

Hybrid sorghums may avert famine

For millions of the world's poor, the next decade may bring famine—or the end of chronic malnutrition.

Some authorities have predicted growing population will outstrip food supplies in the 1980's and lead to mass starvation. Now, scientists think discovery of protein-rich sorghum may avert the crisis.

One of the oldest cultivated grains on earth, sorghum is the staple food of more than 300 million people, principally in the poorer nations. But though it quells hunger, it provides little nutrition, the National Geographic Society says.

Nutritionists have found that 5,000 varieties of sorghum have been found to offer adequate nutrition. Both strains contain a protein-making chemical the researchers believe can be transferred to other types of sorghum.

Dr. John A. Hannah, administrator of the Agency for International Development, which supported the studies of the grain, says that "improving its protein quality will amount to a gift of life."

Annual grains that grow from three to 15 feet tall, sorghums are coarse plants with relative, shallow roots and leaves that roll up in dry weather to minimize the loss of water.

Able to flourish in arid soil or where the growing season is too short for other cereal grains, sorghum is harvested throughout much of the world.

It is known by many names, including kaffir corn, Egyptian corn, Guinea corn, great millet, and Indian millet. In India it is called jowar, chola, or jowina, while in China it is kaoliang.

Millet, or sorghum, was harvested in Egypt as early as 2900 B.C., and some agricultural scientists believe it may have been man's first cultivated crop, long before there were written records.

It was grown in Assyria as early as 700 B.C. Pliny wrote that sorghum was brought to Rome from India, which he believed was its original home. It has not been found growing wild on the subcontinent and today botanists believe sorghum originally came from Africa.

Millet, or sorghum, remained the principal food of millions of Europe's poor through the Middle Ages. In the 19th century it was gradually replaced by wheat, rice, corn, and potatoes.

Beer and Syrup

Besides being one of the world's most important food crops, sorghum is widely used as feed for livestock, for forage and hay, syrup, sugar, and in making whiskey, beer, starch, and other products.

Though research has disclosed that two Ethiopian strains of the plant are highly nutritious, nearly all of the sorghums are rich in protein. But the protein is "locked in" chemically and is of little benefit to millions who depend upon the grain for nourishment.

Scientists found the Ethiopian plants contained a gene able to free the sorghum's "locked" lysine—an amino acid that is essential in utilizing protein. By crossbreeding, this trait may be transferred to sorghums grown in other parts of the world.

Success could eliminate much of the malnutrition that today afflicts populations regions of Africa, Asia, and South America, agricultural researchers believe.

Jaycee LL Basketball season opens Saturday

The first games of the Jaycee Little League Basketball season were played Saturday night. The eight teams played four games. Team scores are as follows:

First game in two overtimes, Patriots 30, Rebels 27. Patriots—Mike Harton 20, Mike Conley 8, and Chris Baker 2. Rebels—David McGuffey 9, Pat Letzner 9, Barry Bretz 8, and Mike Sowell 1.

Second game, Hornets 14, Demons 8.

East Union

Elder Palmer and his children visited Mr. and Mrs. Richard Hatten on Sunday afternoon. Other Sunday visitors were Russell Hatten and Mr. and Mrs. Charles Hatten and daughters of London, Ky.

The Eugene Robinson family enjoyed Thanksgiving dinner on Sunday. The day was enjoyed by all.

Mrs. Vince Sosby and daughters visited Mrs. Patsy Robinson on Sunday afternoon.

Richard Hatten has returned to his home from the Mary Child Hospital in Mt. Sterling.

Mr. and Mrs. William Lawrence spent Thanksgiving with their daughter, Mrs. and Mrs. Alice Vee Sr.

Mr. and Mrs. Don Curtis and children spent Thanksgiving with their parents, Mr. and Mrs. Lee Curtis. Other guests were Mrs. Don Tolson and son and Eleanor Carl.

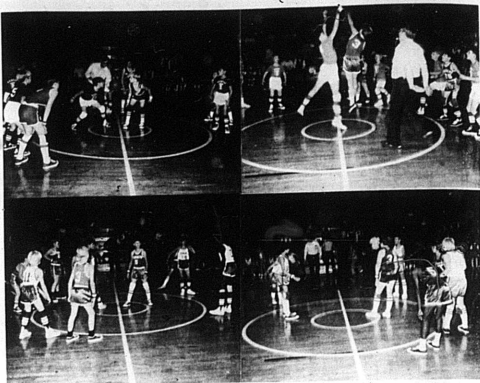
Rev. Oscar Robinson and son Gary were guests of his sister Mrs. Ethel Hobbs on Tuesday night.

Mr. and Mrs. Charles Hobbs had as supper guests on Thanksgiving night Mr. and Mrs. Jerry Trussell and Thomas, Jack Caywood and Danny Vice.

Mrs. Mary E. Moore returned Sunday from the University Medical Center.

Philip How 5, and Darren Green 2.

Fourth game, Jets 14, Hawks 17. Jets—Don Markland 11, Mark Taylor 8, Bradley Maxwell 4, Mike Boykin 3, and Greg Rawlings 3. Colts—Greg Haney 6.



Tip-offs

Pictured are the tip-offs at the first of each of the four Jaycee Little League Basketball games played Saturday night.

Top row: Patriots vs. Rebels and Hornets vs. Colts. Bottom row: Hornets vs. Demons and Jets vs. Hawks.



Reservations being taken

Shrine of Our Lady of Guadalupe members are taking reservations now for the benefit concert to be presented Sunday, Dec. 9, at 3:30 p.m. at the church. Admission to the concert is \$1.00 by advance ticket or at the door. Dinner, which will be served immediately after the concert, is by advanced reservation only. Dinner reservations must be made by Dec. 1, accompanied by payment of \$1.00 per person. Concert tickets or dinner tickets may be purchased from any church member. Pictured discussing reservations are Mrs. Charles Canapp, reservations chairman, Mrs. James Neil, Mrs. Joseph H. Conley, and Mrs. William Harper—Mercury photo.

December is near, get Christmas Cash by selling here!

Saltwell

Mrs. Ida Hall and family attended the funeral of James F. Hall at Athens on Friday. They also spent several days with Mrs. Hall.

Mrs. Gladys Kenney and Mrs. Martha Earlywine visited Mrs. Pearl Hule of Paris on Wednesday.

Florence Mattson of Lexington was a visitor in our community on Monday. Mr. and Mrs. Donnie Gaunce and children of Ft. Thomas spent the Thanksgiving holidays with Mr. and Mrs. Fritz Gaunce and Mrs. Bobby Price and family also Saturday dinner.

Miss Haveria Mattson of Mershead of Eastern State University, Hickmond, spent the Thanksgiving holidays with her parents here.

Miss Denise Stone of Carlisle spent Thursday night and Friday with Mr. and Mrs. Gary Hollar and children.

Rev. Woodrow Gaunce of Mt. Olivet entered Harrison Memorial Hospital on Sunday for treatment and remains a patient there.

Mr. and Mrs. Vaughn Mattson, John Clump, Mrs. Gene Campbell and daughter of Frankfort spent Thursday with Mr. and Mrs. Jennings Mattson and children.

Mrs. Arnold Mattson, Mr. and Mrs. Cliff Rapp of Lexington were Thursday supper guests of Mr. and Mrs. Fred Hollar and Tracey Hollar. They also visited with Mr. and Mrs. Chester Mattos and Vaughn Mattos early in the evening.

Miss Nydia Price spent Thursday night with Eugene Mattson.

Mr. and Mrs. Gary Hollar and children, Mr. and Mrs. Jerry Galbraith, Mrs. Lena Ham and Mrs. Willie Stone of Carlisle, Mrs. Diane Hamilton and daughter Chelise of Lexington were Thursday supper guests of Mr. and Mrs. Donald Stone and Denise of Carlisle.

Martha and Daley Kennedy and Mr. and Mrs. Raymond Kennedy, were Thursday dinner guests of Mr. and Mrs. Herbert Blakeman and daughters of Lexington.

Mrs. Larry Flora and son, Mrs. Arthur Fryman and daughters of Indiana visited Mr. and Mrs. John M. Fryman of Stony Creek on Friday.

Mr. and Mrs. Roy E. Shapp, Mr. and Mrs. Roger Goodman and daughters,

Space research beneficial

By Nick Rice

"The benefits of space research are coming down to earth," says UK researcher-engineer, Dr. Richard R. Bierbaek. "You are able to cook a roast faster, operate your flashlight longer, have a more comfortable backwoods camping trip or even live in a safe house," he added, naming the potential benefits from space research.

The list of benefits is long and will probably become longer as space-related developments are applied to earth technologies, according to the UK researcher. "A heat pipe developed to make more uniform the temperature of a spacecraft can also be used to conduct heat into the interior of your roast, for more uniform cooking," he said. "That little pin is several hundred times more efficient than anything we've had before and I anticipate many uses for it from cooking."

Dr. Bierbaek, whose special interest is heat transfer, has closely watched the progress of space research over the years. In fact, he and UK engineering professor Clifford Crenners were the first engineers from the country to

Continued on page six

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Dr. Wilton O. Weldon, editor of The Upper Room, Nashville, presents the 25th Upper Room Clanton to Major General Gerhardt W. Hyatt, Chief of Chaplains of the U.S. Air Force. Major General Hyatt is Chief of Chaplains of the U.S. Army, and Chief of Chaplains of the U.S. Navy. Dr. Weldon, in making the presentation, stated "these citations are presented in recognition of the worldwide ministry of all chaplains who serve in times of war and peace, faithfully giving their noblest in ministering to human needs."

Hospital notes

Nov. 13, 1973 to Nov. 20, 1973. Visiting hours are 2:00 to 4:00 and 7:00 to 8:30 p.m.

ADMITTED: Sadie Bow, Stanley Bromagen, Eugene Shannon, Helen Wagner, Beth Ann Cornelius, Charles Mann Sr., Elaine Hunt, Ruth Biont, Elizabeth Bell, Bob T. Green, Carlisle, Nellie Buckler, Flemingburg; Edna Mitchell, Ewing; Judy Manley, Sharpburg.

DISMISSED: Roxie Wilson, Lander Crockett, Horace Letcher, Helen Lawrence, Arnold Bowen, Yoko Curtis, Sidney Bow, Sadie Bow, Eugene Shannon, Stanley Bromagen, Beth Ann Cornelius, Lynn Judge, Carlisle; Helen Alexander, Ewing; Mary Ann Larnan and baby girl, Mayfield.

Annual Christmas Bazaar
Dec. 1 - 8 A.M. to 3 P.M.
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