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BY W. S. RAKER,

FOUR million one hundred one thousand nine hundred sixty-two pounds of cheese, made in Tilla mook County, Oregon, last year, sold for \$627,185.10 cash at Tillamook. This was all made from 7140 cows, or nearly \$100 per cow.

The average butterfat price during the month of May when milk yield is highest and prices lowest was 38 cents per pound. One factory here during the same month got 33 cents per pound for butterfat, but it is not yet in the association and does not have the ad-vantage of the inspection and the cooperative selling agency, which clearly demonstrates the advantage of co-op eration in the cheese industry.

"Tillamook cheese" is nothing more nor less than pure, full cream cheese, but it has won a place in the commer-

Co-operation Nets Big Returns. So successful has this co-operative enterprise become that during the year 1912 \$524,718.61 worth of cheese was sold at a price of at least 1½ cents per pound above the market. The standard prices here are Eastern prices to \$2,211,004 pounds of commercial to \$2,211,004 pounds of commercial to \$2,211,004 pounds of commercial to \$2,210,004 pounds of commercial the industry, with an average of 22 patrons for each factory, just an even structing the plant, and since then the inspection department and the inspection department a

Where a ton of Cheese is Made Every Day.

word "co-operation" for "inven-| but the Pacific Ocean) and all in Tillthe amook County. tion.

tion." Some 18 years ago one Peter McIn-tosh instituted the first stock com-pany factory and after three or four years of futile attempt to "corner" the cheese market, and at the same time to corner the dairymen, he failed. Then a four hardy ploneers among when nor less than pure, fuil cream cheese, but it has won a place in the commer-clal world of the Pacific Coast that "Elgin" has for butter in the effeto East. The co-operative idea is the evo-lution growing out of necessity and as-sisted by a geographical isolation of the community where it is made. Co-operative idea fight eturns. So successful has this co-operative So successful has this co-operative

the past season of a sugar of milk factory, where the whey from one of the factories, the Maple Leaf, where cribe this type as resembling an In-lian cance, from the keel-shape and dian cance, from the keel-shape and the turned-up tail. The drake's two more than a ton of cheese is made feathers turn over into a short The familian cry "quacks" is daily, is now being converted or man-ufactured into sugar of milk, the first factory of its kind crected west of the Mississippi River. The whey contains about 4 per ceut sugar. The makers of this valuable medic-inal sugar largely used for baby food url. tered only by the female. of the male is more of a c. uckle and is not at all loud. The Pekin is the com-mon fowl of China. Its origin is re-

motely connected somewhere in the evolution of the wild duck. It is sup-posed as in the history of other races inal sugar, largely used for baby food, promises to rival the pork industry, as 7c per hundred pounds is the conthat it is probably the white variety of a race which when first domesti-cated, broke up into various colors. The tract price now being paid for this whey by a stock company, an offshoot of the sugar of milk trust, and a moveplumage is soft and more downy than that of other varieties. The selection of a plant should be ment is now on foot to make this plant co-operative.

Deposits \$118.50 Per Capita

nade with considerable care. made with considerable care. The conditions should be favorable and one should be near a good market. It seems to be the general opinion that a pond or stream is necessary to raise ducks successfully. However, this is not necessary, although some breeders consider it is advisable to have a The commercial importance of this o-operative industry was recognized a year or two ago, when a railroad was built to it and now the industry has the advantage of competition by rail and water transportation, and lest the thought should prevail that these people are leading a hand-to-mouth existence, let me add that the stream of water accessable for the breaders as fertility is likely to be much better, resulting in the ducklings last census gave the population of Tillamook County as 6226, and the last bank reports made to the State Bank being much stronger and more vigor-ous. Some plants are successfully op-erated without any water, except that Examiner showed deposits of \$756,-100,03, or \$118.50 on deposit in the county banks for every man, woman thich is placed in the drinking vessels Mr. Rankin for years has had no pools and child in the country and this is practically the only developed industry. The co-operation germ in Tillamook seems to leaven the whole lump of

Impatient operators will at times at-tempt to assist them. This is a serious mistake, as in the majority of cases more harm is done than good. Duck-lings should be allowed to take their time in working their way out of the shells and assistance should not be The cry given unless it is found that the ducklings cannot free themselves. A great deal of the trouble arising from poor hatches can be traced directly to improper care and feeding of the breeders. Breeding ducks should have an abun-dance of green food daily. The same brooder that broods the

young chicks will take care of the dpcklings successfully. Allow them to remain at least 36 hours in the incu-The bator before placing them in the brooder. Before placing them in the brooder prepare it by placing chaff or pint straw on the bottom. Place a small

fountain containing water in one cor-ner and have it so arranged that they can only place their bills in the water and not their bodies. The ducklings should be watched and taught the way to be under the hover and once the was is acquired there will be no trouble. Keep the pens clean both Inside and out, as the welfare of the ducklings depenus on this Provide plenty of shade.

Variety, of Food Is Need.

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heavy ration is fed to withstand the drain of laying. Robinson gives Weber Bros', ra-tions as follows: First three weeks, corn meal, one part; bran, one part; low grade flour, one part; dry bread (ground) and rolled oats, one part; add five per cent of beef scraps, a little grit, and a little cut clover or alfalfa or cut green rye. Mix this dry, then moisten with water and mix to a doughy consistency. Feed five times a day. Water at each feeding. From the third to the eighth week the above ra-tion is modified to corn meal, one part; bran, one part; green stuff, one-and-a-half parts; green stuff, one-and-a-half parts; heef scraps, one par imes a day.

Rations Are Changed.

From the eighth to the 11th week, ducklings for market are fattened on corn meal, three parts; low grade flour, one part; beef scraps, three-quarters part; about three per cent of oyster shells and grit, with occasionally a lit-tle green stuff. Those saved for breeders are fed corn meal, three parts; bran, three parts; low grade flour, two parts; beef scrap, one part; (root) vegetables, one part: green stuff, one part; with about one per cent of grit, and a little sait. About once a week oue per cent of ground charcoal is added. The cent of ground charcoal is added. The mash is fed morning and evening about four quarts to every ten large ducks, and when ducks are laying heavily, they should have at noon shout one of cracked corn to every 13

The ration as used for the youngest ducks contains a greater variaty of in-gredients, because these growers could only get limited quantities of stale bread and of rolled oats at prices which made them economical foods, and was judged best to use these for youngest ducklings. The regular and it of grit and shell was necessary, with the ration as fed after the eighth week, because of small proportion of bran. Whether it is better to omit bran and use grit and shell is doubtful. The period in which this ration was used