



DOES YOUR BULL LOOK LIKE THIS?

ENGINEERING ON FARMS IS IMPORTANT MATTER

SERIES IS BEGUN BY ELMO HARRIS

Farmers Are Urged To See Possibilities In Things

METHODS SUGGESTED Permanent Homes Is One Of Many Needs In Country

(By Elmo G. Harris)

Editorial Note: Elmo G. Harris, an uncle of Lyles Harris, and professor of hydraulic engineering in the University of Missouri, has prepared a book on engineering problems that come to the attention of farmers. The book has not yet been published, but is being printed in full in The Press. After the series is ended, readers will have the contents of a complete book, provided the articles are preserved.

That the reader may be sure that the author knows what he is writing about, he is informed that the author was a farmer boy. It was by sweat of the body, aching back, weary limbs and disappointed hopes that he became impressed with the need of more attention to, and better solutions of, the simple problems in engineering that the farmer should recognize, study and solve. Throughout the author's 30 years as a civil engineer he has never lost sympathy for the farmer in his struggles nor ceased to take an intense interest in every step and more for betterment of conditions on the farm and about the country home.

The profession and practice of civil engineering trains one to utilize the resources of nature and develops an alertness to see possibilities that the untrained would not detect; and to see blunders and neglected opportunities where a casual observer would be seeing other things.

Costly Blunders

The multitude of such cases coming under the author's observation has led him to believe that such mat-

ters as are presented in this series of articles may save some of the readers from costly blunders that are much too common and may prompt others to look about them with awakened interest and a better understanding of what they see.

And so it is hoped that this volume may be instrumental in hastening



A LIVE-AT-HOME GARDEN

forward the already rapid progress in betterment of conditions of the farmer, his family and his farm, and in making farm life less monotonous, more profitable, more healthful, less wearing, more attractive.

If the author has succeeded in infusing this series with the spirit in which it is written, a very real benefit from its reading, by a group of neighbors will be a prompting to discussion, consultation and a seeking for advice; any and all of which will be manifestations of the awakening which is the chief object of this work.

The series is designed to serve private parties or small interests, chiefly farmers. Therefore, no attempt is made to cover the larger and more intricate and costly engineering works—to carry out which would require the service of a trained engineer.

The language is non-technical as far as possible and only the simplest arithmetic is used and as little of that as is consistent with the object of the work.

TOTAL OF FORTY PIGS IN 3 LITTERS IS SOW'S RECORD

Jess Thomas is proud of a sow he owns. He reports that her last three litters have totaled 40 pigs. Thirteen pigs came in each of the first two litters, and 14 in a litter that has just been born. Nine pigs each were raised from the two first litters.

YE FARME GOSSIPE

The best bargain in farm seed is the best seed you can buy.

More care means less wear with farm machinery and equipment.

Fertilizer money to be a real investment and not an extravagance should be spent intelligently.

A farmer "too busy to bother with the garden" is too busy to consider a big factor in health and economy.

Cows that eat their heads off should not be allowed to eat up their owner's pocketbook.

"Moreover, the profit of the earth is for all: the king himself is served by the field."—Ecclesiastes.



PUREBREDS—GROWING UP TOGETHER

CO-OP EGG ASSOCIATION MAKES MANY MILLIONS

CARLOAD SALES AMONG RESULTS

Poultry Industry In Whatcom County, Wash., Grows Vastly

COUNTY IS ORGANIZED

Has Best Agricultural Co-Op Record In United States

Whatcom county poultrymen received \$2,900,000 for 600 carloads of eggs marketed in 1929 and another \$200,000 for forty-five carloads of poultry shipped from that county, according to a statement issued by J. S. Witter, manager of the Bellingham branch of the Washington Co-operative Egg and Poultry association, and Ray H. Slade, manager of the Lynden branch, which shows the remarkable growth of the poultry industry there. The statement was made in connection with the opening of the association's chicken canning plant.

The statement adds that the total volume of Whatcom county transactions of this enterprising co-operative for the past year will reach \$5,500,000.

The importance of the poultry industry to the county and the Pacific Northwest is emphasized in the following statement by Mr. Witter and Mr. Slade:

New Records

Increasing the tax rolls of Whatcom county to the tune of millions of dollars, furnishing outlets for produce, grain and straw, the poultry industry is making up new records in achievement for Whatcom county, and together with dairying and other diversified agricultural interests is reclaiming much of the previously non-productive logged-off land areas and transforming them into bright and prosperous farm units.

Two hundred and fifty employees of the Washington Co-operative Egg and Poultry association are regularly employed by the Whatcom county branch stations and each year the new and additional volume of business adds to these local payrolls.

There is in excess of one million dollars invested in poultry laying-houses in Whatcom county to say nothing of the millions in dwellings and equipment necessary for quality egg production.

Banner Year

Whatcom county, true to its tradition of being the best organized county, agriculturally, in any state in the United States, has experienced a banner year in her co-operative sales handled through the Washington Co-operative Egg and Poultry association.

From her beginning in the poultry industry when shingleweavers and sawmills dotted every township in the county, her poultry growth has steadily forged forward.

During 1929 there were co-operatively marketed from Whatcom county 600 carloads of eggs. Producers were paid approximately \$2,900,000 for these 600 cars which have a market value in the primary markets of approximately \$6,000 per car, which includes freight, the cost of preparation for shipment, and selling cost.

In addition to the \$2,900,000 paid poultrymen for their eggs there was \$200,000 paid producers for forty-five carloads of poultry shipped from the county, and this farmer-owned association manufactured and retailed to its membership 1,750 carloads of feed at a retail price of \$2,100,000.

A close estimation of the deferred refunds on feed and additional payments on eggs which will come into the county, partly as dividends on stock and partly in cash, will be an additional \$300,000, thus giving a total volume to Whatcom county transactions of this enterprising co-operative of \$5,500,000 for last year.

Public Invited

During 1929 the association razed its former mill at 1208 Central avenue, and constructed a \$100,000 concrete mill building and feed warehouse with every modern facility for the manufacture of poultry and dairy feeds. The general public is extended a cordial invitation to inspect the excellent facilities of this farmer-owned industry.

During the year 63,510 checks were released in the county in payment of eggs, to say nothing of checks released in payment of poultry, dividends, surplus retirement, stock called in for retirement, and other co-operative benefits which have been so

(Continued on page four)



CORN GROWN AFTER LEGUMES



WILL YOURS BE LIKE THIS?

Probably one of the most deplorable (Continued on page four)