Science Applied to Dairying.

Allowing ten cows an hour to a milker, of the century it is estimated that there which mears lively work, it requires the is one milch cow in the United States for continuous service of an army of 300,000 every four persons. This makes the total men, working ten or twelve hours a day number of cows about 17,500,000. They throughout the year, to milk the cows are unevenly distributed over the kept in the United States. According to country, being largely concentrated in these figures compiled by the depart the great dairy states. Thus, Iowa ment of agriculture, there are five times | leads with 1,500,000 cows, followed by as many men in the army of cow milkers New York with almost as many; then as there are in the army of soldiers who Illinois and Pennsylvonia with about are putting a girdle of the Uncle Sam 1,000,000 each. The states having over

of the category of agricultural pursuits Indiana. Texas is credited with 700,000 into that of manufacture. It is now cows, but very few of them are dairy one of the principle industries run large- animals. In the Middle of Eastern ly on the co operative plan. The effect states the milk product goes very large of the establishment of cheese and but ly to the supply of the numerous large ter factories, comparatively new in kind, towns and cities. In the Central West is to transfer the making of butter and and Northwest butter is the principal cheese from the farm to the factory. dairy product. Originating in this country, although now extensively adopted in others, the general plan may be rightly called "the N. L. Knighton to W. H. H. Cary, lots American system of associated dairy- 3 and 4 of block 4, Tillamook City. ing." It constitutes one of the notable Jane P. Patterson to N. McMillan, deed and important landmarks in the progress to correct description of former deed. of dairying during the present century.

The early cheese factories and cream- Nixon, various tracts. usually extended into new territory, Olean Land Co. cheese. The cow owners and producers and lots 2 and 3 of sec. 19, tp. 2 S, R. 8 of milk co-operate and share, upon any W. agreed basis, in organizing, building or U.S. to Leonard Crenshaw, S 1/2 of Ne renting and refitting, equipping and 14 and lots 1 and 2 of sec. 2, tp. 2 S, R. 8 managing the factory and disposing of | W. its products. The farmers interested as U.S. to Henry Ward, Sw ¼ of sec. 26, joint owners, and all who contribute tp. 2 S, R. 8 W. milk or cream, are called the patrons. U.S. to Martha Pike, Nw 1/4 of Ne 1/4, The operations are managed by a com- S 1/2 of Ne 1/4 and Ne 1/4 of Se 1/4 of sec. 8, mittee or board of directors chosen by tp. 1 N, R. 9 W. and from the patrons. If the business U.S. to Theodore Stockman, N 1/2 of is large enough to warrant the ex- Nw ¼, Sw ¼ of Nw ¼ and Nw ¼ of Sw pense, the immediate supervision of the 4 of sec. 25, tp. 1 N, R. 8 W. concern and all its interests is intrusted U.S to Louis Peterson, Nw 1/4 of sec. to a single manager employed by the 32, tp. 1 N, R. 7 W. board. In a factory of this kind all ex U.S. to Lathern E. Smith, Ne 1/4 of sec penses are deducted from the gross re- 32, tp. 1 N, R. 7 W. ceipts from sales and the remainder is U.S. to George Shotwell, S 1/2 of Se 1/4 divided pro rata among the patrons np- of sec. 3 and N 1/2 of Ne 1/4 of sec. 10, tp. on the basis of raw material contributed 2 S, R. 8 W. Another plan is for the plant to be owned U.S. to Thomas M. Stark, Ne 1/4 of by a joint stock company, composed sec. 22, tp. 1 N, R. 7 W. largely, if not wholly, of farmers, and U.S. to Edmond Bergeson, Ne 1/4 of milk or cream is received from any sat- sec 35, tp. 1 N, R. 7 W. isfactory producer. In this case interest U.S. to Alphous D. Laboute, Nw ¼ of on the property or capital is usually al- sec. 35, tp. 1 N, R. 7 W. lowed and included in the currant ex- U.S. to George D. Johnson, Ne 1/4 of sec. penses. The management is otherwise 34, tp. 1 N, R. 7 W. the same; the stockholders receive a U.S. to Jacob H. Kingsley, Se 1/4 of sec. fixed rate of interest on their investment 34, tp. 1 N, R. 7 W. and the dividends to patrons depend up- U.S. to James H. Johnson, Sw ¼ of sec. on their deliveries of milk or cream and 34, tp. 1 N, R. 7 W. the fluctuations of the market for the U.S. to Herman Quick, Nw 1/4 of sec factory products. The proprietary plan 34, tp. 1 N, R. 7 W. is also common, being managed much U.S. to George Goodman, Nw 1/4 of like any other factory; the proprietor or sec. 33, tp. 1 N, R. 7 W. company buys the milk or cream from U.S. to John F. Bryan, Se 1/4 of sec 33, the producers at prices mutually agreed tp. 1 N, R. 7 W. upon from time to time and assumes all the expenses, risks and returns of the 33, tp. 1 N, R. 7 W. business. Another way is for the fac- U.S. to Warren S. Covill, N 1/2 of Se 1/4 tory, whether owned and managed by a and N 1/2 of Sw 1/4 of sec. 28, tp. 1 N. R. company of farmers, probably them- 6 W. selves patrons, or by outsiders, to bear U.S. to Lewis Kaedel, Se 1/4 of sec. all expenses, make and sell the butter 35, tp. 1 N, R. 7 W. and cheese at a fixed charge per pound U.S. to Daniel A. Robey, Sw 1/4 of Se 1/4, and divide the net proceeds of sales as on E 1/2 of Sw 1/4 and Se 1/4 of Nw 1/4 of sec. the purely co-operative plan.

to that of manufactures. Farm made and S 1/2 of Ne 1/4 of sec. 25, tp. 2 N, R. 8 cheeses are hard to find anywhere ; they are used only locally, and make no impression upon the markets. In the middle of the century about 100.000,000 W. pounds of cheese was made yearly in the United States, and all of it in farm dairies. At the close of the century the aunual production of this country will be about 300,000,000 pounds and 96 to 97 of this will be made in factories. Of these establishments, there are nearly 3.000, but they vary greatly in compacity, and many are very small. New York and Wisconsin each has a thousand. The former state makes nearly twice as much cheese as the later, and the two together produce three-fourths of the entire output of the country. The other cheese making states, in order of quantity produced, are Ohio, Illinois, Michi gan and Pennsylvania; but these are all of sec. 22, tp. 2 S, R. 7 W. comparatively unimportant. A change observed as taking place in the factory sec. 32, tp. 2 S, R. 7 W. system is that of bringing a number of factories previously independent into a sec. 28, tp. 2 S, R. 7 W. combination, or under the same man-Wheeler, E ½ of E ½ of sec. 24, tp. 2 S, agement. This tends to improve the R. 7 W.; also various tracts. quality and secure greater uniformality in the product, and often reduces cost of manufacture, all being decided advan- 2 S. R. 7 W. tageous. More than nine-tenths of all cheese made is of the familiar standard R. 7 W. variety, copied after the English Cheddar, but new kinds and imitations of for-eign varieties are increasing. The cheese Se 14 and Se 14 of Se 14 of sec. 13, tp. 1 made in the country, with the small im | S. R. S W. ance of less than four pounds to every person; but as 30,000,000 to 50,000,000 to 50,000 pounds are still annualy exported, the per capita consumption of cheese in the United States does not exceed 3½ pounds per annum. This is a very low rate, much less than in most European counmuch less than in most European coun-

The cows in the United States were L. D. Ackley to M. F. Leach, 20 acres not counted until 1840, but have been in tp. 1 S, R. 9 W. since enumerated for every decennial census. It has required from twenty- of Sw ¼ of sec. 4, tp. 2 S, R. 9 W. three to twenty-seven cows to every 100 of population to keep the country supplied with milk butter and cheese and provide for the export of dairy products. Ne 14 and N 1/2 of Nw 1/4 of sec. 16, tp. 1 The export trade has fluctuated much, S, R. 7 W.

but has never exceeded the produce of 500,000 cows. With the closing years brand of imperialism around the globe. 500,000 each are Wisconsin, Ohio, Kan-The dairy industry is fast passing out sas, Missouri, Minnesota, Nebraska and

Real Estate Transfers.

W. S. Runyon, by admin., to Richard

eries were purely co-operative concerns, Richard Nixon to A. J. Vantine, quit and it is in this form that the system has claim deed, various tracts; same to

whether for the production of butter or U.S. to Louis Oestreich, Se 1/4 of Nw 1/4

U.S. to Keneth McRay, Ne 1/4 of sec.

3, tp. 1 N, R. 9 W.

Michael Slattery to Delos A. Blodgett, Cheese making has been transferred bodily from the realm of domestic arts

Michael Slattery to Delos A. Blodgett, S ½ of Nw ¼ of sec. 30, tp. 2 N, R. 7 W,

> Patricia F. Brown to Nelson P. Wheeler, W 1/2 of W 1/2 of sec. 24, in tp. 2 S, R. 7

> George A Barton to Nelson P. Wheeler, E 1/2 of Ne 1/4 and E 1/2 of Se 1/4

of sec. 30, tp. 1 S, R. 7 W.

U S. to Sarah Bell, E 1/2 of E 1/2 of sec. 22, tp. 2 S, R. 7 W.

Henry Gross to A. W. Severance, Sw 1/4 of sec. 34, tp. 2 N, R. 7 W.

Walter Madden and wife to Luvina E. McGrew, various tracts.

Geo. Williams to Chas. Kunze, 42.75 acres in the Quick D.L.C.

Horace Holden to B. C. Lamb, tract in sec. 25, tp. 1 S, R. 10 W.

U.S. to Eva Messner, Se 1/4 of Ne 1/4 and Ne 1/4 of Se 1/4 of sec. 30, tp. 2 S, R. 7 W. U.S. to Mary E. Klyver, E 1/2 of W 1/2

U.S. to Christian Zimmerman, Ne 1/4 of

U.S. to Harry Starr, W 1/2 of W 1/2 of

Christian Zimmerman to Nelson P.

Philip Zimmerman to Nelson

Christian Zimmerman to Nelson P.

Wheeler, W 1/2 of W 1/2 of sec. 28, tp. 2 S,

Charles L. Granton to Duncan Brewer

C. & E. Thayer to Curtis Johnson, S 1/2

Robert Hicks to D. A. Blodgett, Se 1/4 of sec. 31, tp 2 N, R. 7 W.

COST! ALG



\$20,000 WORTH

Of Extra High Grade Clothing, Dry Goods, Shoes, Hats, Men's Furnishing Goods, Ladies' Jackets, Capes, Tailor Made Suits, Shirt Waists, Millinery and Parasols,

MUST BE CLOSED

In 30 days at Cost or less than Cost.



Owing to our limited quarters, which is impossible for us to display our stock and to wait on customers in a business way, we have decided to close out our entire stock, and if satisfactory arrangements can be made for a large store building, we shall re-open again next fall, with the finest and largest stock ever brought to Tillamook.

NOTE THE FOLLOWING CLOSING OUT PRICES:

145 BOY'S SUITS. Sizes from 12 to 20. No shoddy goods. Made of Clay Worsted, Mixed Cashmere and Fine Thibet. A bargain at \$5.00 and \$6.00 Choice per suit, \$3.15.

185 BOY'S SUITS, strictly all Wool, Oregon Cashmere. Sizes from 12 to 20. Worth \$7.00 and \$7.50 while they last. Choice per suit, \$4.90. 165 EXTRA HIGH GRADE SUITS made of Albany, Salem and Brownsville Woolen Mills, in sizes from 12 to 20. Well worth \$10.00 per

suit. Choice of the lot, \$5.90. 150 BOY'S FANCY WORSTED FINE CLAY SERGES and FANCY MIXED. Prices, \$4.90, \$5.50, \$6.00, \$7.50 and \$7.90 per suit. A bar-

gain at double the price. 120 MEN'S ASSORTED SUITS. Some all wool, Blue Thibet, and mixed goods. Worth \$6.50 and \$7.50. Choice \$3.90 per suit.

85 MEN'S SUITS. Extra heavy beaver, blue Vaquina cloth, cheviot, and meltons. Worth \$7.50, \$8.50 and \$9.00, choice per suit, \$4.90. Here is a snap for you.

100 EXTRA GOOD OVERCOATS. out for nearly half the former price.



285 SUITS FINE CASHMERES, clays, fancy black and blue, brown and mixed colors. The lowest price suit in the lot is \$8.50, and some of them are worth up to \$12.50. Take your pick

for the small sum of \$5.90 per suit. 200 SUITS VERY FINE WOOLEN AND WORSTED. Worth from \$10.00 to \$13.50. They are a snap at the regular price. To close them out quick, \$6.90 per suit.

360 EXTRA FINE DRESS SUITS and among them are Prince Albert Suits, Fine Black Frock Suits, Sack Suits, square and round cut, blue double breasted suits, and some fancy mixed at prices from 1/3 to 1/2 less than they have formally been sold for.

250 PAIRS ALL WOOL AND WORSTED PANTS, just as cheap as you have to pay for ordinary cotton pants.

220 CHILD'S KNEE PANTS SUITS. To close out from 1/3 to 1/2 below the regular prices. Our entire stock of MEN'S SHOES to close out

from 1/4 to 1/2 from its former prices. 200 MEN'S GOLF DRESS SHIRTS. Regular, 65c., 75c. and 85c. Choice, 5oc. each.

150 DRESS GOLF SHIRTS, \$1.00 and \$1.15, to close out 65c. each.

All our high grade Standard, Victor, Silver and Perfect White, Colored, Laundried and Golf Dress SHIRTS. Regular, \$1.25 and \$1.50 shirts. To close out 90c. each.

All our latest styles, 3 and 4 ply linen COLLARS. Worth 15c. and 2oc. Choice, 1oc. each.

The very best CELLULOID COLLARS, 2 for 15c.

Men's extra heavy Jersey ribbed Underwear. Regular 50c., 65c. and 75c. Value 35c. each. Extra heavy half wool 40c. each. Extra heavy good quality wool double breasted and double back Underwear, 62 1/2 c. each. Extra high grade Swits Conde ribbed Underwear. Worth \$1.50. To close 75c. each.

100 Laundried Pucale Shirts. 65c. and 75c. values. To close 30c. each.

1,500 yds. Challico, Lawns and Dimities ; worth 8c., 9c. and 10c.; to close out, 5c. per yard. 1,000 yds. French Follard. and French Organdies, regular 25c. goods; to close out, 121/2c. per yard. 800 yds. Worsted Dress goods; worth 18c., 20c. and 25c. ; to close out, 121/2c. per yard. 65o yds. of Fancy Worsted, solid colors, plaids, check ; regular 5oc., 65c., 75c. and 85c. ; choice of the lot 4oc. per yard.

1,000 yds. very high grade and the very latest novelties of Fancy, Plain and Figured Dress Goods, 42, 44 and up to 58 inches wide. Regular \$1.25, \$1.35 and \$1.50. To close out at 85c. per yard. 250 yds. of colored silk plushes at 35c. per yard.

50 Extra high Grade JACKETS, advanced fall style, satin and silk lined, regular \$15, \$16.50 and up to \$22.50. Choice, \$9.90 each. Call at once and get first choice.

280 LADIES' and MISSES JACKETS, ranging in prices from \$1.00 to \$10.00, to be closed out at a sacrifice.

All our CHILDREN'S JACKETS, Ladies' and Misses Golf, Plush, Cloth, Astrican and ilk CAPES. Ladies' Tailor Made SUITS, Skirts, Millinery and all our Shirt Waists and the remainder of our Mackintoshes to be closed out below cost.

Remember the stock must and will be sold. Call and get first choice as the goods are moving out fast.

Yours for bargains,

R. JACOBSON

Store Next to P.O.

TILLAMOOK, OREGON.