

Scientists Are Seeking Ways For Industry To Use Excess Grain

Department of Agriculture scientists are dreaming up fantastic ways to turn corn into forms no corn-on-the-cob eater would recognize.

These new discoveries promise eventually to make a significant dent in America's increasing grain surpluses. A by-product: more profits for farmers.

Studies indicate that possible new uses for corn in metallurgy, insecticides, paper, textiles, tanning and other industries might take more than 400 million bushels of corn every year. That's about a ninth of the current annual corn crop.

The big problem, of course, is time. It's a long way from a successful laboratory experiment to a commercially-useful product.

Most of these new uses depend on developing specialized types of corn, rich in important starches. One type—called high-amylose corn—yields a starch scientists think can be formed into a man-made clothing fiber similar to high-strength rayon.

A textile fiber with properties like cashmere already is being produced from corn protein.

This same high-amylose starch could be used as a water-resistant finish for clothing or for making disposable containers for insecticides.

A second type of corn starch holds promise as a superior tanning agent for leather. The United States now imports a quarter of

a billion pounds of tanning agents yearly.

Still another corn starch seems to have value in making dripless paints. It also appears to be an excellent potential thickening agent in making cosmetics and oil well drilling muds.

In their laboratories, these government scientists have found they can convert one type of corn starch into a strong, tough plastic.

Department of Agriculture officials see a large potential market for cereal starches in the expanding paper industry, which now imports eight million tons of pulp and finished paper a year. These men think some of these corn starches with superior strength and adhesion properties could be strength and increase the amount combined with paper pulp to add of paper a given supply of pulp would make.

Other scientists are working on ways to use grain products for moisture-proof coatings for concrete highways and as rubberlike materials in asphalt roads.

These research men are trying to increase the effectiveness of pesticides by combining them with amino acids, dextrose or other substances made from grain.

They're developing ways to use molds, yeasts, bacteria and other micro-organisms working on agricultural raw materials to produce antibiotics, vitamins, solvents and organic acids.

They're experimenting with rice wax in the making of polishes and rust preventatives. They're working at using grain products to produce economical insulating board and pressed hardboard for building construction.

The new types of corn the Department of Agriculture is developing for many of these products would sell for premium prices, thus bring the corn farmer larger income. Since the corn would end up in industry instead of on the food markets, it would help cut the growing surpluses.

Walla Walla, Wash., is named for the Indian term, "Many waters."

Local Marine Serving At Camp Lejeune

Marine Cpl. Jerry M. Wilson son of Mr. and Mrs. Wade E. Wilson of Brasstown Route 1, is serving with the 3rd Battalion, 8th Regiment, an infantry unit of the 2nd Marine Division at Camp Lejeune, N. C.

On Dec. 17, the Marines demonstrated the methods of assaulting a fortified position for the Honorable Richard Jackson, Assistant Secretary of the Navy's Personnel and Reserve Forces.

Area Communities Eligible To Try For \$100 Award

Organized rural communities in Cherokee county are eligible to compete for a special forestry award of \$100 being offered this year in the Western North Carolina Rural Community Development Program, according to an announcement by the Asheville Agricultural Development Council.

The award will be presented to the organized rural community in the area planting the most pine tree seedlings in the current planting season.

The sponsor is the Champion Paper and Fibre Co. of Canton. Morris L. McGough, Executive Vice-President of the Agricultural Development Council, which is the area sponsor of the Community Development Program, states that this is the first time a special prize has been offered for activity in a particular enterprise. Previously, all area awards have been for overall community and family progress.

However, according to McGough, "The need for planting more pine trees in western North Carolina, especially on eroded hillsides and on steep land not well suited to farming, is so great and so urgent that the committee of community leaders which operates the Community Development Program set up this special prize to encourage the rural community clubs to push tree planting."

"Most communities in this area have thousands of acres of land which farm agencies say should be put into pine trees. This will be a profitable crop for landowners and will also be a big improvement for the communities." Landowners interested in ordering pine seedlings should see the County Agricultural Agent or the County Ranger immediately. The fall planting season was hampered by weather conditions and there may be a rush of orders by early spring.

Billy and Bobby Christy of Asheville are guests for a visit with their grandparents, Mr. and Mrs. John Christy.

Mr. and Mrs. Charles Delaney and son, Charlie have returned from Bristol, Va., where they attended the wedding of his brother

10,676,900 Visits Made To TVA Dam Installations

TVA said recently that an estimated 10,676,900 visits were made to TVA dams and steam plants during 1958, bringing the all-time total to an estimated 89,674,000.

On the basis of visitor figures for the past several years, it now appears that the 100th million visit will occur early in February, TVA said.

The 1958 figure is some 800,000 under that for the previous year. This is the first decrease in the annual number of visitors since 1951 when powerhouses were closed to visiting for some months because of the Korean War.

More than half of the decrease came in February and March. The visitor count in February 1957 was extremely high because thousands went to the dams to see the high waters during the flood season that year.

Significant decreases also occurred in July and August, because of a general reduction of tourist trends over the Nation. During May, June, October and November the visitor counts were up over a year ago.

The Kentucky Dam, with an estimated 1,344,800 visits led the list in 1958. Fontana Dam was second with 1,279,000. Pickwick Landing Dam was third with 1,198,000. Others in the first ten were: Chickamauga 1,166,000; Norris 1,061,300; Fort Loudoun 687,200; Douglas 503,100; Cherokee 477,500; Gunterville 451,000; and Wilson 359,300.

The seven steam plants open to visiting had an increase in visitors during 1958 over the previous year. However, steam plants accounted for only 2.6 per cent of all visits.

Farm Questions

Age of a rattlesnake cannot be determined definitely by the number of its rattles. Often, in molting, no rattle is left and, in the case of an old snake, a bunch of rattles may break off and only one or two be left.

COOL WATER

Even during summer, water only two degrees above freezing is found among the lava wastes of Idaho's Craters of the Moon National Monument.

INVENTOR GATLING

Richard J. Gatling, chiefly known as inventor of the rapid-fire gun, also invented the first wheat-cutting machine in the United States in 1830.

Saturday afternoon in the Winsor Presbyterian Church, Bristol.

Pfc. Dwain Winfrey left Sunday for Fort Dix, N. J., where he will leave soon for overseas duty in Germany. He was accompanied to Asheville by Mrs. Winfrey (Jean).

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Total Of 634 New Post Offices Were Dedicated For Public Use During 58

A total of 634 new post offices were dedicated to the nation's service in 1958. Postmaster General Arthur E. Summerfield reported recently.

These completed and dedicated new post offices are the largest number for any single year in the history of the Postal Service.

Altogether, more than 2700 new post offices have been built since 1953 by private capital, using private construction money rather than expenditure of Federal construction funds, Mr. Summerfield pointed out.

In addition to the importance of the new buildings themselves, the Postal Service has found in recent years that local dedication ceremonies have served the highly useful purpose of helping to acquaint citizens with the variety of postal services placed at their disposal and with the excellent work of postal employees, Mr. Summerfield observed.

In response to community requests that the launching of a new post office should be marked as a major event for the local area, the Post Office Department has in the last several years encouraged postmasters to mark the opening of their new offices with brief and appropriate dedication ceremonies, in cooperation with local community groups.

The growth of these colorful events has been a news development in itself for the Postal Service, Mr. Summerfield added. "These dedication ceremonies," Mr. Summerfield continued, "graphically demonstrate the importance of new post offices to a community. Not only do they provide patriotic ceremonies, but serve to acquaint many people with knowledge of their postal service which they, as mail users, can put to good use."

Postmasters in all sizes of communities in every section of the Continental United States, as well as in the territories—Puerto Rico and Hawaii—and in Alaska, have joined with community groups in putting on the ceremonies, Mr. Summerfield explained.

Typical dedication ceremonies, Mr. Summerfield noted, begin with band music, usually furnished by the local high school; invocation and benediction by clergymen representing different faiths; a brief welcoming address by the mayor, and an address by a top postal official relating the history, scope, progress and policy of the Post Office Department.

The ceremony is usually highlighted by the appearance of the local communities' elected representatives, who make a brief speech and present a new American flag to the postmaster which had previously flown over the Post Office Department or the Capitol in Washington. Following benediction, the new post office has an open house with mail users shown the intricacies of its operation by trained postal employees. Light refreshments served by employees' wives add to the friendliness of the occasion. Attendance often runs up to more than 2,000.

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the super-softness of Full Coil springing, in Easy-Ratio steering—then you'll know that this is the happiest surprise of the year. Come on in; don't miss this Open House!



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MOUNTAIN RESORT IN WESTERN NORTH CAROLINA

At the time and place stated the Tennessee Valley Authority will offer for sale at public auction to the highest bidder for cash, or on the terms stated in the prospectus, the Hiwassee Dam Resort site located in the mountains of western North Carolina, near Hiwassee Dam, and just upstream from Apalachia Lake. The 535-acre tract ranges in elevation from 1,500 feet to 1,760 feet above sea level.

A SWEEPING VIEW of Hiwassee Lake and the surrounding mountains, combined with a delightful summer climate, deep water recreation, and room for expanding existing facilities make the site ideal for development into a major tourist attraction.

LOCATED NEAR MAJOR North-South and East-West travel routes, the site lies 110 miles from Asheville, 98 miles from Knoxville, 90 miles from Chattanooga, and 77 miles from Cherokee, N. C., the Southern gateway to the Great Smoky Mountains National Park.

BUILT BY TVA to house its construction people, the resort site contains 42 permanent frame houses, 13 semi-permanent frame houses, and 5 frame buildings suitable for recreational facilities. The black-top roads, water plant, and the underground water and sewage systems go with the land.

AMPLE LAND for additional vacation housing and recreation facilities of all kinds.

To obtain a copy of the prospectus and make arrangements for personal inspection, call or write Jack D. Hollis, Supervisor of Land Sales, Tennessee Valley Authority, 505 Lupton Building, Chattanooga, Tennessee.

CHURCH DIRECTORY

First Baptist Church

REV. J. ALTON MORRIS, Pastor

Sunday School 9:45 A.M.
Morning Worship 11:00 A.M.
Training Union 6:30 P.M.
Evening Services 7:30 P.M.

St. Williams Catholic Chapel

REV. JOSEPH DEAN

Sunday Morning Mass 8 A.M.
Holy Days and First Fridays
Mass 8 P.M. Evenings

First Methodist Church

REV. R. T. HOUTS, Pastor
Sunday School 9:45 A.M.
Morning Service 11 A.M. ¼
Youth Fellowship 5:30 P.M.
Evening Service 7:30 P.M.

Free Methodist Church

REV. WILLIAM HASELDEN, Pastor

Sunday School 10 A.M.
Morning Service 11:00 A.M.
Evening Service 7:30 P.M.
Young People's Service 2nd and 4th Sundays 6:45 P.M.

First Presbyterian Church

REV. ROBERT POTTER, Pastor

Sunday School 9:45 A.M.
Morning Worship 11:00 A.M.
Evening Worship 7:30 P.M.

Church of God

REV. W. F. REMBERT, Pastor
Sunday School 10:00 A.M.
Morning Worship 11:00 A.M.
Evening Service 7:00 P.M.

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