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WHAT IS PROPER PASTEUR-IZATION OF MILK?

A raw beefsteak and a bettle of raw milk are two of the finest food substances but it is not safe to consume either of them in that condi-

We all understand that raw beef steak should be made safe by cook ing but have not all come to realize that precisely the same sanitary reasons which deter us from serving raw beef steak to our children should prevent us from giving them raw milk. Raw milk should be made safe by application of heat.

Fortunately we like the flavor of cooked meat but unfortunately we do not like the flavor of boiled milk Therefore the home treatment of raw milk so as to make it safe and at the same time preserve its delightful flavor is a difficult under taking.

Close observation has shown tha the cooked taste begins to appear when milk is held for some time a or above 145 degrees P brenheit Accordingly the problem of prepar ing a safe and palatable milk is onof determining the proper exposurat or below 145 degrees F. required to make milk entirely safe

The studies of Doctor Theobal-Smith of the Harvard Medica School, of Professors Russell and Hastings of the University of Wilconsin, and Doctor M. J. Rosena of the U. S. Health service have al agreed that milk is made safe h holding it at 140 degrees F, for fif-

Because in the heat treatment o milk we are safeguarding huma life, it is customary and desirabl to heat milk to at least 142 degree F. for at least thirty minutes thu giving a margin of safey of 150 pe cent. Such heat treatment will un questionably destroy any diseas germs which may have found thei way into it and will render the mill

CHEESE BUYER APPROVES NEW GOVERNMENT METHOI

That the work of the United States Department of Agriculture is improving the methods of many facturing Swiss cheese has been sur cossful was shown not long agwhen one of the largest buyers of this kind of cheese in the countr made the statement to the chief o the dairy division that he bough all the product made in this wa that he is able to obtain. He addethat he considers Swiss cheese mad in this way the finest made here Another evidence of this man's preference is shown by the fact that b has hired the Government man who was in charge of this cheese wor in the field and has made effort to get another man engaged in thi

This Swiss cheese discovery con sisted essentially in a method o controlling the "eye" formation The organisms which produce thi effect were found, and it is now pos sible to introduce into the milk th specific cultures which produce th desired result instead of leaving largely to chance, as has been don for generations. It is now possibly to produce a much higher percentage of the best quality cheese.

WINTER APIARY LOSSES AMOUNT TO 12 PER CEN

The winter_loss suffered by bee keepers in the United States, as cording to investigations made b the Department of Agriculture amounts to 12 per cent of th swarms. The conclusion of the in vestigators is that any industry which can stand a loss of 12 per cent of all animals in it can prob ably be made much more profitable by removing the case, which is pos sible to a considerable extent. This winter's loss is the largest loss suffered by honey producers, but it is not so discouraging as losses from diseases, as a disease often menaces

the entire apiary. The department has studied the question of proper temperature and other environmental conditions of the hive in the winter and has published information which makes it possible to cut down the great loss Many beekeepers have availed themselves of this information, but the great winter losses of bee population will not be much reduced until more persons in the vusiness make use of what is known about management. The man who keeps up with the newest information is the one who will make the greatest profit from his bees.

An extension agent in Virginia called on the specialist in rural engineering for advice in the case of a woman who wished to install running water in her home. received by the United States Department of Agriculture states that after a survey of the premises it was found that the housewife was walking 140 miles per year and expending enough energy in lifting water to do the work of two horses in plowing 11 acres of land. A small hydraulic ram, overhead storage, kitchen sink, and waste pipe were purchased for \$49, which put running water into the kitchen.

Read the home paper.

O. A. C. SILVER JUBILEE OF SMALL VOLUME FARMING CLASS OF '99 TO BE HELD JUNE 6 AND 7

heir alma mater and renew old as-

Twenty of the 30 living members the class have already declared they will be there rain or shine. ohn Aldrich is coming all the way rom Lincoln, Nebraska. Fred Edvards says he is going to go if he as to walk all the way from eastrn Oregon. J. A. Van Groos is class nanager, assisted by Mrs. J. R. Cooley of Cottage Grove, Mrs. J. T. Wiley of Portland, Fred Edwards Beard of Corvallis. These '99-ers are corking hard for a 100 per cent reteach, Madison, Wis.

The drive now on to get the enthe Golden Jubilee will be expects to attend hat also.

OW-TEST RECORDS SHOW VALUE OF PUREBRED BULLS

A tabulation has just been comred dairy bulls were compared with the records of their dams. The verage yearly butterfat production f the dams was 309 pounds, and \$2000 and \$3000. hat of the daughters 313 pounds. The daughters excelled the danger ith a margin of only 4 pounds of utterfat a year, but the fact that dams at all speaks very well for the class of purebred dairy bulls that is being used in the cow-testng association herds from which hese records came. In this connecion, estimates show that the averge butterfat production of milk ows in the United States is only 60 pounds annually.

The records of the dams were production of butterfat. These five roups averaged 100, 200, 300, 400 he third group produced 9 pounds ties of shade trees."

The Department of Agriculture. The daughters of the fourth group through the Office of Foreign Seed produced 26 pounds more butterfat and Plant Introduction, secured pounds less butterfat than their throughout the country. As a result

From these figures we may conbetter and still better bulls are the northern Great Plains region. needed to maintain and to increase production.

y given at this time, and new tile ditches between rains will help:

MAY CAUSE LOW PROFITS

Many Oregon farms who fail to The Silver Jubilee reunion of the make money fail because their total lass of 1899 will be held June 6 voume of farm business is too small, meadow at this time will greatly inlass of 1899 will be held June 6 according to cost production studies crease the coming hay crop. Broadthose who finished college a quarttension service. Gross receipts are so acre is the usual application. It is light that overhead and other expens- often advisable to leave a strip unes eat up all the profits.

Treated in order to county, according to a report received by the United States Departes eat up all the profits.

281 dairy farms, as determined by farm management surveys in 1920-22, totaled only \$2863. These were market varies in price. It should ing is one of the things that we will thereafter on the first of each month averaged size farms and the results always be purchased on the basis make progress on in Kentucky this proportional to the number of inch-

"Now from these gross receipts," Mr. Besse explains, "all cash ex- ing 95 per cent. penses of production and operation Fossil and Pre ssor Harry and all interest on borrowed capital turn of the class. The member left for interest on his investment pink and the pink spray applications, arthest away is William Henry and for his labor and the labor of Later sprays combined with cutting his family.

ire class together on the campus discouraging, there is very little ment station also uses sulphur dust will not be repeated until 1944 about them to depress farmers, against milder in dry most be received. about them to depress farmers, against mildew in dry weather with They represent averages. When all excellent results. elebrated. Fred Edwards says he the facts are known about the individual incomes it is clear that many of the farmers were making nice profits, while others were losing morey.

"Analysis of the individual records shows that while 90 of these dairymen had a gress income of less deted by the Bureau of Asnimal than \$2000 per year, 58 of them ndustry, United States Department made from \$3000 to \$4000 gross Agriculture, in which the recincome, 26 made from \$4000 to ords of 384 grade daughters of pure \$5000 gross income and 30 made gross incomes ranging from \$5000 to \$14,000 per pear. The remaind-er, 67, fell into the class between

"The farmers with the gross income of less than \$3000 had at best a narrow margin left for profit after all expenses were deducted. hey excelled such high-producing Farmers falling under that class may well arford to adjust their operations, in order to increase net farm income.'

SOUTHWESTERN TOWN TRIES ELMS INTRODUCED BY U. S.

One of the benefits from the introduction of plants from all parts of the world by the United States rranged in five groups according to Department of Agriculture is emphasized in an article published in roups averaged 100, 200, 300, 400 a local newspaper of Carlsbad, New and 500 pounds respectively. The local park commission, "The local park commission," says the paper, "is deeply inroup produced 74 pounds more debted to the Bureau of Plant Inoutterfat than their dams . The dustry for the interest and assistlaughters of the second group pro- ance which that bureau has shown luced 55 pounds more butterfat in helping this section of the 'treehan their dams. The daughters of less' southwest in providing quanti-

han their dams. The daughters of seeds of the Chinese elm some years 86 ago and has distributed many trees of this effort, it may now be said that the species is fairly established clude that good purebred bulls are in the United States, where it promneeded for every dairy herd and lies to become a popular and valuthat purebred bulls selected from able shade tree in many regions. very high producing ancestry are For it is a singular feature of this required when the production rec. plant, whose native home is in norords of the dams are above 300 thern China and Manchuria, that it pounds of butterfat a year As the succeeds equally well in the arid average production of herds advance southwest, the Eastern States, and

New Ladder Invented

An Illinois inventor has patented a Attention to drain outlets is usual- stepladder that can be converted into y given at this time, and new tile a straight one by swinging the sec-systems for spring planned. Digging tions into alignment and fastening

FARM POINTERS

(From O. A. C. Experiment Station)

Top dressings of gypoum on the treated in order to compare tha The average annual receipts of benefits of the gypsum application.

Landplaster as sold on the Oregon farming, says R. S. Besse of the ex- tained, Landplaster analyzing 80 per from Wayland Rhoads, field agent cent calcium sulphats is worth only four-fifths as much as that analyz-

must be deducted. The balance rep- Grimms and Rome apples and d'An- tions for membership in the "Better essents the amount the farmer has jou pears, the best control is the pre-"While these figures look a bit foliage clean. The O. A. C. experi-

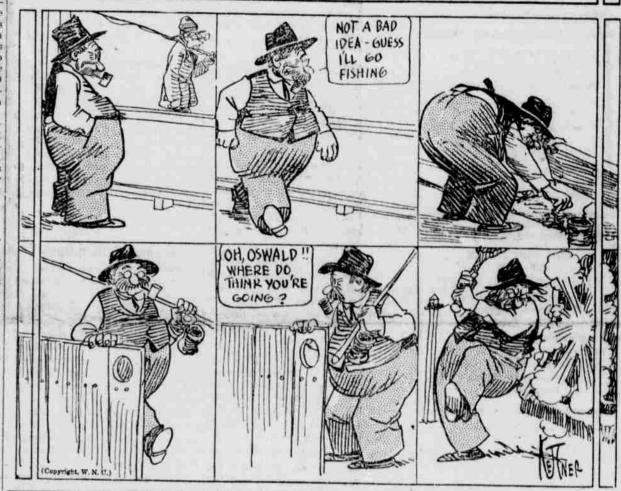
In the milk ultilization campaign carried on in Benton County, Iowa, during 1923, attent a was largely directed to the home consumption of milk, but 14 townships were interested in cheese-making as a phase of milk ultilization. About 900 ment of Agriculture.

"'Better sires and better feedin animal husbandry of the Univerof livestock raised. Eighteen countur-clothing, house-painting, ties were represented.

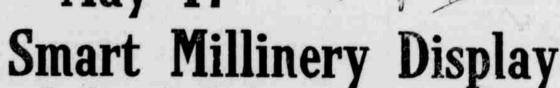
Weather and Umbrellas

The business of the umbrella dealer is, of course, to anticipate the demand for his wares in ti provide his patrons with protection. A report received by the Weather Bureau of the United States Deport pounds of cheese were made in the ment of Agriculture states that an umbrella dealer, was is thedewith having made the dollar famous localit, had ordered deliveries in bulk during the autumn; but on seeing a diagram of normal precitation by months ordered deliveries fairly representative of that type of or percent of calcium sulphate con-year." This statement in a letter es of normal precipitation. Having a 30-day arrangement for remittances, he has since usually transacted business on the manufactursity of Kentucky, to the United er's capital, has had a better op-States Department of Agriculture, portunity to store his surplus stock For powdery mildew of Jonathans, was accompanied with 270 applica- and to follow styles, and has filled in the dry summer months with parasols. Through a period of years Sires - Better Stock" campaign the climate can usually be foreseen Later sprays combined with cutting Each of the 270 persons had signed in a general way if the specific out of mildewed shoots will keep the a piedge that he would use pure weather can not. The umbrella season is no better defined in the country's weather records than are the countless other seasons

Our Pet Peeve



COMING TO Umatilla Saturday May 17



The millinery section of the Hanger and Thompson Company, of Walla Walla, are bringing to the people of Umatilla and surrounding country, their first real opportunity to see this season's smart new hats, for street, sports or formal wear. Mind you this is sometthing new, for a large department store to bring their smartest creations to your community, and here's the

Simply overstocked that's all. Due to a backward buying season. From NINE A. M. TO NINE P. M. these chic models will be on display at the

Earl Brownell Store

Modish fabrics deelovp these new smart models, in straws or silks, crepes, a touch of lace, a sparkling pin, and chic ribbons trim the smarter shapes. A fascinating group for your approval at-UNUSUALLY MODERATE PRICES

> MILLINERY SECTION Hanger & Thompson WALLA WALLA, WASH.

OFFICIAL DESIGN OF THE OLD **OREGON TRAIL ASSOCIATION**



The design of the ox team and covered wagon symbolizes the spirit of the old west. It-typifies vision, encurance, hope, suffering and final ac-

complishment. Over the Old Oregon Trail from the Missouri river the covered wagons came and won an empire for the United States. The design is the work of Avard Fairbanks of the University