

Bigger Corn Crops Hinge On Industry, Chemists Say

Strides Made in Industrial Use of Products of Corn
Point Way to Larger Market

This is the last of two articles commenting on the corn situation and the possibility of growing more corn at a profit.

CAN we expect to create a larger market for corn by linking agriculture more closely with chemistry? The chemists say that we can and they have a way of translating their visions into everyday practice.

To suggest that there is any one, simple way to expand a market, is to offer a bold challenge. How are they going to do it? Why hasn't it been done? The chemist can answer because he has already started on the road to prove his claim.

When we think of markets for farm products we find immediately that there are two principal ones which have existed from the very beginning of time. One is the human stomach and the other is the animal stomach. Only in recent years has there been a third market and that's in the field of industry and manufacture. The possibilities of stomachs as a market is limited; neither man nor beast can consume more than a certain amount, but the market in industries is virtually unlimited. It has been growing steadily, thanks to chemistry, and the end of growth is by no means in sight. Then, too, an industrial market is better regulated and more stable for its needs can be estimated in advance.

An Assured Market

Consider for the moment what it would mean to the American farmer to have a known market for great quantities of staple farm produce; factories scattered throughout the country near the chief agricultural centers, taking excess crops and turning them into chemicals for use in industry. It would be an assured market and a growing one. We have some ideas already of what it would be like, for the industrialization of corn has been carried to great lengths and the manufacture of products derived directly from corn is now being conducted in eleven states near the source of the raw material. But the scientist wants to go even further.

The tie between agriculture and chemistry is more easily understood and its value more easily appreciated if one thinks of food products as so much cellulose, starch and sugar. Take farm staples apart and most of them yield one, or more of these chemical elements. And then we should consider livestock as individual unit factories making fats and proteins. Cellulose and starch, for example, enter into industrial use in huge quantities. Photographic film, and innumerable other products, are made of cellulose. Starch figures prominently in the textile industry where it is used as a sizing, and in the making of paper and adhesives. More than thirty industries use starch in one form or another.

The chemist knows all about this development because he is responsible for it and he visions it being carried further. He recognizes starch as a basic material with vast possibilities. He found the way to make it from corn and other agricultural products and he sees an expansion in its use which may ultimately make it more important in industry than in the aged stomach.

Expanding Uses

Two things will bring starch into greater use: first, expansion in the fields in which it is now being used, and second, the discovery of new uses. Manufacture of starch and other derivatives of corn has already grown to a point where from 75,000,000 to 85,000,000 bushels of the grain are used every year. The growth has been steady and the prospects for continued growth are excellent. At the same time, new uses are being developed for starch and chemists say that this basic material, already an essential in a great number of industries, will become equally important in others.

Low Cost Starch

With every step made by scientists and chemists in perfecting the process of starch manufacture so that costs can be lowered, the possibilities of its use become greater, for in practically all industry lower costs mean wider use and adoption in new fields. The chemist, therefore, is hard at work reducing costs through perfection of manufacturing technique and is always searching the horizon for discoveries which will unite new benefits with the old.

As said before, an extraordinary amount of industrial use of corn has already been developed. Similar efforts will be made by chemists to stimulate use of other agricultural produce. Surplus supplies of fresh eggs can be dried, industrial alcohol can be made from low grade grains, casein can be made from fluid milk. All these ways of utilizing products are being carried on, but as yet the ultimate possibilities have hardly been seen. The chemist believes it beneficial to encourage the development of any process which will turn surplus foods into other products for later use and so even the flow of production to balance with consumption and help to stabilize prices. He also believes that there are other practices not yet developed which will make possible varied use of a crop.

The agriculturist stands to benefit greatly from any work the chemist may perform to expand markets through the further industrialization of farm staples and the chemist even claims to see the possibility of producing foodstuffs just for industrial purposes to benefit both agriculture and industry. But the advantages will not come to the American farmer unless it is American grown products that are used.

Tariffs Needed

Here is a real threat because of an inadequate tariff.

With the exception of tapioca, sago and arrowroot, all foreign products which yield starch as well as the starches themselves are taxed on importation, but those exceptions are sufficient to offset the good derived from other tariffs. Tapioca and the other duty free products are grown in tropical countries, principally Java, where land and labor costs are extremely low, and they can be imported in unlimited quantities to supply industry with low priced starch.

The first step in any program to expand markets further through industrialization is, therefore, protection to insure that it is American corn and not Javanese tapioca that is affected. Chemical discoveries can be applied to any product no matter where grown but it is domestic foodstuffs that should be benefited and with a stopping of the leak in the tariff wall that would be assured.

Right now the chemist is busy trying to expand the industrial stomach and when he succeeds it will be due to his vision that agriculture and industry have much in common and that the tie between them cannot be too close.

DANCE

LADIES SOCIETY OF M. D. C.

TO BE HELD AT

OLD VILLAGE HALL


SECOND ST., LACKAWANNA, N. Y.

SUNDAY EVENING

MAY 17

Joe Lorenzo himself and his
Blue Ribbon King Orchestra
Admission 35c
Sandwiches Free

ESTABLISHED 1899
**EYES EXAMINED
BY APPOINTMENT
DR. WILLIAM J. COOK
OPTOMETRIST**



Hours: 9 A. M. to 6 P. M., except Sun days. Closed Saturdays at 12 Noon
Phone, Washington 5135
(only one office)
142 BROADWAY
Near Michigan Ave., Buffalo, N. Y.

CHARLES HERR SONS
COAL, COKE, SOFT COAL, ICE
and BUILDERS SUPPLIES
Office: 1240 So. Park
Abbott 1942-J

THIS YEAR TRY
Schwegler's
THOR-O-BRED
New Low Prices
Earn that extra profit with our super layers of big eggs. Every breeder blood tested. Hens with records to 296 eggs, 10 breeds. Write today for big FREE Catalog.
SCHWEGLER'S HATCHERY
212 Northampton, Buffalo, N. Y.

SUBSCRIBE FOR THE
LACKAWANNA NEWS

Great Faculty for Catholic School

Father Duffy Gathers Finest
Array of prominent educators
for summer sessions.

Rev. Francis P. Duffy, the famous War Chaplain, who led the 165th Infantry (Old "Fighting 69th" of New York) United States Army through all its engagements in France in 1917 and 1918 has assembled another army. This new army is made up of educators in place of soldiers. College presidents have replaced generals. Associate Superintendents act where once Colonels commanded and the buck private places has been taken by the youth of America. Father Duffy's greatest concern today as it was in 1918.

This year the Catholic Summer school of America celebrates its fortieth anniversary. Situated on the banks of historic Lake Champlain at Cliff Haven, New York, these educators will offer twenty six courses at the Fordham University Extension this year. The courses cover practically every major department of University training and will be given by professors as well known in education as once Father Duffy's associates were well known in the army.

Dr. Maurice E. Regalin, president of the new Jamaica Teachers College and head of the graduate division of educational measurements of Fordham University, will be the director of the sixty courses and will give a seminar in educational measurements.

Dr. Eugene A. Colligan, newly elected Associate Superintendent of Schools of the City of New York will lecture on history content and method. New York City has entrusted to Dr. Colligan the task of organizing its sixty-three junior high schools; one of the largest tasks in the history of American School systems. All courses will start on July 6 and end August 1, and will carry university graduate and undergraduate credit. Classes will be held daily, from eight until one o'clock. The afternoons and eve-

nings will be left free for the enjoyment of the unusual physical and social recreations afforded by the Summer school. The square mile of ground owned by the school includes an eighteen hole golf course, bridge path, tennis courts, private bathing beach, and forest walks of surpassing beauty. The Champlain Club, The Washington, and the New York provide social entertainment every night in their ballrooms.

The New York City headquarters of the Catholic Summer School of America is at 421 West 43d Street.

Draw Tight Line On Narcotic Sale

Against law now to get drugs
From one Physician while
Getting Treatment from another.

Two very important measures amending the Public Health Law have recently received the approval of the Governor, and are now in effect. They relate to the use of narcotics and were sponsored by Assemblyman Howard W. Dickey of the Sixth District of Erie County who was the author of the State's anti-narcotic law passed in 1927 and now being enforced in cooperation with the Federal Harrison Narcotic laws. One of these measures makes it a violation of law to possess pipes, lamps and other apparatus for the use of opium, whether making commercial use of the same or not.

The other makes it a violation of law to obtain habit-forming drugs from one physician while receiving treatment from another without disclosing the fact. These measures are regarded as advance steps in the battle being waged against the use of narcotics, which has been increasing at an alarming rate throughout the country, and have the endorsement of the medical profession as well as State and Federal authorities.

Mr. Dickey also introduced last year and this a bill modifying the Baines Fourth Offender Life Imprisonment Law. It was practically identical with the Sargent bill which passed the Assembly, but died in the Codes Committee of the Senate.

Training Camp for County Boy Scouts

Lackawanna and vicinity boys
to get working knowledge of
Camp house keeping this
Summer.

The annual Spring Training Camp for Scouters of the Erie County Boy Scouts will be held on Three Valley Nature Reserve, their 470 acre Camp grounds out in the Holland Hills, this next Saturday and Sunday, according to announcement by Deputy Sheriff W. C. Bliss, opening at 8:30 on the 16th and closing at 2:30 on the 17th.

The program provides the best sort of an opportunity for Troops to secure for their Scouters "improved knowledge of the technique of Camp housekeeping," a knack of real value to Troops carrying on with their boys the outdoor brand of Scouting.

All who have a part in the Camp will bring complete duffel, everything from tentage to food with cooking "gear." Camps will be pitched by Districts with their own Deputies, every member of the Staff helping to make new comers feel a home or leading some of the many phases of Campcraft to be presented, these covering all the elementary requirements of Camping.

Too there will be a big campfire Saturday evening with songs and games, district stunts, stories and all such other activities and of course, a suitable devotional service is also being arranged for Sunday.

Bisons End Week With Baltimore!

Orioles battle at Stadium for
Balance of This week. Local
Fans greatly interested.

It is generally agreed around the International league that the team that

Classified Ads

BUILDING LOTS

FOR SALE—Fine building lot fronting on South Park Ave., Hamilton Ave., Stearns Ave. and the Martin road; no in taxes; prices reasonable. In care of Michael Kinney, 1684 South Park ave. Phone Abbott 1887-W.

FOR RENT—Downing and Julius Sts., Modern upper, \$30.00; modern lower \$35.00. Abbott 5805-W or Cleve. 1915.

FOR RENT—Newly furnished rooms at 32 Maple avenue, Lackawanna.

PAPERHANGING and painting. A. R. McDonald, Ab. 1170-W.

wins the pennant must banta out Baltimore, now playing Buffalo

There is a possibility that Joe Hauser who set an all-time home-run record last season with 64, may be in the Baltimore lineup. He suffered a leg injury early in the season. "Unser Choe" however, won't be missed by the Bisons if he doesn't show up. He sent almost a dozen drives over the field rampart here last season "Slugg" Tolson, formerly of the Cubs, is subbing for him at the present time and batting in the cleanup position.

The Orioles have one of the hardest hitting outfielders in Class AA baseball, with the husky Jim Stroner at third, Heinle Sand at short, Heffner at second, and Tolson at first. Denny Southern, with the phils for the last few seasons, is in left field, with the brilliant Frank McCowan cavorting in center, and a rookie, Boyle, said to be the best of the 1931 crop, in right.

REASON ENOUGH

Manager: "Why do you keep cruising around the ring like that?"
Boxer: "I'm looking for a place to land."
—Fight Stories.



THE bigger the slip the harder the fall! But an Aina Ideal Accident Policy will soften the blow!

Pays hospital, doctors' and nurses' bills, up to the policy limits, insures income, provides for the family should the accident prove fatal.

ETNA-IZE
Today!
KLEIN-HEGEDUS CO.
"INSURANCE WITH SERVICE"
447 RIDGE ROAD
LACKAWANNA, N. Y.
ABBOTT 0001



Phone Abbott 4597 Roofing
M. EDW. STALTER
LONG LIFE
Gutters and Conductor Pipe
Hanging
Furnace Repairing
435 EDEN AVE., near Abbott Road