

Beans Growing In Beads New Science Wrinkle

By DELOS SMITH
United Press Staff Editor
NEW YORK (UP)—Beans growing in beads—that's the shape of things to come. No earth, not a crumb of earth (and no sunlight, either) but an abundance of beads. Glass beads are put in plastic dishes, where they're bathed in water. Water contains hydrogen and oxygen. The beads also are bathed in air. Air contains carbon in the form of carbon dioxide.

Now put red kidney bean seeds among the beads. Add calcium, magnesium, potassium, sulphur, phosphorus and nitrogen. Also add traces of zinc, iron, manganese, boron, copper, and molybdenum.

Next, concentrate fluorescent lights above the beads. We have to approach the intensity of sunlight to get this stew of chemicals bubbling.

Plants All Identical
The seeds sprout. They anchor their roots around the beads. In precisely 25 days every bean plant blossoms, and each has precisely the same number of blossoms. Ten days later each plant bears the same number of beans.

All this is going on in laboratories at the plutonium plant at Hanford, Wash., which is operated for the Atomic Energy Commission by the General Electric Company. Here we get to the subtler contours of the shape of things to come.

Plutonium results when uranium 238 is bombarded by neutrons in nuclear reactors, and plutonium is the active part of an atomic bomb. But this atom-splitting in nuclear reactors produces also "waste" by-products, such as strontium, cesium and yttrium.

Radioactivity Dangerous
They're all rare earth metals in nature, always combined with other elements. But when these and other elemental isotopes are "made" by transmutation in nuclear reactors, they're dangerous because they're both radioactive and, being elements, are practically indestructible.

No atomic scientist doubts that the day will come when nuclear reactors will provide the power for industry, for transportation, for just the ordinary living of ordinary people. When the day comes there will be large and ever-increasing quantities of these dangerous and indestructible "waste" elements.

Accurate Measure
Drs. John H. Rediske, A. A. Selders and their associates in the vegetable laboratories at Hanford are "feeding" these elements to kidney beans—and to tomatoes, wheat, thistle, and barley. Because each chemical step in their growth and maturing is precisely controlled, the scientists can measure precisely what each "waste" element does to the plants and—more important—what the plants do with the "waste" element.

How much of each element do the plants "take up"—how radioactive do the plants become? That is the vital question. In making use of the vast potentials for easier, better living in atomic energy man would lose if he contaminated his earth with atomic "waste" element. In the shape of things to come, that will be a problem. Rediske and Selders are getting the answers ready now.

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P.S. It's Good! Read About It In Popular Science — Sept. Issue.



ARCH OF TRIUMPH—A triumphal arch is planned for Kiev to commemorate the 300th anniversary of the Ukraine's reunion with Russia. This ornate model was submitted in a contest to select a plan for the arch. Called "Star-Crowned Grain Ear," the model was submitted by six Moscow architects. Photo and caption material from an official Soviet source.

Labor Secretary, AFL Head In Debate at Convention

By WILLIAM M. BATES

WASHINGTON (UP)—The Eisenhower administration's labor program grabbed the spotlight in the congressional battle today but farm and foreign policy issues still supplied plenty of campaign fireworks.

A free-swinging labor policy debate between Labor Secretary James P. Mitchell and AFL President George Meany erupted yesterday at the AFL convention in Los Angeles.

From the speakers' platform, Mitchell pleaded with the big labor organization to give President Eisenhower's program a "fair appraisal."

Conceding unemployment is higher this year than last, Mitchell said "this is the mildest contraction that we have ever had in any postwar period."

Second Best Year
Earlier, from the same platform, Meany rapped the administration for a "do nothing" policy in the face of "millions of unemployed."

He accused the administration of following a "this is our second best year" slogan and declared: "I would suggest that we see that the administration comes out second best in the elections this fall."

Elsewhere across the nation, Republican and Democratic partisans continued their verbal slugfests in an all out fight to win control of the 84th Congress in the Nov. 2 election.

In Cody, Wyo., Interior Secretary Douglas McKay said Republicans must hang on to control of Congress in November to prevent a trend toward "a socialist empire of government ownership and control."

Foreign Policy Issue
If the Democrats win this year, he said, they will "work overtime trying to embarrass and hamstring the Eisenhower administration."

In Washington, Sen. Henry M. Jackson (D-Wash.) continued his running attack on administration foreign policy which he said is pegged entirely on "bluff." He

said it is "the one big issue" of the congressional campaign.

Vice President Richard M. Nixon took time out from his swing through the Midwest to announce that he is preparing a "full scale" reply to Adlai E. Stevenson's ringing attack on the administration Saturday.

Need GOP Congress
Nixon said he would answer the 1952 Democratic standard bearer in a speech at Lansing, Mich., tonight. The vice president, at Grand Island, Neb., also attacked as "poor political logic" Democratic claims that a Democratic Congress would be more help to Mr. Eisenhower than a Republican one.

Independent Sen. Wayne Morse of Oregon, who quit the GOP two years ago, lashed out at the administration farm program and foreign policy in a speech in behalf of Democratic candidates in Madison, S.D.

He predicted a "grass root" farmer revolt against the Eisenhower farm program and charged that the administration has a "war clique" which is looking for an "incident to take us into an all out war in Asia."

Fifth Graders Undertake Movie Making Project

By ROBERT O'BRIEN

UNITED PRESS STAFF CORRESPONDENT
TROY, N.Y. (UP)—A new motion picture company is competing with Hollywood, even though this group has no Marilyn Monroe or Lana Turner—yet.

The movie outfit is a young one in the real sense of the word. Its members are all fifth graders.

But don't sell them short. Although they don't have much operating capital—piggy banks don't hold much—they have verve and enthusiasm.

Their project began last January after one of the fifth graders, who had taken some motion pictures on a trip to California, suggested that his classmates get together on a movie. At the time, they were studying Daniel Boone in their history class.

So, Daniel Boone is the subject of the picture. Committees were formed for research, script writing and other chores.

They overcame the first problem—finances—by holding their own showing of the California trip in a classroom's cellar, complete with popcorn. The show was good for \$5, and individual contributions boosted the take to \$8.

Then the parents got in the act, and as a result the financial backlog was enlarged.

The children spent two months writing and rewriting the script, and working out the technical problems.

Girls, cast in the roles of Indians, began wearing their hair in braids and asked museum authorities at Fort Ticonderoga for advice on Indian life.

Parents were put to work helping build scenery, complete with a covered wagon and Daniel Boone's cabin. Troy citizens even donated the horses the script called for.

The camera—lent by Rensselaer Polytechnic Institute in Troy—is run by a college student more familiar than the children with its intricacies.

The cameras have been rolling since mid-June, and the children have given up such things as Saturdays at the swimming pool to work on the picture, which will have 65 scenes.

They'll even burn Boone's cabin toward the finish—expected in a month or so.

True to the tradition of movieland, the title of the production isn't set. Right now it appears to be plain "Daniel Boone."

Sophistication Not Enough, He Says

NEW YORK (UP)—A small town girl with an air of sincerity out-runs many a sophisticated beauty in the race for a husband because she remembers something the glamor queens forget.

"A woman still needs to be a good listener, and most beautiful women in this town can talk about only one thing—their careers," David Haft, an eligible young man-about-town said sadly.

The 31-year-old president of a coat and suit house would be a good catch in any glamor girl's book, but so far he's escaped. A man quickly tires of the rarefied atmosphere that surrounds a movie queen or a beautiful model, he claims, and yearns for some good old-fashioned womanly traits.

"Act interested in the man and not the place he's taking you," he advised girls. "That's just good manners, and girls from out of town are more polite about it than New York career girls."

"Dress simply, especially on a first date. It makes a man uncomfortable when he calls for a girl if she's over-dressed."

"Encourage a man to talk about himself. It may be trite advice, but there's nothing a man likes to do better."

"Let him do the ordering at a restaurant. Tell him what you want, if you like, but let him talk to the waiter."

"Devote your attention to him, and just don't go out with him again if the two of you don't have a good time together."

Police Chief's Auto Snatched

OAKLAND, Calif. (UP)—Police Capt. Anthony J. Bolger had no sooner arrived at his office in city hall Monday when the telephone rang.

It was his wife informing him that the family auto had been stolen.

The Bend Bulletin Classified Ads Bring Results.

Big Cities Fail In Parking Race

CHICAGO (UP)—Cities with more than 50,000 population expanded their parking areas in 1953 but failed to keep pace with the increase in automobiles, a study shows.

But cities from 10,000 to 50,000 population fared better. They had a median of 55 spaces for each 1,000 vehicles, compared with 49 spaces per 1,000 the year before.

The study was made by the International City Managers' Association, which gathered information on traffic and parking from 892 cities.

The four cities with the greatest number of parking spaces per 1,000 vehicles were Miami Beach, Fla., with 580; Roseville, Mich., 396; Shaker Heights, O., 365; and Attleboro, Mich., 308.

Of the 892 reporting cities, 554 own or operate one or more off-street parking lots. Their total was 1,747 lots, an average of three per city. This was a 19 per cent increase over 1952 in the number of lots and a 7 per cent jump in the number of cities with such lots.

Survey Cracks Scientist Myth

CHICAGO (UP)—The nation that scientists are an eccentric and retiring lot is all wrong, a survey says.

The study, which took a year to complete, analyzed the personality traits of 514 scientific and technical staff members at Illinois Institute of Technology and the Armour Research Foundation.

The psychologists who made the study found that, contrary to popular belief, the best scientists are "original and enthusiastic leaders."

They also found that the more brilliant the scientist, the more outside activities he is likely to enter. The more "retiring" scientists are apt to be the "less productive" laboratory workers.

UNUSUAL HEN

DERBY, N. H. (UP)—Lloyd Stagg has a cross-breed hen that is the pride of his 2,000-hen flock. First, she laid an egg—within an egg which measured 9 1/2 inches. Then she produced one which weighed one-half pound and was 9 1/2 inches in circumference.

Quebec's Beaver Protection Plan Paying Dividends

By MARC E. THIVIERGE

UNITED PRESS STAFF CORRESPONDENT
QUEBEC (UP)—Quebec province's 27-year-old "beaver protection" program is paying off, with the production of beaver skins, according to Dr. Camille Pouliot, provincial minister of games and fisheries.

"The beaver, Canada's emblem, is also the symbol of initiative, perseverance and industry," Dr. Pouliot said.

The beaver was the bait that lured thousands of French and English explorers and settlers to this country more than 300 years ago. Fortunes were made by those who either trapped the animals themselves or purchased the skins from Indians for a few trinkets.

With the years, however, the beaver started to disappear, until 27 years ago when J. S. Watt, manager of the Hudson Bay Co. at Rupert House, gave the Quebec government its first lesson in beaver conservation.

12 Reserves
Out of his own pocket, Watt started buying beavers from Indians who found them on their land. The purchase carried the provision that the animals would be left alone and a report made to the new owner every year.

Watt finally managed to convince the Quebec government that his conservation program was a sound one and beaver reserves under government protection were established.

Today there are 12 of these reserves in the northern part of the province covering 184,300 square miles. They will produce 25,950 beaver pelts this year.

The beaver skin industry has been extremely remunerative to the Quebec's far north Indians in the past 27 years. From starving, unclothed and unskilled people, they have become a well-dressed, fed and happy part of the population.

The first beaver reserve created by Watt at Rupert House in 1927 resulted in sites at Nottaway (11-300 square miles), Vieux Comtoir (30,000 square miles), Abitibi (6-000 square miles), Grand Lac Victoria (6,000 square miles), Mistassini (45,000 square miles), Manouane (2,200 square miles), Roberval (20,000 square miles), and Bersimis (21,000 square miles).

Each reserve is divided into

hunting and trapping lots and each Indian or trapper owns his own piece of land. The properties are checked each year by government officials and are always passed along from father to son.

Following the hunting or trapping season, the owner of the lot turns over his skins on government representatives and they are marked and stamped for sale to brokers or individual furriers.

The department of games and fisheries also adds to the development of the industry by moving from one reserve to another the surplus reproduction of the beaver families.

For instance, with the co-operation of the federal department of Indian affairs, 500 beaver families from over-populated reserves of Abitibi and Nottaway will be "transplanted" to those of Manouane, Mistassini, Roberval and Bersimis.

Besides income from the sale of the skins, the Indians hunting or trapping the beaver also supply their families with the meat of the animals, which is a delicacy to them.

State Sessions May Be Yearly

CHICAGO (UP)—A study of legislation at the state level shows a trend toward annual legislative sessions.

The study, made by Commerce Clearing House, a private organization which reports on tax and business law, showed that more bills than ever before are being introduced in the so-called off-year sessions.

The flow of legislation indicates that the law-making needs of the states cannot be transacted in one session every two years, according to the organization.

Action toward holding annual sessions has been taken in six states. Proposed constitutional amendments providing for annual sessions will be submitted to the voters next November in Kansas, New Mexico and West Virginia.

Another amendment for annual sessions is before the legislative branches in Louisiana and, if passed, will be put to the voters in November.

In Texas the voters refused a legislative request for annual sessions but state leaders have indicated they may ask for another vote, CH said.

A constitutional change providing annual sessions has passed one session of the Pennsylvania legislature. It must pass a second session before it can be submitted to the voters.

FLOWER SHOWER
At pompous Roman banquets of old, flowers were dropped from trapdoors in the ceiling on "over-stuffed" guests as they reclined on couches in the dining room.

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Iowa Cornier Then Neighbor?

DES MOINES, Ia. (UP)—Iowa's secretary of state, Melvin D. Synhorst, thinks his state is cornier than Ohio and hopes to prove it.

Ted W. Brown, Synhorst's counterpart in Ohio, suggested a corn husks "duel" during halftime at the Iowa-Ohio State football game Oct. 16 after he grew a 13-foot stalk in his garden.

In accepting the challenge Synhorst said he was sure some Iowa farmer would come up with a corn stalk that will dwarf the Ohio model.

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