

The Future of the Dairy Cow in N.D.

Essay Which Won, First Prize Was Written by Griggs County Girl, Reprinted from Forum

the subject of "The Future of the Dairy Cow in North Dakota." Her essay was read before the association's recent annual convention in

Those who live on a mountain ave a longer day than those who live in the valley. Sometimes all we little higher. The highest standards of civilization and progress to-day have been attained only through the undying struggle of men who employed the greatest effort. To exert To control effort demands power. power and put forth effort are the fundamental stepping-stones of effi-

Our country, the leading nation of the world to-day, is lacking in efficiency. Let us begin at the very root of our problem which faces the state of North Dakota as well as the rest

Undernourishment of our children. which is the principal cause of the death of approximately 350,000, is the root of inefficiency. Reports of investigating committees state that there is at least one-third of our school children undernourished. Undernourished childhood results in stunted manhood. This fact was established when one-third of our young men failed to pass or equal standerds in the army requirements. Underdevelopment is due to the lack of the use of the proper foods. Experiments and tests made by colleges, experiment stations and other government offices have found with the highest merits, that the proper foods for normal development are milk and its products, butter, cream. cheese, condensed milk and ice-Milk contains the proper nutritive elements such as protein, Let us consider the farmer's rela-carbohydrates, fats and mineral tion o dairying. Our state is includwater. In like manner the products ed in that upper delta of alluvial

Miss Lillian V. Byington, 15-year-10f milk contain the proper elements Sutton girl, has been awarded in a perfect natural proportion for the \$25 prize offered by the North human consumption. If for no other Dakota Dairymen's and Buttermak- reason than just to build up our naers association for the best essay on tion and to develop the abilities of task undone, but there are other

After cropping and recropping our once fertile soil we soon learn that the plant food of our soll is no longer as plentiful as it was in early need to brighten our day is to rise a days. We can meet this problem of plant-food depletion best by the introduction of dairying in our state. The dairy cow replaces more fertility in the soil than any other branch of agriculture. For each 100 pounds with 59 cents for manure. When only butterfat is sold, the farmer has yet the skim milk which is a most valuable food for growing pigs. As the swine industry is increasing so will the dairy industry. Skim milk also is going to receive a more prominent place in the future as a winter feed for poultry. The excessive amount of protein will result in a larger yield of eggs. Thus the dairy cow in the future of our state will introduce and support diversified farming.

Diversified farming is progressive, practical and educational. former statements prove it progres sive and practical. create and stimulate than to destroy. It is educational for it creates a love in the young generation for home It is the young boys and ownership. and girls who are entering the calf elubs and associations to-day, and by acquainting themselves with the problems of to-day, that will encourage and develop the dairy industry. Theirs will be the ultimate solution. Thus the second point in the question of the dairy cow's future must be satisfied.

plains and includes the fertile soil Discover New Substance in the Soi which comprises our wealthy states just east of us. Dairying possibilitles are strengthened by the raising of alfalfa, clover and corn. The everincreasing number of silos is "the fore-runner of a new era in dairying.

Our climate cannot be excelled for our summers and winters are moderately temperate. The cool summer winds make it neither too hot nor cold. Our winters are never severe and with the constant erection of new and modern barns our state should soon be leading as a dairy country.

The ever-increasing miles of railroads mean the building of new towns and the growth of our cities Thus a market for our produce will created. Creameries are being built, condensed milk and chee factories will be established. The growing population demands an increase of dairy products. Of food expenditures last year, only twenty per cent was for dairy products. Authorities claim that this is only one-half the amount that should be spent Scholars are being educated to use more dairy products.

The number of dairy cows is steadily increasing, yet the price of products has not been injured. This is because the nation's population is growing faster than the cattle num-Milk and its products are man's most economical food. Therefore, he is willing to pay well for it.

North Dakota will have an enterprising and growing trade, for years to come helping to supply the European countries with condensed milk. Their loss during the war cannot be replaced for many years. partial explanations why dairying in North Dakota will be on a permanent and profitable basis.

Another reason which has no bearing on trade but has a place in the future of the dairy cow is the our own children the state of North fact that our state consists of that Dakota is too proud to leave this leave and nettonelity, of more than class and nationality of mankind. the Norwegians, Danes, Hollanders English, who have come from calrying countries and are well acquainted with its possibilities.

> Summing up the principal reasons why the establishment of the dairy cow is positive and certain we have (1) Dairy products, of which there will never be an over-production, is and mest economical man's best (2) Dairying is essential to the progress of a nation, establishing efficiency in childhood and supporting it in manhood. (3) Dairy ing produces a steady income with (4) A ready market is always waiting for milk and pro-(5) Dairying re-place: fcrducts. (5) Dairying re-places for-the purpose of aiding and tility of the soil. (6) The increasing the people in emergencies.

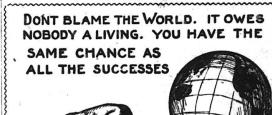
coveries in the science of soils has been made by experts of the U. S Department of Agriculture within the last year in the separation of a unknown substance which hitherto has been designated as ultraciay, a gelatinelike substance, very sticky and plastic when wet and having in the dry state the general appearance of resin. It appears to be a silicate of alumina, usually with some iron and traces of potassium, sodium, magnesium and calcium, whether ombined or merely absorbed being point not yet determined.

This ultractay is believed to be the principal factor in making the soil plastic, but when added to loos and incoherent sand in proportions Up to ten per cent, and the mixture made into briquettes and dried, it gives to the sand a crushing strength greater than an equal amount of Portland cement. The briquettes made with ultraciay, however, full to pieces when put in those made with Portland retain their form.

The discovery has an important bearing upon the physical properties of soils and is being studied in cooperation with the Bureau of Public Roads as a guide in adjusting the structure of concrete and other payments to the texture of the soil on which they are built.

stock sales and new pavilions afford s splendid channel to dispose of breeding stock. (7) Evolution of machinery places dairying foremost for cream separators, milking machines, auto trucks and electric power eliminates necessity of hired help. (8) Dairying demands co-operation and as this spirit is spreading widely over our state the dairy future is brightest of all industries. Dairying has been and will continue to be the backbone of the nation's agriculture. (10) Our state is comosed of that class of people who will take up this work, and the dairy cow will lead the procession as the North Dakota farmer marches victoriously along, proudly saying, "I envy nobody, and nobody envies me. My dairy cows keep, and comfort my family."

Valley City Times Record: According to the disclosures being unearthed by the legislative investigating committee it is becoming more evident that the Bank of North Dakota was conducted more as a clearing house for taking care of good nonpartisan banks and their adherthroughout the state-than for e of aiding and assisting





IS SAFE IN OUR BANK FROM FIRE OR BURGLARS OR YOUR OWN FOOLISH