

Corn products range from crayons and toys to antibiotics

DEKALB, II. — Another harvest season is rapidly nearing completion in the United States. The fruits of this harvest are instrumental in feeding some 4.2 billion people of the United States and around the world. When we see corn being delivered to elevators, loaded on ships for export or being fed to livestock, we may not realize there is a myriad of products made from corn.

Besides the corn flakes sitting on millions of breakfast tables every morning, corn provides raw products used in the manufacturing of industrial, food, drug and cosmetic items. These raw products include starch, dextrins, syrup, sugar, corn oil, steepwater and by-products used as livestock feed.

Industrial uses of corn products are extremely diverse. Starch is used in such products and processes as adhesives, dry cell batteries, cardboard, ceramics, twine, crayons, dyes, explosives, lacquer, paints, paper, photographic films, window shades, rock wool and many others.

Dextrin, a modified form of starch, is used in the

production of molded toys, mannequins, printing inks, metal ore processing, shoe polish, plastics, textiles and candles.

Corn syrup is used in leather tanning, dyes and inks, and even metal plating.

Corn sugar is instrumental in the production of commercial acids and chemicals, enzymes and fermentation products. It is also used in processes such as electroplating, galvanizing, dyeing and finishing textiles.

Corn oil is used in the manufacture of chemicals, insecticides, paints, rubber substitutes, rust preventatives, soaps and textiles.

Steepwater is useful to the pharmaceutical and chemical industry. Other by-products aid the fur cleaning industry, plastics and synthetic fiber manufactures.

Human food, drug and cosmetic products made from corn's major components are as varied as those used in industrial processes. Corn starch is found in such diverse products as antibiotics, baby foods, bakery products, chewing gum, ice cream cones, face and food powders, puddings, flour, food and drug coatings, canned fruit, pie

fillings, military rations, salad dressing, soups, powdered sugar, canned vegetables and yeast... just to name a few.

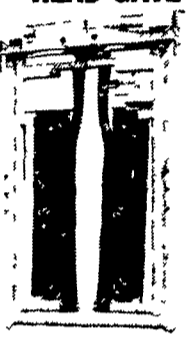
Beer, ale, non-alcoholic beverages, catsup, chocolate products, condensed milk, frozen or dried eggs, jams and jellies, various forms of fruits, ice cream, marshmallows, drugs, peanut butter, pork and beans, canned sweet potatoes, toppings and vinegar contain corn syrup and corn sugar. And, the list is several times longer than this.

Of course, two products derived from corn now receiving considerable attention are high fructose sugar and alcohol for fuel. We have seen continued expansion of these two industries in the past two to three years and, no doubt, will continue to see expansion in the future. Fuel alcohol production has been projected at one to four billion gallons per year by 1990. That will require from 450 million to 1.6 billion bushels annually. High fructose sugar from corn is now used in soft drinks and as dietary sweeteners and will, no doubt, see more uses develop.


Undoubtedly, the nation's corn growers have an impact on more industries than most of them, or others, know about.

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Nat'l Jr. Charolais Heifer Show is Jan. 18

HOUSTON, Tx. — Junior members chose to put their Charolais heifers in the limelight in Denver this year by designating the National Western Stock Show as site for the 1981 National Junior Heifer Show. This specific show will be held January 18, 1981, at 3 p.m.

This show will be dedicated in honor of James Volz of Elmore, Minnesota. Judge for the show is James C. Linthicum, Welch, Oklahoma. Total premiums offered are \$5,000.00.

The age classification for heifers is between January 1, 1979 and June 30, 1980. Entry deadline is November 15, 1980, and the entry fee is \$15.

Ownership requirements are as follows:

All heifers calved before September 1, 1979, must be the property of the exhibitor as of July 1, 1980.

Heifers calved after September 1, 1979, must be the property of the exhibitor as of October 1, 1980.

Ownership must be shown by delivery date. "Delivery Date" refers to "Date of Sale" on AICA registration papers.

Heifers may also enter the open Charolais Classes.

Number of classes will be determined after all entries are in; classes will be established with relatively equal numbers of entries with a maximum of eight classes.

Supplementary awards will include Champion Heifer Bred and Owned,

Reserve Champion Heifer Bred and Owned, State Group of Three Head, Junior Showmanship, Senior Showmanship, Best State Exhibit, Junior Herdsman of the Year, Exhibitor Traveling the Greatest Distance and State Exhibiting the Greatest Number of Heifers.

Entry forms will be mailed directly from AICA and are to be returned to AICA with a photostatic copy of the registration certificate in the exhibitors name.

Premium books can be obtained from the National Western Stock Show, 1325 East 46th Avenue, Denver, Colorado 80216, or call (303) 623-1166.

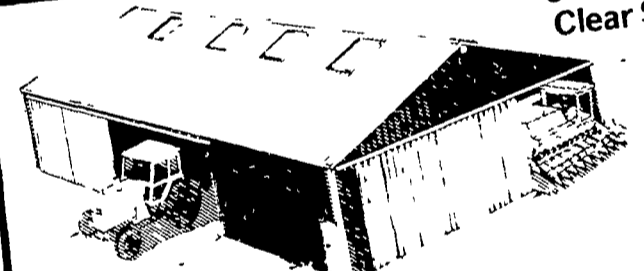
Additional activities for Charolais Juniors will in-

clude an AICJA Breakfast, January 19, Lunch and Skating Party, January 19, sponsored by Bauman Charolais Ranch and Boventure Cattle Systems. A membership meeting will be January 20, followed by a dance.

Inquiries may be directed to Judy Hill, AICA, 1610 Old Spanish Trail, Texas 77054, or call (713) 797-9211.



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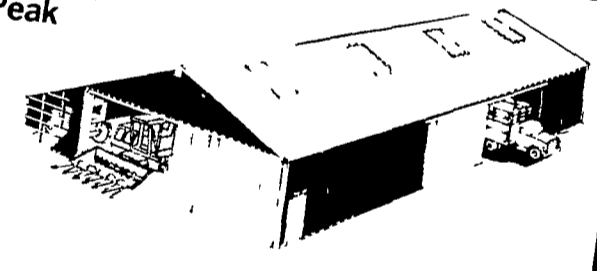
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