetch of plant grown first. no longer justifies it, that a certification program be continued in the straw on the land seems to be quite county that will guarantee an ade-

Because blue tag requirements are so much higher than for red tag, the committee recommends that blue tag seed bring a premium of 15% when production.

#### Austrian Peas

trian peas will probably continue to side market outlets can be develop-

be limited and be produced only by The committee recommends that a those farmers who can secure rela-

Crimson Clover

A limited acreage of crimson clover is justified because of the value for the plant as a cover crop and in annual pasture mixtures. Some years there is some outside demand for seed and when this is true, the acreage should be increased accordingly.

GRASSES Common Rye Grass

This crop has developed from virtually a by-product several years ago to main crop proportions and the market outlook for the future continues to be quite bright.

When produced on a main crop or complete field basis, the crop should receive an application of nitrogen fertilizer. This grass is best adapted to wet and low yielding heavy soil areas and is not to be recommended for well-drained high-yielding grain or seed land as these areas should be kept clean and free from it for other crops.

Perennial Rye Grass (English)

This grass finds a fairly steady market although the acreage should not be increased much over what is now produced annually in this county. It is best adapted to heavier soil types and provides a good type of cash crop when properly fertilized.

Growers should be cautioned in the seeding of perennial rye grass to supplies but also much of the curselect seed so far as possible from plantings not infested with the socalled light seed disease. Also seed that is fully two years old only should be planted, as the disease, if present, apparently dies out in seed stock of Reseeding on affected that age. areas should not be practiced without The committee recommends that at least one crop of some other type

the English rye grass Burning helpful in destroying spores of the quate supply of foundation grade disease and gives some additional seed. crop.

Alta Fescue

The acreage of alta fescue for seed production has been insufficient in sold to growers here for further seed the past, however it is believed that the acreage that will come into seed production this year will probably Because other areas offer strong make further great expansion of the competition, the production of Aus- seed areas unwise until further out

yields when planted in rows and culplantings have the advantage, however, of being usable either for pasever, of being usable either for pas- be developed, red clover seed producture or seed production. When the tion cannot be assured. It is the stand becomes too thick, however, seed yields decline greatly. This grass is not as heavy a seed producer as other fescues but can probably be of this insect and other causes of planted on wetter, heavier soil.

Chewing Fescue

This grass offers a possibility for a seed crop in the county when produced on clean ground and properly fertilized. Future plantings, however, must be based on outside competition.

Red Fescue

It is very similar in production to chewing fescues except that satisfactory seed yields are not as regular. The market outlet, however, appears quite satisfactory. Growers should investigate the possibility of producing popular strains for a more sure market and consider row plantings

#### Other Grasses

Because of the increased use of Tulatin grass, orchard grass, meadow foxtail, canary grass and sudan grass, acreages can be devoted to them although markets at the time are somewhat limited and harvesting methods, particularly for meadow foxtail, need improvement to make particularly that crop profitable. These grasses have specific uses that fully justify planting them, especialas pasture grasses on certain areas.

#### CLOVERS

## Alsike Clover

Alsike clover has a place on Polk season County farms, particularly on some of the heavier and wet soils and provides a means of getting a legume crop into the rotation. Recently growers who have secured bees in the number of one hive for each acre have found seed production increasing greatly. This suggests that every clover seed grower should secure additional bees to this extent if possible.

#### Red Clover

ually as a seed producing crop in stage, growers in large numbers will the county, largely on account of seed not yet consider this as a seed crop. failures during recent years. The failure of this crop to set seed has and is in prospect at this time. been charged largely against small

Alta fescue for seed production black bugs known as Nitidulids which on most soils produces much heavier are pollen feeders and which are sometimes located with difficulty in tivated the first few seasons. Solid blossoms or seed heads. Until a satisfactory control of these insects can recommendation of this committee that the Oregon State College Experiment Station undertake the study such failure of red clover and determine methods that will assure in-

creased seed yields. Red clover is still recommended as a valuable crop for hay and in rotations

#### White Clover

White clover as such has been grown to a very limited degree in this county but with some success. The market is quite satisfactory, however, yields are not always so. Producing different strains of white clover seems to be more advisable than growing just plain ordinary White Dutch.

Ladino clover, which is the irrigated type and is a giant white clover, offers considerable possibility as a seed crop particularly in irrigated areas. Growers have not been inclined to favor it greatly under non-irrigated conditions although it is reported that a few growers have been successful with it. There is a ready market for ladino clover at prices that well justify its production, however, it will usually be produced by those who can take advantage of the early growth in pasture or silage before letting it go for seed. Latest recommendations are to irrigate it during the growing and blooming until nearly harvest time which should be about mid-August.

#### Subterranean Clover

This is a relatively new forage crop and pasture plant, introduced to this section in the last few years. A very strong market for seed has develop-Because of its reseeding chared. acter, however, the seed requirement for the county could scon become supplied from a limited acreage of seed. Because the seed is difficult to harvest and because harvesting This crop has been reducing grad-methods are still in an experimental

An outside market may develop

Most successful planting time for

this clover has been May, made either secure contracts with the various alone or with nurse crops such as flax plants adjacent to the county. sudan grass or winter wheat utilized for pasture. Fall seedings, while recommended when early and suf. ficient rains are secured, have not been very satisfactory during recent years as rains have not been sufficient or early enough to start new rooted if fall seeded. Early fall seeding is recommended on summer fallowed ground in preference to seeding on fields cropped the same season. This clover seems to respond well to lime, phosphate and landplaster, but also grows to good advantage on some of the poorest soils in the county and without lime.

This clover is an annual and makes its most rapid growth in the spring and early summer and dies in July following its setting of seed. Two strains recommended here are Mt. Barker and Tallerook.

#### Lotus

While Lotus has been given considerable publicity in other sections, it has not been a very successful crop in this county as yet. Some of the failures have no doubt been due to having seed beds not firm enough. If satisfactory stands could be secured, the plants should be wel! adapted to certain wet and heavy land areas in the county. Seed production is justified by present prices, although seed harvesting is somewhat difficult.

#### VEGETABLE SEEDS

A new field has been developed during the war period in vegetable The future of this seed production. industry, however, will depend greatly on inducement given growers by The outlook is prices obtainable. not bright at this time for any substantial production of vegetable seeds in this area.

#### FIBER FLAX

ed entirely to those growers who can as follows:

#### GRAIN FLAX

This crop is produced to a very limited degree each year although the last few years there has been considerable improvement in the market outlet because of the need for linseed oil and oil meal. Growers contemplating flax production should by all means plant it on areas definitely known to be clean and free from other types of plant or weed growth. Weeds greatly with harvesting. Ordinarily other spring grain crops are more easily produced.

## SOIL IMPROVEMENT

Greater use of crop residues is essential for increasing soil fertility and crop production. The committee recommends that under no circumstances should legume straws burned and in very few instances should grain straw be destroyed.

Farmers who have made a consistent practice of utilizing crop residues have definite evidence that crops yield heavier, erosion is prevented, winter kill is avoided and also humus is added to increase moisture holding capacity and fertility is greatly increased.

The reason most farmers give for destroying plant risidue is the difficulty it involves in working the soil. The committee recommends that machinery manufacturers. experiment stations and farmers give considerattention toward developing equipment which would make spreading the straw less difficult. machinery should also be developed for use in better utilizing straw.

Many legume straws in particular have so much fertilizer value that it is absolutely uneconomical to de-Considerable time and stroy them. money could be spent by farmers utilizing such material when it is understood that various crop residues The acreage of fiber flax is limit- have fertilizer values on a ton basis

				Fertilizer
	Nitrogen	P205	Potash	$\mathbf{V}$ alue
Crop Straw Residue		Lbs/Ton	Lbs/Ton	\$/Ton
Hairy Vetch	39	10	27	\$7.41
Common Vetch (Will.)	28	7	21	5.39
Crimson Clover	32	6	23	5.99
Red Clover				
Alsike Clover	31	7	22	5.86
Austrian Peas	24	6	24	4.92
Wheat Straw	10	3	12	<b>2.1</b> 8
Oat Straw	12	4	25	2.92
Barley Straw	12	<b>4</b>	22	3.02
Flax Straw	16	4	19	3.43
Grass Straw (aver.)	13	6	15	2.93

(Nitrogen Valued at 14c lb.; Phosphoric Acid 6c lb.; Potash 5c lb.)

bench soils, would respond to applications of ground limestone and le-Areas that do gume production. show a response should be on a rotato each field about once each 8 years.

While this area produces great quantities of cover crop and green manure seed for use in the southern states, it is the belief of the committee that Polk County farmers have not used the practice of growing cover crops or green manure crops to the extent that would benefit them and the agriculture of this county. Farmers have learned that this practice offers about the quickest way to improve soils and in many instances the crop the following year has more than doubled in production, justifying in one year the practice even though one year's production is lost in producing the green manure crop and then summer fallowing. Such areas should then be seeded to fall crop. This is a recommended practice in fitting an area for seeding to permanent grass plantings as well as for grain or seed crops.

The committee recommends that every farmer consider and establish simple soil improvement trials, using lime, phosphate and landplaster on legume crops. These can be worked out in a small area of a half-acre or less with little expense or trouble. Farmers may secure the assistance of the county agent's office in estab-

lishing these trials.

#### COMMERCIAL FERTILIZER

The use of commercial fertilizers years for legume crops. is relatively a recent practice in this area but has now been used to the sufficiently informed on the value

Most of the farming areas of the extent that it has become establishcounty, particularly the hills and ed and has proved itself to the point that farmers are using various forms of commercial fertilizer in greatly increased quantities each year.

Because of the experience gained, tion program with lime being applied it has been found that phosphate fertilizers, except when applied with new legume seedings in the spring, should usually be applied in the fall on already established legume plantings and with the seed of other legumes planted in the fall.

> Applications made through fertilizer attachments on drills are most effective and more efficient than surface applications. Spring applications of phosphate have not paid nearly as well as fall applications especially when applied on the surface.

Nitrogen fertilizers have been used in greatly increased quantities each successive year in the last five years to the extent that adequate supplies have not been available the last three years. In general, farmers should well consider applying 15 to 20 pounds of actual nitrogen per acre as a top dressing to fall or spring planted grains and 30-40 pounds per acre in the spring to grass seeded areas. This amount might well be increased on some soils although on some of the more fertile soils, it might be decreased to some degree. Each farmer must try varying rates to determine the best rates for his operations.

Landplaster (gypsum) is quite universally used by farmers over the county and recommendations for its use have not changed in the last few

Because farmers generally are not

that recommends committee county agent's office include infor- along with livestock where possible. mation on fertilizers in connection WEED CONTROL with other meetings held in the county that deal with general crop

and seed production.

It has been brought to the attention of the committee that ammonia sulphate production has been stopped at the plant at Salem. It was the opinion of the meeting that farmers would go up to \$55 per ton for the time being, if an adequate amount could be made available. This price was considered not out of line with mixed fertilizer now on the market.

#### BULK HANDLING

Farmers of the county through lack of sufficient farm labor have de- all farm organizations and organizaveloped numerous labor saving de-tions of farmers in farm communvices and practices. One of these is ities the bulk handling of grains and seed weed control features. There is probcrops to the extent that warehouses ably no problem affecting this county in the county have not had facilities that justifies more attention and equal to handling such crops in bulk. therefore no problem any organizations committee believes that ware tion could do better work on than houses handling large quantities of this.

The committee believes that the proved and greater bulking facilities AAA organizations should continue to better serve farmers using this weed control as one of its main pracmethod.

this offers a suitable means for many made. to more effectively and efficiently Camp Adair has become the breed handle their seed and grain crops and ing area for noxious weeds and every there are not many farms that can under farmer-owner control as soon justify developing them. It has been as possible. estimated that at the present time such a unit built new would cost be-tween six and eight thousand dollars. at least one field of corn each year At least 200 acres of such crops as a means of combating weed proshould be produced in order to justify duction to a greater degree than is such a warehouse.

## 4-H CLUB WORK

Many successful farmers received their early training and interest in for the control of certain weed pests agriculture through 4-H club work. and it is recommended that this prac-Crop production in general makes tice be utilized and that as many deup about one-half of the farm income monstrations of its use be made in in the state, however, 4-H club work the county as possible in order to in the crops field is very limited. The ratio of livestock to crops projects is about 21 to 1. We believe that young farmers including both the county as possible in order to familiarize growers with the practice and to secure proper and adequate equipment for its increased use. The committee recommends that 4-H and Future Farmers of America the county agent's office devote conshould receive more training in crops siderable time and attention to methwork and consequently that crops ods of controlling the three weeds projects should be emphasized more mentioned above to develop the most

and use of commercial fertilizers, the greatly by parents and should be additional the conducted as

The weed problem in Polk County has become extremely serious as evidenced by the tremendouly increased acreage of Canada thistle, morning glory, tansy ragwort and others. The committee is of the opinion that these three weeds in particular and others in general should be attacked by a unified control program developed on a county community and individual farm control basis. Weed laws should be strictly enforced and weed control districts developed as a better means of enforcing control provisions.

The committee recommends that their programs include in

tices for payment and that this prac-Because so many farmers are find-tice should receive as much or more ing farm warehouse units so satis- payment as any other practice in factory, the committee believes that this county for which payment is

effect considerable savings also. Be- means possible should be taken to cause of the cost of an efficient unit, get that area freed from weeds and

possible through the planting of other crops.

Selective sprays are now available

successful means of control as well can now be controlled with the use as the most economical.

tion and there are new products be-coming available for destroying beetle and flea beetles which have weeds that should be tried out in this county as they can be secured.

Twelve-spotted be-beetle and flea beetles which have been serious pests on kale, rape, seed-clovers and others can be controlled

of DDT and other insecticides may There is considerbale new informa- be developed that will further aid in INSECTS AND DISEASES with DDT, the committee is information has not yet the control of insects and other pests heen generally made available but affecting various farm crops. Many probably will be this season.

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