Research Seeks Better Alfalfa

Alfalfa seedlings are under certain varieties have meas- laboratories,

Much alfalfa seed is sold varieties are be recognized while growing tion can be positive. in the field much misunder. Dr McKee's work in alfal- lbs butterfat on 2x, 305 days fied seed is best because it Maryland, and Maine sta- what we had.

must come from a field that tions are cooperating. Variehas been inspected by disin-ties under study include Verterested officials, in Pennsyl- nal, Narragansett, DuPuits, vania supplied by the State and Williamsburg Dept of Agriculture.

urable and observable differ- and growth chambers Seed ditions. ling plants of some alfalfa recognizable under variety names but is while quite small, he points Rose, a ten-year-old Ayrshire not Certified. If particular out Others must be allowed cow owned by Masonic Farm varieties or mixtures could to flower before indentfica. Elizabethown, has a record

standing and some times fa identification is part of a downright deception could be project in which scientists at prevented, he believes. Certi- the New York, Rhode Island, wanted, we wouldn't like

Comparable observations of The value of improved flower color, time of flowerscrutiny for varietal differ- forage crop varieties may be ing, plant type, height, leaf ences at the Agricultural Ex- largely lost if varietal mix- color, coarseness of stem, periment Station, the Penn-mixture and hybridization disease infestation, spring sylvania State University are not controlled, Dr. Mc- vigor, and fall dormancy will All alfalfa seed look alike, Kee emphasizes Field trials, be made. In a fall manage-Guy W. McKee superinten such as those under way ment experiment, effects of dent of the Station Seed Ser- with alfalfa, are necessary to three cutting dates, Sept. 15 vice comments, but plants of verify evaluations made in 22 and 29, will be compared greenhouses, under varying climatic con

> Elmstone Major's Mary of 12,465 lbs milk and 518

> If we got everything we

Use Superior Sires Don't Cull Low Producers

The value of superior progeny- tested bulls in raising dairy herd production is demonstrated by a recently completed 35-year Holstein-Friesian breeding experiment, the U. S Department of Agriculture reports.

dairy cows will use to the of 617 pounds. herd average in a few geneof this finding, Milton II low-producing cows and their trials at USDA's Agricultur- Twenty-one cows produced at Research Center, Belts- less than 425 pounds of butto save the daughters of low- Culling all their daughters producing cows, if the herd would have removed 176 sires used are production cows that averaged 661 lbs.

un-culled, unselected cows Only sires were selected. All of dam production. heifers were raised and deappearance or producing ability. They were housed, fed, and managed uniformly during the entire test period.

Use of proven sires rebasis of comparison in this their production. herd) for the first five generations. The herd's yearly

ion characteristics from dam nation bulls, the highest producing whose genes will amplify the cows do not always have the production characteristics of highest producing daughters. the herd In the experiments only 15 that produced less than 650 rather than butterfat propounds of butterfat ranged duction.

Experiment records indi- in production from 200 to cate that production by the 900 pounds in their best progeny of low-producing year, with a group average

An estimate was made of rations if good transmitting the herd production that sires are used On the basis would have been possible if Fohrman, leader of the decendants had been culled. ville, Md, advises dairymen terfat during their best years proved. No important bene- of fat. The 215 cows that fit to herd production seems would have remained in the to result from culling these herd averaged 651 lbs. of daughters, he says, although fat. The theoretically - cullit is wise to cull their lowed herd actually outproduction mothers. This long-term experiment onstrating again that heifer covered eight generations of selection is not very effective when based on the level

The Beltsville Holsteins veloped, regardless of their are now among the highest producing unculled cows in the world. New experiments are underway at Beltsville to see if further improvement in herd production is possible. A search is being sulted in rapid improvement made also for breeding mein butterfat production (the thods that will increase

Some of the cows are being mated to the very best fat production increased fr- Holstein proved sires in the om an average of 530 lbs. US and Canada through per cow to 703 lbs in the artificial insemination. Forfirst five generations, but in- merly, the herd sires were creased to only 711 lbs. in limited to bulls at the Agthe last three generations. ricultural Research Center Transmission of product- or in nearby artificial insemi organizations. By to daughter is not always searching over most of North consistent, test records show America for sires, the USDA ed. Even when using proved scientists hope to find some

Another new experiment per cent of the daughters involves the use of the best attained the same product- sires of other dairy breeds ion class as their dams, to find out if cross-breeding There were 193 daughters will increase production in of cows that produced more the herd. Still another cathan 650 pounds of butterfat periment involves use of seeach during their best pro- lected progeny-tested bulls, duction year. These daugh- which are off-spring of the ters ranged in production Beltsville cows. In these exfrom 200 to 900 pounds, with periments, production coman average of 693 pounds. parisons will be made on The 194 daughters of cows the basis of whole milk



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