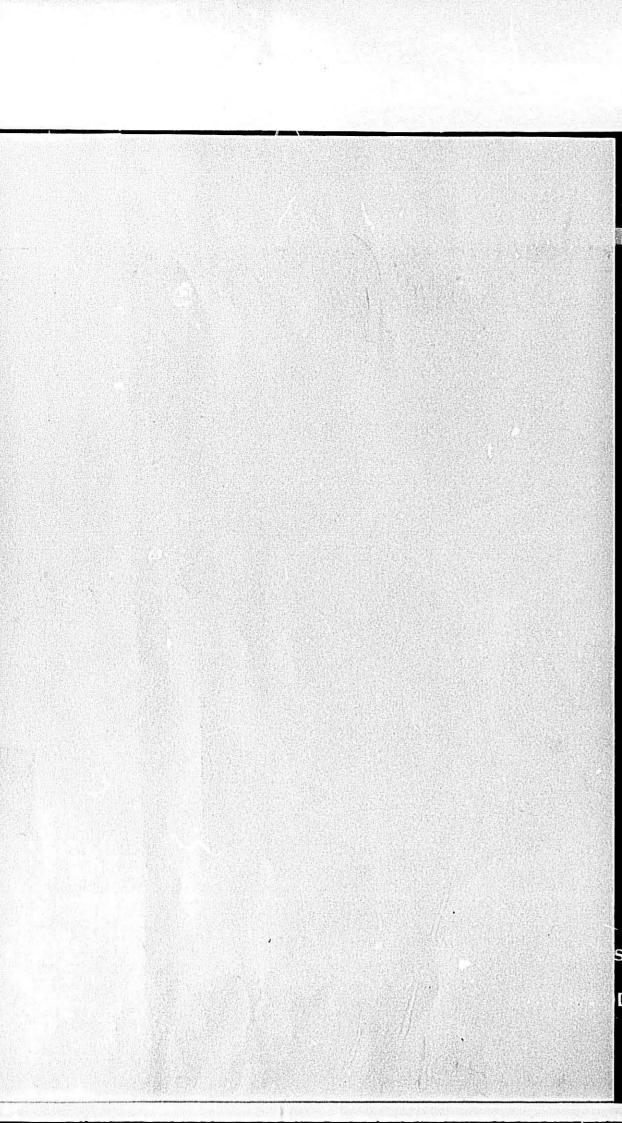
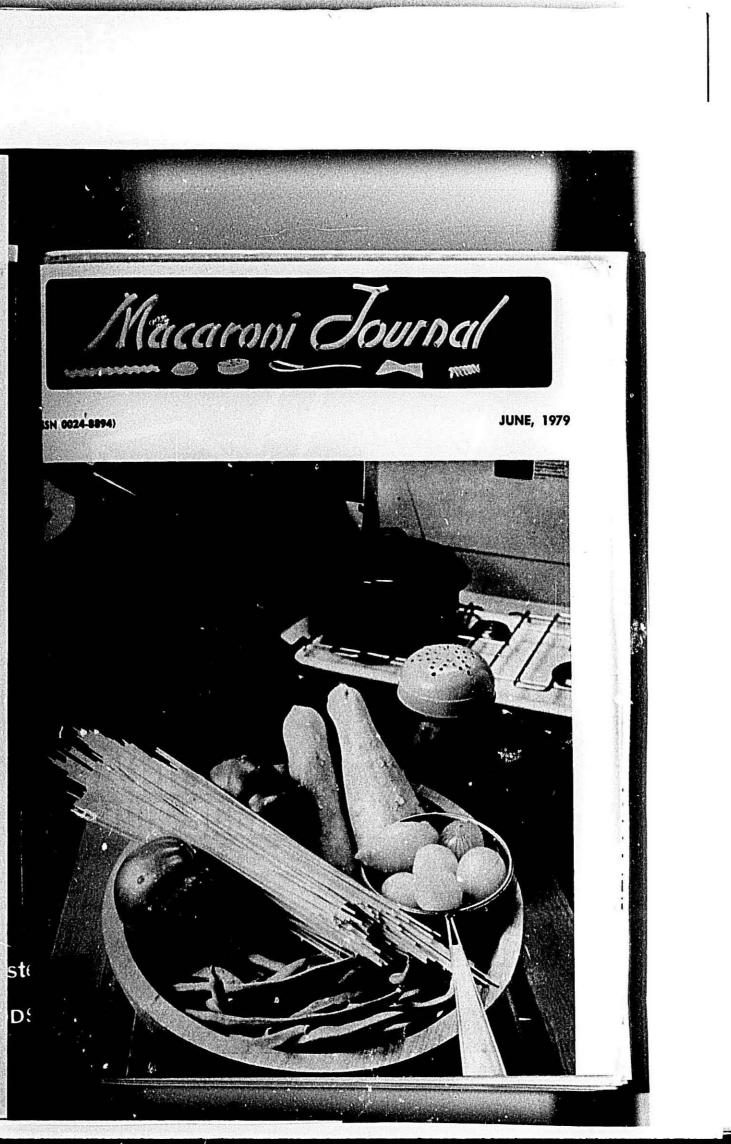
THE MACARONI JOURNAL

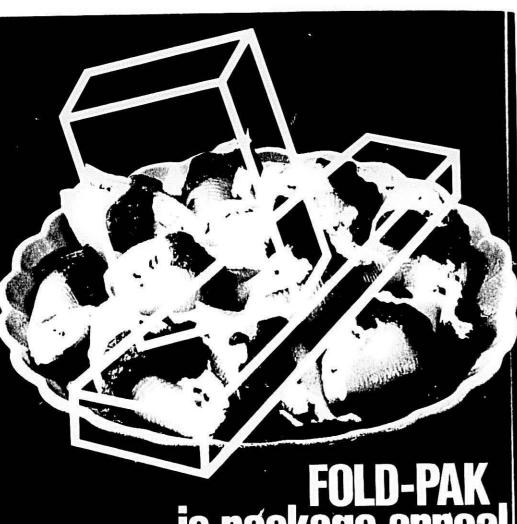
Volume 61 No. 2

June, 1979









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Vol. 61 No 2 June 1979

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Ottacal publication of the National Macinon Manufacturers. Essociation 19 Nouth Bothwell Street, Palatine Illine's Adarss all correspondence regarding advertising or canonal materials of Robert M. Green, Editor, P.O. Box 336 Palatine Illinois 60007

In This Issue:

Officers Paul A. Vermylen President In Vice Pres. I. R. Thurston, Jr. 2nd Vice Pres. 3rd Vice Pres. Executive Secretary R. M. Green Director of Research I. I. Winston

Directors

I. M. (Andy) Anderson Vincent DeDomenico Anthony H. Ciota John D. Herrick Joseph P. Pellegrino I manuele Ronzoni, Ji Ralph Sarh Hoyd I Skinner Lester R. Thurston, Ir Paul A. Vermylen Joseph P. Viviano John William Lawrence D. Williams ST TOL RS M

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ors or Indoors . . . ur Own Cooking with and Save

on a camping trip+ Plan to own cooking. You'll save and enjoy the fun of cooking pen. It may seem easier to eat are along the road, but are you'll spend more than it carefully and make meals on

about a hearty spaghetti ble stew. It's one of those wal-in-a-pot dishes A medley ortal vegetables is added to tti cooked in an onion-flavored

JUN 1979

Conference on Darum Variety and Quality Improvement Thoughts on Durum Research I. R. Thurston, Jr.
 Wheat and Wheat Loods Nutrition Education Actions by P. Viviano
 75th Annual Meeting, NMMA, Program
 Anthony H. Garai
 Competition Among Carbohydrates Senator McGovern Speaks to the Lood Group Reasons for Vitamin Enrichment Where the Food Dollar Is Spent New Step Loward Othee of the Lature What Explains Our Success' Belt Storage System Index to Advertisers Industry hems

> base Take along cooked ellow maca - 1 fat. It ontries oraous dramed rom and salad makings for another nourishing meal A portion of the stew costs about 51 cents and the same garlie and green beans 5 minsalid 25 cents. Costs based on New rates liemove gathe add 4 aps water York taty prices. You'll find both and soup any bring to a bon traid year round menu selections don't wally add spaghetti nal squash so that keep them for outdoor eating only a water continues to hold Cover and Active adults growing children and cook 10 minutes or until specifiette ternagers need energy Tilleav mara stender. Add salt pepper tonators toral spaghetti and egg toodles model and onions. Cover and cook over low from durum and or other high quality the it 5 minutes, sturing one isonally wheat with its carbohydratic content. Serve with cheese is an excellent energy source. Pastacontains a good distribution of anneacids and offers macine thranning monthaving and iron. It is in easily digested low fat low sodium food

Spaghetti Vegetable Stew

Makes 6 services

- i tablespoons salad only
- 2 cloves garhe
- 12 pound green beaus, cut in thirds, 1 cups water
- I envelope deliverated onion soup-11115

S onnes spaghetti

- I pound yellow squash pared and
- sheed
- 14 teaspoon salt
- 1's teaspoon pepper
- I pound tomatoes cut into wedges chill

Grated Farmesin cheese

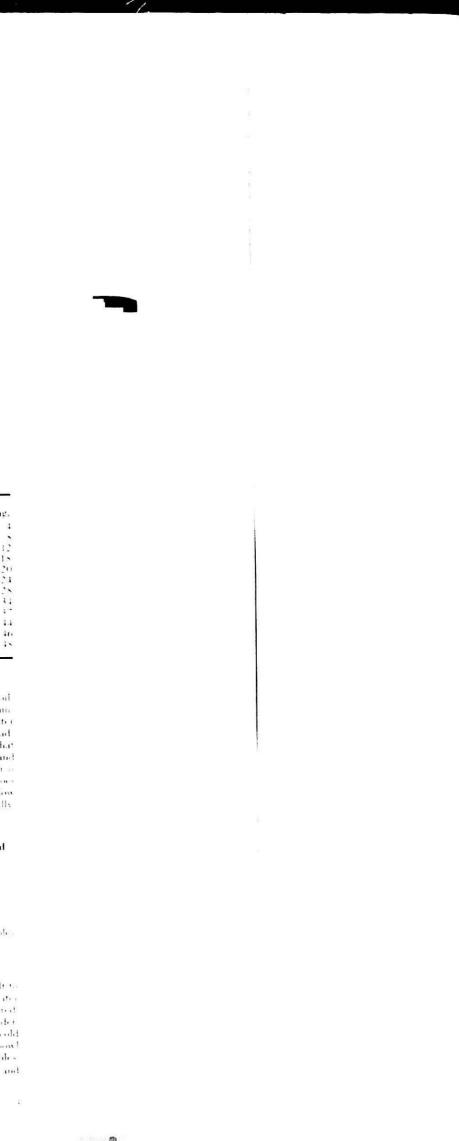
In Dutch over or large pot heat of

Macaroni Mixed Vegetable Salad Makes I services

- 2 supsellow machine Sources
- 1. table spinor salt equarts boiling water
- cup chopped refers
- Lean Resonance mixed vegetable diamod
- . cup thinly shord radiates
- cup onion salad dressing

Gradually add macarone not salt to rapidly horling water so that water continues to boil Cool intervented

sturing occasionally until tender Dram in colander Bines with cold water dram again. In large boox! combine macarora sclers segetables radishes and dressing toss lightly and



Conference on Durum Variety & Quality Improvement

Traditionally the macaroni business runs hard during Lent and then abruptly stops for the slowest period of the year. This year the first quarter was the best ever, but instead of slowing up after Lent it continued right on possibly because of cool weather and high prices of meat and due to the fact that Lent is no longer observed as strenuously as a religious and merchandising event.

Cram Course

The staff of the North Dakota State University Agronomy and Cereal Technology and Chemistry Departments put together a cram course for a concentrated background on durum development and testing.

The group was welcomed by Dr. Kenneth A. Gilles, vice president for Agriculture at the University, and Director Dr. Roald H. Lund described the North Dakota State University Experiment Station and its role in agriculture. He pointed out that NDSU was a land grant college established in 1862 by the Morrill Act, and that the College of Agriculture offers 14 disciplines, ten of which can lead to a degree.

With a budget of about \$10 million, 47 percent is spent on the study of crops, 20 percent on natural resources, 18 percent on livestock, and 6.8 percent on basic studies. In 1977 North Dakota farm income was accounted for by crops at 63.5 percent, livestock at 29.1 percent, and government payments at 7.4 percent.

Dr. Jack Carter, Chairman of the Agronomy Department, observed that North Dakota is in the same latitude as England, Germany, and Manchuria. There are 650,000 people in North Dakota, 40,000 of whom are farmers. The state has 18 million hectares with 14 million cultivated. Twelve hundred acres or 460 hectares is the average farm size today. Only nitrogen and phospherous fertilizers are needed on most of the land which is dry farmed. There is little irrigation. Elevation runs from 800 feet in the L t to 3,500 feet in the west, and precipitation runs from 18-20 inches in the east to 15 inches in the west.

The present seed stock system can

7,200,000 pounds in 15 months with information with scientists and the increase in the winter nursery in ers, seek new uses for cereals. Obregon, Mexico, as well as in Mesa and Yuma, Arizona. This system of cooperation between Canada and the United States and Mexico has helped agriculture in all three countries.

Plant Breeding

Dr. James Quick, plant breeder, said good varieties plus the weather of North Dakota produce good durum. He described his job as a plant breeder as one of analyzing traits in varieties of wheat and changing them for industrial purposes. The farmer wants yield and disease resistance; the miller is interested in yield from kernel size; the macaroni processor wants steady production of good quality with sufficient protein for consumer satisfaction; the consumer is concerned with firmness, taste, and color.

In the past 50 years there have been four plant breeders whose primary interests ran as follows: Glen S. Smith, 1929-47, launched the science of plant breeding with wheat and got it off the ground; Ruben Heerman, 1948-55, was primarily concerned with stem rust resistance to counter the devastation of 15-B rust; Kenneth Lebbsock, 1956-58, worked on disease resistance and improving kernel size; Jim Quick, 1969-present, has been working on grain yields and gluten properties.

Improvement potentials call for a study of maturity differences that affect the yield and processors' costs, seedling vigor, and quality traits of gluten strength, color, protein and kernel weight.

Tests for Quality

Dr. Brenden Donnelly of the Cereal Technology and Chemistry department, described various tests for durum quality including test weight, vitreousness, 1,000 kernal weight, kernal distribution, protein, and ash as well as tests for milling characteristics and spaghetti processing characteristics including cooking tests.

Dr. Orville Banasik, Chairman of the Department, explained that their purposes are to maintain or improve quality of grains, seek knowledge of, physical and biological properties of cereals, develop new quality testing durum standard. increase one pound of wheat to methods, exchange new cereal quality

The plant breeder, cereal chem and pathologist all work with

grower to produce new varietie; a serve as a source of information technological know-how to done and foreign users. Among the pub services provided are grain qua-surveys, technical assistance for whe marketing, and the hosting of the teams.

Dr. Floyd Nierenberger, of Federal Grain Standards Service Kansas City stated that grading been in effect for 63 years and is m ducted through regional offices Kansas City, Chicago, Dallas, Atlanta. Grading calls for more of jective tests and less subjective There must be speed in determination because only a few minutes are available. able. Cleaning time and down tir between samples must be minimi The simplicity of the operation is in portant as it is also one of the pro-lems of training. The precision of the tests is vital as the sample is the be you will get. There must be a his degree of accuracy in the testing grain, and it must be capable of be standardized.

Manufacturers' Comments

In commenting for macaroni man facturers Association President Pa A. Vermylen stated: "We are al mendously impressed with efforts at North Dakota State versity. It is probably true that are complacent, and we accep quality that we get - there are who say that domestic product inferior to the quality of Italian ria roni. We do know that the an o of imported product is growing the consumer has been willing to more for imports and that the mand for better gluten came for exporters when it should have a from us.

"Mill representatives must be tive selling representatives by rolling up their sleeves and demonstra quality instead of merely selling price. Quality has to be sold - ble ing is a rebellion against the so-cal

(Continued on page 8)

THE MACARONI JOURN

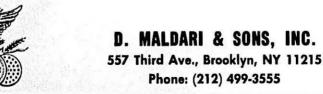
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In many ways, a Chimney Sweep's tob is the same as poets, playwrights and historians have portraved centuries. The same kinds of brushes and elbow greare needed to clean the same kinds of chimneys — the time-honored superstitions associated with the tobs , observed, such as wearing second-hand top hats and for good luck.

But, for all the legend and romance surrounding profession, the Chinnex Sweep performs a very nece modern-day function – a function which makes him popular in 20th Century Yellow Pages as in 17th century plays

AY KAN

He's a Breadwinner

the summer state time when most of roots over the places of the basy time channel. Sweep When the resize up so does be the convalued wont be in use until the robs.

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Breadwinners supplying Breadwinners since 1902

ADM

Baker's shortening, corn sweeteners, soy protein for the baking industry.

Conference on Durum (Continued from page 4)

"Color is cosmetic. It is performance that should be the final criteria. Specifications are being more strictly enforced along the line from pasta customers to pasta producers. We are in a period of change and must be more professional. We are also in a period of ascendance, and the future looks bright."

Good Manufacturing Practices

Thomas J. Imholte, Corporate Quality Control for General Mills, Minneapolis, had an interesting audiovisual presentation on Umbrella Good Manufacturing Practices demonstrating general provisions, applications to building and facilities, equipment, and processes and controls. NMMA Director of Research James

J. Winston noted that good manufacturing practices should take cognizance of: (1) raw materials; (2) manufacturing and processing conditions; (3) finished products; (4) coding and inventory; (5) additional practices to supplement the sanitation program; (6) the necessity for gathering and col-lating data on micro-biological examinations.

After the comments there were round table discussions and questions and answer sessions about good operating procedures.

Judi Adams Leaves

Judi Adams, nutritionist with the Wheat Commission since 1973, has accepted a position with the North Dakota Sunflower Council. She will continue with the Commission on a part-time basis through the summer months.

Judi has been instrumental in developing nutritional awareness for wheat and wheat products in North Dakota and the nation. She was named the state's Outstanding Young Home Economist in 1978 and has served as an officer and director for the Bismarck-Mandan Nutrition Council and the State Home Economists Association.

Judi holds both the bachelor of science in home economics and the master of science in home economics with emphasis in foods and nutrition from the University of Wyoming.



Industry Echoes: Thoughts on Durum Research

by Charles M. Hoskins

As the plane carrying the macaroni men converging on Fargo for the Durum Seminar dropped down through swirling clouds a vast lake uset the eye where the Fargo area durum fields should have been. A delegate from Grand Forks came directly from carrying sand bags onto the levee to protect his neighbors and his own home from a river which was still rising.

People who braved this weather were rewarded by a look into the science fiction battle being waged over the decades by the plant breeders, pathologists and chemists of North Dakota state and USDA to bring us superior durum in spite of insects, rust, short growing seasons and competition from sunflowers. The detailed description of the talks and tours will appear in the Macaroni Iournal.

I would like to discuss the implications of the work and suggest how the macaroni industry can add its knowledge to that of the durum and milling people to speed solutions of practical problems.

The new varieties Edmore and Vic produce bright yellow color and have very strong gluten. Other varieties have short straw to prevent lodging and increase yield per acre.

Edmore should be available in some quantity beginning in the 1981 or 1982 crop year and will provide a tool for improving processing character-

istics, dry product strength and sistance to over cooking.

Research scientists require det knowledge which can be put mathematical terms to carry for their work. They also need to] the practical results from their la so that they can direct their effet toward solving the most urgent pr lems faced by the people who their products. If you have a prol let them know.

Our industry should be grateful the fine work which has been done North Dakota to provide dur varieties which are rust resistant a which make a macaroni pro which has good cooking quality a color. The new strong gluten produ will return more closely to the co

ing qualities of the early Russ wheats which were brought to country by Carleton and served as t basis for the durum industry. Retance to over cooking will be principal benefit of this,

As time becomes available there a few other areas which should explored by durum breeders and oth scientists in the durum-millingaroni manufacturing industry.

• What is the effect of du variety on the extrusion patterns short cut and long goods press This requires knowledge of viscos of dough at various temperatures a rates of shear.

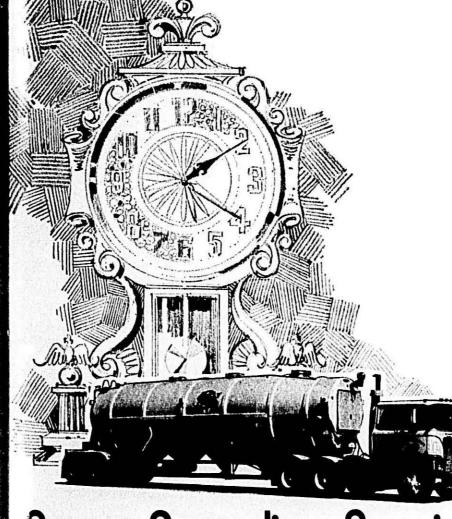
 As drying temperatures cree upward there may be a tendency a somewhat brown product beca of the Maillard browning reac is This is caused by an interaction heat, sugar and protein. Research hu been done in Europe. We will un more knowledge of this.

• Taste r / pasta can vary fron tally bland to a mildly nutlike flix This is a subtle background for the sauce flavor that has an importa effect on the enjoyment of the cocke food. European manufacturers ben durum from several countries in orde to get the best combination of tust texture and color. The taste companies of use research effort.

· Both gluten and starch contribut to the unique characteristics of duru wheat. They both need to be studied with the purpose of finding whe effect they have on processing and

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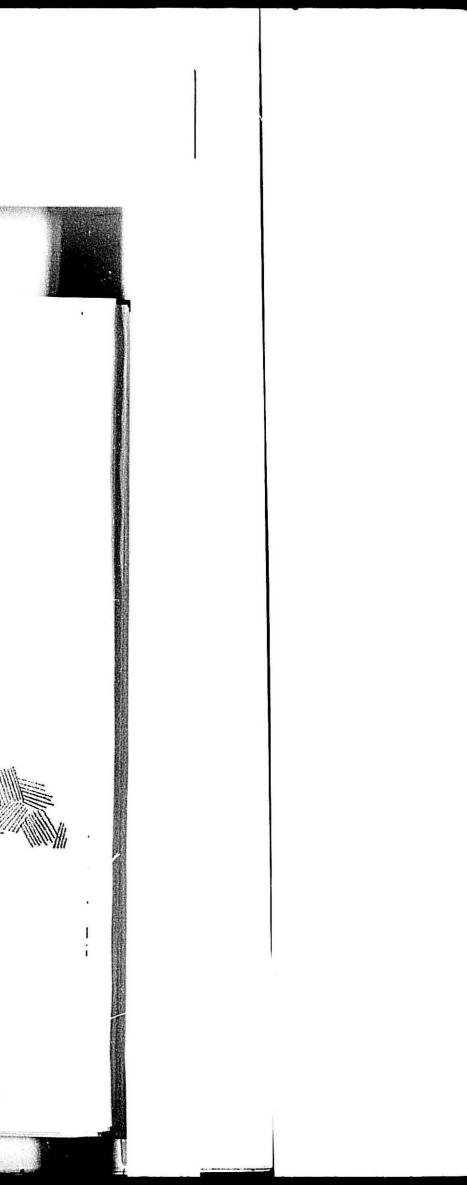
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Thoughts on Durum Research (Continued from page 8)

cooking. The characteristics of dough mixed at room temperature or slightly above have been thoroughly studied by the use of Erabender farinagraphs, stretching devices, mixograms and the like. The quality of cooked product has been studied in cooking tests. The area which is still somewhat of a mystery is exactly what happens as the temperature is raised through the gelatinization temperature of starch and the coagulation temperature of starch and the coagulation temperature of protein. With high drying temperatures this transformation of starch and gluten can occur during the drying process as well as in the cooking process.

I wouldn't go so far as to say that all macaroni people should prostrate themselves toward Fargo five times a day as the Moslems do toward Mecca but I think that they should all have an occasional kind thought toward Brendan Donnelly, Jim Quick, Len Sibbitt, Ken Gilles and the other scientists whose long slow work has brought the durum crop through setbacks which could have been major and continuing disasters.

New Varieties Released

The NDSU Experiment Station has released a new spring wheat variety and one durum

The hard red spring wheat variety has been named "Len" after Len Sibbitt, NDSU Cereal Chemist, who has dedicated over 40 years of service in developing and promoting North Dakota wheat, not only here in the United States but overseas as well.

Discum Variety "Vic"

Another durum variety named "Vic" after Vic Sturlaugson, long time superintendent of the Langdon Experiment Station, was also released. "Vic" durum is a selection between a cross of Edmore and Ward durum. "Vic" has been yield tested in North Dakota field strips since 1974, regional trials since 1976, and in North Dakota drill strips since 1976.

"Vic" is a normal height durum with to have the following characteristics when compared to other durums. "Vic's" yield is superior to Edmore and equal or superior to all normal

height durums it was checked against in tests conducted at North Dakota experiment stations. "Vic's" average yield during that past three years was 48 bushels per acre. Only Cando out yielded "Vic" by leading with 48.6 bushels per acre. Other varieties in equal or superior to Rugby, Edmore and Rugby. In kernel weight, "Vic" is equal or superior to Rugby. Edmore and Calvin. In test weight, days to head, height and lodging resistance "Vie" is equal to Rugby and Edmore. In disease resistance "Vie" is equal outlook for grain cropping patter to Rugby. "Vic's" root rot resistance in that country. Press reports from the is intermediate between Rugby and Soviet Union indicate that spr Edmore. "Vic" is superior to Rugby and comparable to Edmore in quality. These varieties have been allotted to county crop improvement associations for seed increase this year and should be available for commercial production next year.

Cooperative Effort

"Vic" durum is the result of expanded durum plant breeding at NDSU which the NDSWC financially supports. In fact, the National Macaroni Manufacturers Association and the durum millers throughout the United States also contribute to this very worthwhile project.

Several of the varieties released by NDSU in recent years are the result of the cooperative arrangement. Our overseas customers have stressed the U.S. needs to improve the gluten strength of its durum varieties in order to maintain our share of world markets. The domestic manufacturers, as well, have agreed this quality characteristic may improve the gluten qualities of pasta products. As a re-sult, Jim Quick, NDSU durum plant breeder, has been directing the program toward the gluten strength improvement and has met with considerable success. The varieties Calvin, Cando (both semi-dwarfs), Edmore and now "Vic" have improved gluten characteristics over previous varieties.

Cold, Wet Spring (Written in late April)

Severe spring flooding in the U.S. white awns and glooms and appears southern and northern Great Plains and in Manitoba Province in Canada are not dissimilar to the reported spring flooding in Poland and the The payment is ADM's 190th co Soviet Union. In addition, overall un-

seasonably cool and above nom precipitation in various North Hemi phere countries have delayed the net essary field work for planting sprin sown grains and the efforts to reserve acreage planted to frost damage a winterkill of winter sown grains i both Western and Eastern Europer countries. According to various ports, unseasonably cold weather certain grain producing areas in th outlook for grain cropping patte sown grain in that country is off to the slowest start in the par seven years." According to the least ing agricultural newspaper in Russi Selskaya Zhizn, only about 15 millio acres had been sown to grain by the middle of April, just about half of the area normally seeded by this time i past years.

Price Relationships

These similar weather related co ditions in the United States, con pounded by a recent thirty (30) dr weather outlook of a higher than no mal precipitation, are creating de lays in seeding the corn crop spring sown wheat. Coupled with the current price relationship between either oil-Learing crops or coam grains and wheat, further weather m lated seeding delays of these gra crops as the month of May approac only suggest an increased incenti for U.S. farmers in the Corn Belt and the Northern Great Plains wheat in to consider seeding increased acrease in these areas to soybeans and pe-cialty oil-bearing crops. While the current delays in seeding progress not of a crucial nature at this point particularly because of advance agronomical practices and sophist cated mechanisms in operations, som degree of concern is being expressed now about any future delays with respect to proper plant germination and development and any unseasonable early fall weather patterns.

A D M Dividend

Archer Daniels Midland Co. d clared a dividend of 5 cents per share on the common stock, payable June to shareholders of record on May 10 secutive quarterly payment.





WHEAT AND WHEAT FOODS NUTRITION EDUCATION ACT OF 1977 by Kenneth A. Gilles, Vice President for Agriculture, North Dakota State University, Fargo, at the Durum Seminar

Honored guests: it is a pleasure for me to address this meeting of the National Macaroni Manufacturers' Association, When Dr. Donnelly invited me to present the topic which he had selected entitled, "Current Trends in Nutrition and Relevance to Pasta Products: Wheat and Wheat Foods Nutrition Education Act", I was overwhelmed by the length of the title. However, I appreciate the opportunity to speak on this subject in which I have had a keen interest for more than a decade. Perhaps, if a facetious subtitle were chosen, it might be called "Wheat Nutrition Can't Be Marketed - Or Can It?"

Background

For many years, it was thought that wheat and rice were the two most important cereals in the world. That is true today! However, wheat production has been increasing at the rate of about 2.8 percent per year, slightly faster than rice production. Consequently, in the last several years, we have been producing and consuming more wheat worldwide. To those interested in wheat marketing and production, one would say, that's great! But associated with this is the allied observation that worldwide there is no concerted effort to provide an on-going technical and informational program concerning the nutritional qualities of wheat products.

Within the United States in recent years, interest in natural foods has risen substantially. Associated with this have been many people who convey myths and misconceptions about wheat food products. They are starchy; they are fattening; they are refined; they lack vitamins, etc., the types of statements designed to discourage consumption of wheat foods. In addition, the opportunity for selection of many alternative foods has medical profession criticized white risen as one of the many facets of the bread as a refined product with lower sophisticated food marketing system vitamin content. They were using an that has been developing in the United States. Thus, the competition is not only among alternative sources of focds but among alternative Widdowson and McCance report

and the second second

12



Dr. Kenneth A. Giller

sources of information relating to foods, some of which may be considered reliable.

Because of the diversity of the wheat foods industry within the United States, there has never been a concerted effort, an agreement by all segments of the industry to adequately and consistently support a wheat products research program. Where such programs exist, the work reflects the provincial att tudes of those supplying the financial support. Consequently, a nationwide program reflecting in an even-handed manner the interest of the many segments of the wheat industry has considerable appeal.

Nutrition education promotion programs have been used advantageously other countries of the world. England, Sweden, Germany and Japan a e examples where successful programs have been conducted. In England during the 1930's, the Millers Mutual Association initiated an "Eat More Bread" campaign with extensive press, poster and magazine advertising funded entirely by the Millers Mutual Association At that time, we were just learning a bit about the role of vitamins in nutrition and the analogy to problems found in polished rice. Work immediately following World War II and yublished as the

showed that enriched white bread and whole wheat bread were nutri tionally very similar. This work was challenged and in the 1950's, the Cohen parsel recommended continued production of white flour enriched with Vitamin B₁, niacin, iron and cal cium. The British millers hoped, but were later doomed to disappointment that this type of scientific evidence would resolve the medical control versy about white bread and help to restore the image of bread. However in England, the promotional cam paign suffered from a decline in fund ing and lack of continuity. Recently, Jack Copeland, Europea

Editor of Milling & Baking News made two observations concerning the effort in the United Kingdom. One i that continuity of effort coupled with assurance of funding is essential to establishing a worthy/hile program and two, is that an official pronounce ment from government or official medical sources of the desirability of increasing or maintaining bread con sumption is in the interest of national health

During the 1960's, there was con siderable dialogue developed relativ to the establishment of a U.S. wher and wheat foods foundation. Howard Lameman of the Wheat Flour Inst tute was an enthusiastic supporte d this concept. Moreover, on several occasions, I had the opportunity t stress the academic viewpoint relited to the need for increased comprel en sive nutrition research. During sev m of the annual meetings of the Na tional Macaroni Manufacturers' A sociation, Bob Green provided a audience for those topics.

It should be noted that other group have successfully employed researd and education approaches for make development. Currently, the coltor industry invests approximately \$1 million annually; the poultry and eg industry \$6 million and the potato in dustry \$2.6. Statistics show that the efforts of these groups have resulte in changed consumer attitudes. M Robert Mercer of the Potato Boar

(Continued on page 13)

THE MACARONI JOURNAL

that within the last two years, e who believed potatoes were jous increased from 56 to 81 percent of those surveyed. Those who how ht potatoes were fattening had ect used by over 20 percent; and inc. 1975, per capita consumption of notatoes has increased from 118 to 124 pounds. Mr. Mercer feels that the program indeed helps to improve the nage and sell the product.

Research studies on consumer attiudes, presented by Mr. Girardi of Hoffmann-LaRoche, indicate that the issue of starch and carbohydrates is a classic one of misconception. Today's enriched bread is recognized by 70 percent of the shoppers as a source of carbohydrates, but only 59 percent recognize it as a source of B vitamins, only 50 percent as containing any pro-tein and only 39 percent as a source of iron. Misconceptions come from the fact that only 14 percent of the conumers surveyed in one study consider arbohydrates and starches to be any part of a nutritional diet and only 11 percent thought cereals, grains, pasta and rice should be considered in the ontext of a nutritious diet.

In general, one could conclude that here is a creditable information lack both in the home and in the schools oncerning wheat and wheat based

During the 1960's, legislation was troduced to create a wheat and wheat foods foundation. Although support was generated, the legislation d. In 1976, legislation was again duced and in 1977, the Wheat Wheat Foods Research and Nun Act became part of the 1977 bill. This activity successfully uded more than a decade of ing and discussion.

· proposed Wheat Research and Education Program is sumed in a statement prepared by gricultural Marketing Service of USDA. A copy of the "Back-ader" is included in your inforon packet. It provides the backinformation about how the act will be implemented, approved, fimeed, and a program ultimately nitiated.

Current

To assist in providing background ormation, an ad hoc committee, onsisting of 16 people, was appointed UNE. 1970

by the president of the Wheat and Wheat Foods Foundation, Mr. Glenn Moore. Dr. Bert D'Appolonia of our institution is one member of this committee whose purpose is to develop an action program for research and education to be submitted to the Wheat Industry Council when it is ultimately formed. The two main objectives of the program are: 1) to educate the public on the present nutritional and economic value of wheat foods; and 2) to maximize the nutritional and economic value of wheat based foods in human nutrition through acquisition and application of knowl-

edge. Public hearings were held during the month of March 1979. A preponderance of testimony provided at the three hearings indicated an industrywide support for the concept. Wheat producers, millers, bakers, allied supporters, academicians, and administrative type people all offered their comments. It was generally agreed that research and nutrition education are needed to correct myths, misconceptions and blatant inaccuracies concerning wheat foods. The misfortune is that consumers are being led to avoid a range of economical and healthful wheat foods by persons with perceived authority but questionable expertise and there is no national organizational resource to provide a constant supply of reliable information about these foods. Mr. William Metz, the chairman of the American Bakers Association, stated at the St. Paul hearing, where I testified, that "we herald the opportunities inherent in a wheat industry council for self help and for opening new avenues of

understanding to consumers through research and education". There was no opposition at the St. Paul or Deuver meetings and only negligible opposition evidenced at the Atlanta meeting.

The report of this activity is very timely because the nearing brief was assembly of research information will filed on April 24.

Future

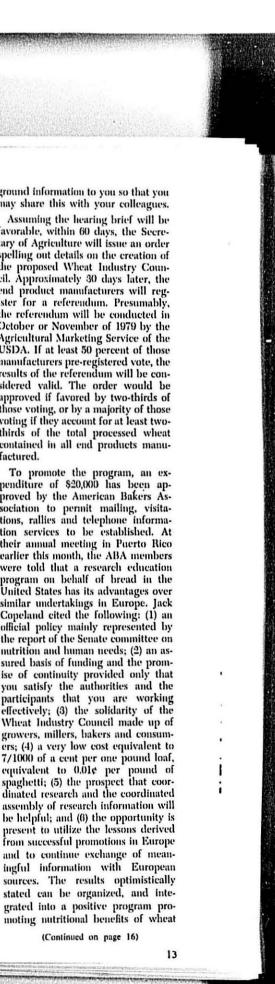
It is important that each person concerned with the wheat industry becomes acquainted with the concept of the Wheat Industry Council, its potential operation, mission and goals. Hopefully, my presentation today will convey some of the necessary back-

ground information to you so that you may share this with your colleagues.

Assuming the hearing brief will be favorable, within 60 days, the Secretary of Agriculture will issue an order lling out details on the creation of the proposed Wheat Industry Council. Approximately 30 days later, the end product manufacturers will register for a referendum. Presumably, the referendum will be conducted in October or November of 1979 by the Agricultural Marketing Service of the USDA. If at least 50 percent of those manufacturers pre-registered vote, the results of the referendum will be considered valid. The order would be approved if favored by two-thirds of those voting, or by a majority of those voting if they account for at least twothirds of the total processed wheat contained in all end products manu-

factured.

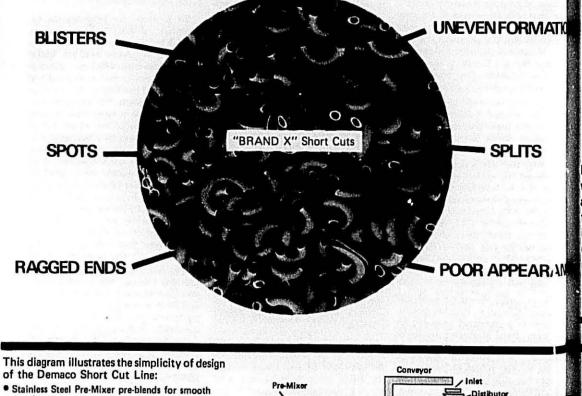
To promote the program, an expenditure of \$20,000 has been approved by the American Bakers Association to permit mailing, visitations, rallies and telephone information services to be established. At their annual meeting in Puerto Rico earlier this month, the ABA members were told that a research education program on behalf of bread in the United States has its advantages over similar undertakings in Europe. Jack Copeland cited the following: (1) an official policy mainly represented by the report of the Senate committee on nutrition and human needs; (2) an assured basis of funding and the promise of continuity provided only that you satisfy the authorities and the participants that you are working effectively; (3) the solidarity of the Wheat Industry Council made up of growers, millers, bakers and consumers; (4) a very low cost equivalent to 7/1000 of a cent per one pound loaf, equivalent to 0.01¢ per pound of spaghetti; (5) the prospect that coordinated research and the coordinated be helpful; and (6) the opportunity is present to utilize the lessons derived from successful promotions in Europe and to continue exchange of meaningful information with European sources. The results optimistically stated can be organized, and integrated into a positive program pro-

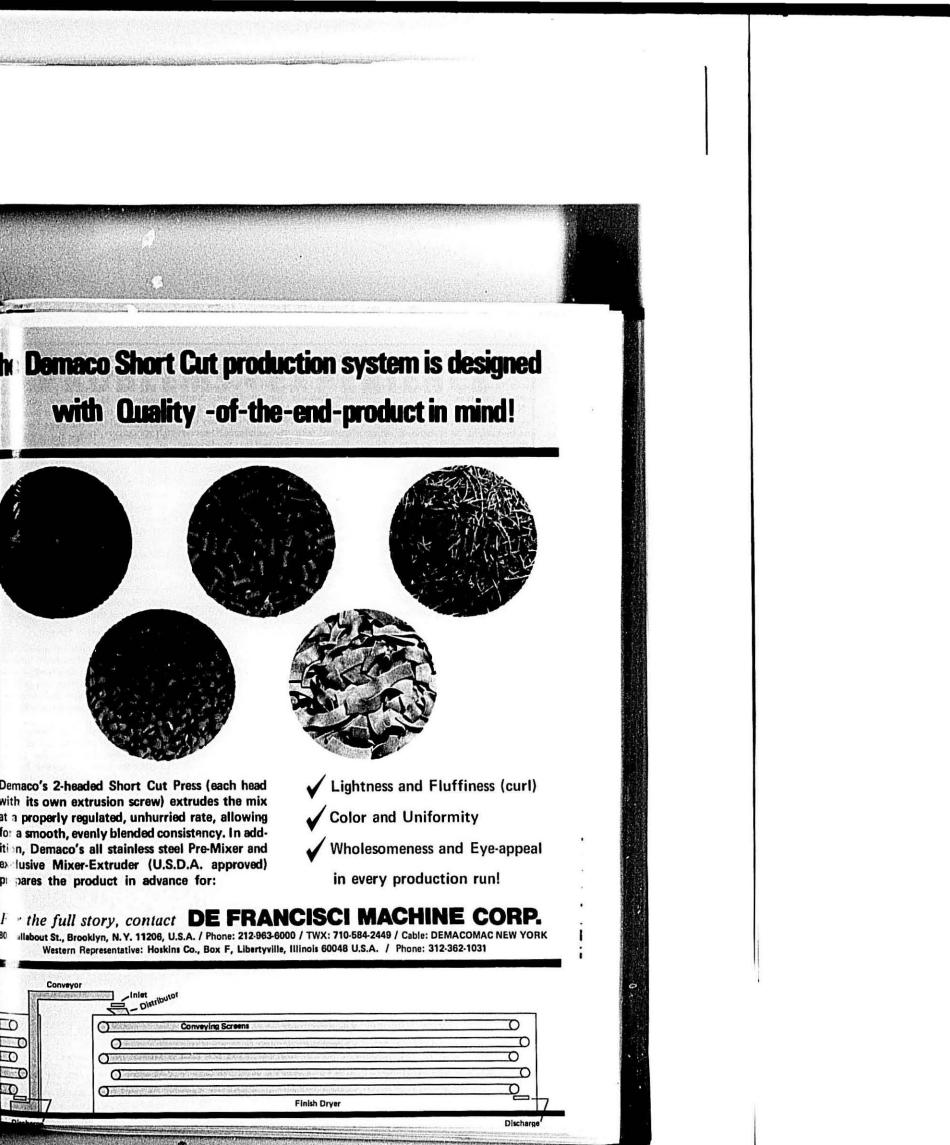


You can't take short cuts if you want Quality.

"Brand X" Short Cuts reflect all the imperfections caused by their hurried system of production via one large extrusion screw that forces the mix through the extrusion die without allowing it to blend into the proper consistency.

Here are the results:





This diagram illustrates the simplicity of design of the Demaco Short Cut Line:		Conveyor	
 Stainless Steel Pre-Mixer pre-blends for smooth consistency. 			
 Exclusive U.S.D.A. approved Mixer-Extruder. Most sanitary available. 	Mixer	ort Cut	Conveying Sc
 Electroless nickel-plated Short Cut Attachment produces most standard small macaroni products as well as Lasagna. Mosticciolli is also easily made by adding a special cutting device for the blas cut. 		techment	
	A CONTRACTOR AND A CONTRACTOR		California and a state of the state
 Simple, uncomplicated driver (all U.S. made narts) 	Extended 1 1952324	Conveyor	a Thus The sector sector and a web and a descent

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Simple, uncomplicated dryer will provide maximum dependable service: minimu

Wheat Foods Act (Continued on page 12)

foods based on a sound, long-term research program.

hundredweight of processed wheat will generate an estimated \$2 million per year. The maximum assessment allowed by law is 5 cents per hundredweight. USDA estimates based upon 200

million hundredweights of processed wheat used annually in domestic food production would be assessable. Depending on the assessment rate, from \$2 to \$10 million dollars could be generated annually. Certainly enough to develop a significant research and educational program.

I commend you to become informed and encourage eligible organizations to register and to vote.

Wheat Commissioners Elected

The North Dakota Wheat Commission announces that George Kubik, Manning and J. Ole Sampson, Lawton have been re-elected to six year terms from Commission District 1.0. 1 (Southwest) and District No. 4 (North Central) respectively. According to Mel Maier, Administrator, Kubik operates a Dunn County grain and cattle farm. Maier said he was reelected to represent Dunn County at the district election at which election representatives from 12 other Southwestern counties met to select one from among themselves to serve the Commission term. Kubik has served as NDSWC Vice-Chairman and on the Board of Directors of Great Plains Wheat, Inc. He is currently serving as aboard member of Western Wheat Associates.

J. Ole Sampson, Ramsey county farmer, was re-elected in District No. 4 which comprises seven counties in the North Central part of the state. Maier reported Sampson will be serving his third term on the Commission and is currently serving as its Chairman. In addition, he is serving as Vice-Chairman of the Great Plains Wheat Board of Directors and will likely succeed to the chairmanship of that organization this year.

Maier stated that the next elections will be conducted in District No. 5 (Southeast) and District No. 2 (Northwest) in early 1981.

Durum Forum Set

The 3rd annual International

Durum Forum will be held again at the Ramada Inn in Minot, North How much will the program cost? Beginning assessments of 1-cent per The usual mid-October date has conflicted with the sunflower harvest. Therefore, it is hoped that the November date will be acceptable to producers, grain buyers, millers, and processors of durum. The Forum is sponsored by the U.S. Durum Growers Association, the Ward County Agricultural Improvement Association, and the Minot Chamber of Commerce.

Campbell Soup to Purchase

Campbell Soup Company has announced that it is negotiating to acquire German Village Products, Inc., a Wauseon, Ohio, pasta products manufacturer.

Campbell has proposed a statutory merger which would give shareholders of German Village Products, Inc., \$3.30 per share in cash for their shares in the Ohio firm

Shareholder Approval Needed

If agreement is reached, consummation of the merger would be subject to the negotiation of a satisfactory contract between the two companies and approval of the German Village shareholders.

German Village's products are sold mainly to industrial and institutional bell-Mithun in Chicago. Martin/ customers. Annual sales last year were Williams, Minneapolis, is the Creammore than \$3 million.

for the first time in a major promotion spearheaded by a full-page, four-ce lor ad featuring a recipe for a "Quicl.'n Cool Summer Salad." The ad will up pear in June 26 Family Circle and July 17 Woman's Day, The recipe illustration and direc-

Veg-All and Creamettes

Veg-All Mixed Vegetables

Creamettes Macaroni will join forces

Launch Summer Tie-in

tions in the ad will also be featured on Creamettes Macaroni 7-oz. packages, along with 10¢-off coupons for Veg-All, during May and June.

Point-of-sale materials will be available through both Veg-All and Creamettes sales representatives.

Veg-All is the leading brand of canned mixed vegetables, and Cream-ettes Macaroni is the widest distributed pasta in the U.S. and Canada.

Effective Tie-in

The two companies have been using tie-in promotions lately because of the increased effectiveness with which two sales groups can provide retailers with display and merchan-dising ideas — to help them sell more related items.

Besides Veg-All, The Larsen Company offers a complete line of vege-tables under the Freshlike brand. Creamettes sells a complete line of Spaghetti, Egg Noodles and other pasta items.

The ad agency for Larsen is Campettes agency.

THE MACARONI JOURNAL



Golden Grain and Best Foods in Summer Tie-in Promotion An outdoor promotion in Northern California featuring a summer solad made with Best Foods Real Mayonnaise and Golden Grain Salad Macaroni is now in high gear. Billboards in many locations around the San Francisco Bay Area, Sacramento, Fresno and other Northern California communities are displaying the colorful dual product posting. The outdoor campaign runs from May through July.

PROBLEMS - EXPERIENCE

With more than half a century of experience in helping macaroni manufacturers, we believe we might be able to help you if you have any problems in our areas of experience.

PACKAGING

- we believe we have undoubtedly modernized more packages than any other sources. We constantly continue our updating processes.

PROMOTION

- we have not only conceived many promotional plans, but we have studied many that others have launched throughout the country. We believe we can help promote your products that you have by study, and recommend additional products that might be promoted in your trading areas.

ket. We have done it for others.

MARKETING - rather than depending entirely on advertising dollars, we can show you modern marketing methods which will help capture more of your mar-

MERCHANDISING - We can point the way towards new profitable products and lay out merchandising methods.

AND ...

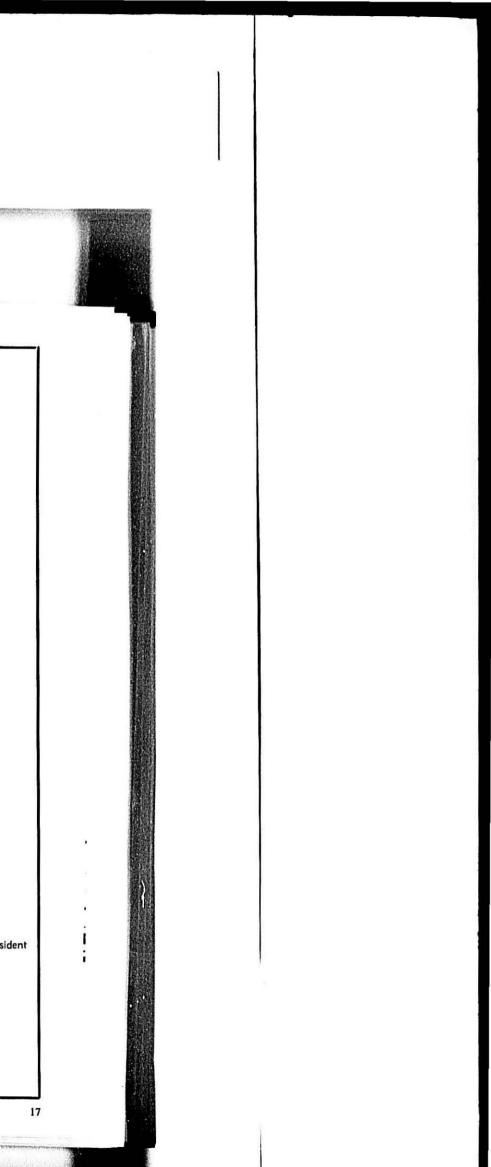
confidentially advise on the buying and selling of macaroni plants in the United States. We have experience in these areas.

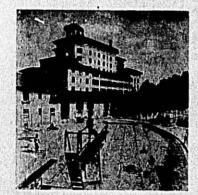
Charles C. Rossotti, President Jack E. Rossotti, Vice President George Leroy, Vice President and Marketing Director

ROSSOTTI CONSULTANTS ASSOCIATES, INC.

158 Linwood Plaza Fort Lee, New Jersey 07024 Telephone (201) 944-7972 Established in 1898

UNE, 1979





John Westerberg, President of Creamettes

L. John Westerberg, Vice President of Sales and Advertising of The Creamette Company was named President of the Creamette Company on April 12, it was announced by H. P. (Jack) Byrd, Senior Vice President of Borden Foods.

The Creamette Company, Minne-apolis, has been a major producer of macaroni and pasta products since 1906. It was acquired by Borden Foods, a division of Borden, Inc., in late fall 1978.

Mr. Westerberg succeeds the late Lawrence D. Williams, who passed away earlier in April.

Mr. Westerberg began his career with The Creamette Company in 1945. In 1951 he was named General Sales Manager, and in 1960 advanced to Vice President of Sales and Advertising, the position he held at the time of his appointment to the Presidency of the company.

Mr. Westerberg is a member of the Interlachen Country Club and the Minneapolis Athletic Club and makes his home at 241 Shady Oak Road in Hopkins, Minnesota, with his wife, Thelma, and sons Gary, Steve, John and Paul.

FDA Head Leaves

18

Dr. Donald Kennedy, commissioner of the Food and Drug Administration since early 1977, is resigning to take a top administrative position at Stan-ford University, Palo Alto, California.

Dr. Kennedy said he is leaving F.D.A. to become povost and vice-president for academic affairs at Stan-ford, effective August 1.

PROGRAM 75TH ANNUAL MEETING

National Macaroni Manufacturers Association The Broadmoor, Colorado Spirngs, Colorado

Sunday, July 8

2:00 a.m. Board of Directors Meeting

7:00 p.m. Welcoming Reception

8:00 p.m. Dinner-Remarks by President Paul A. Vermylen

Monday, July 9

- 8:00 a.m. Breakfast Meeting for Everyone-Ladies invited! 8:45 a.m. Ted Sills reminisces
- 9:00 a.m. Elinor Ehrman reports on product promotion
- 9:20 a.m. Gary Kushner reviews the Washington scene
- 9:40 a.m. Vance Goodfellow gives the crop outlook
- 10:00 a.m. Closed session for Macaroni Manufacturers to transact Noon Association business
- 1:00 p.m. Tennis Mixer
- 6:00 p.m. Cookout at Rotten Log Hollow-bus transportation

Tuesday, July 10

- Dialogue with Grocers—questions and answers Give and take with an outstanding panel of grocers 9:00 a.m.
- 12:00 Noon National Macaroni Institute Committee Meeting
- 7:00 p.m. Suppliers' Social-Evening Open

Wednesday, July 11

9:00 a.m. Management Seminars—choose one: to "Will Your Business Support Your Retirement Years—or Noon Ruin Them?"

- Every Business bears within it the seeds of its own destruction, because the owner is so busy running it today he cost not have time to think about his long-term future. ''et, there are only a limited number of options.
- Frank Butrick of the Independent Business Institute, Ak on, Ohio, will lead the session.
- "The Achieving Manager"—how to develop an achieven en oriented team; receive feedback on your maangement s yk
- from a national representation of your peers.
- Dr. Lee R. Ginsburg, a partner in Miller/Ginsburg and Br en, Philadelphia, will lead the discussion

7:00 p.m. Suppliers' Social-Dinner-Dance

Thursday, July 12

9:00 p.m. Board of Directors Meeting

Adjournment by noon

Golf Tournament can be played on Sunday, Monday, Tues day on the west course. Check in with the pro and have your card stamped "NMMA Tourney". \$10.00 fee for prize pool, \$15.00 green fees plus \$12.00 cart for two. You must be in a twosome, threesome, or foursome for attesting scores No husband-wife combos. Ladies invited. Register with Association Office.

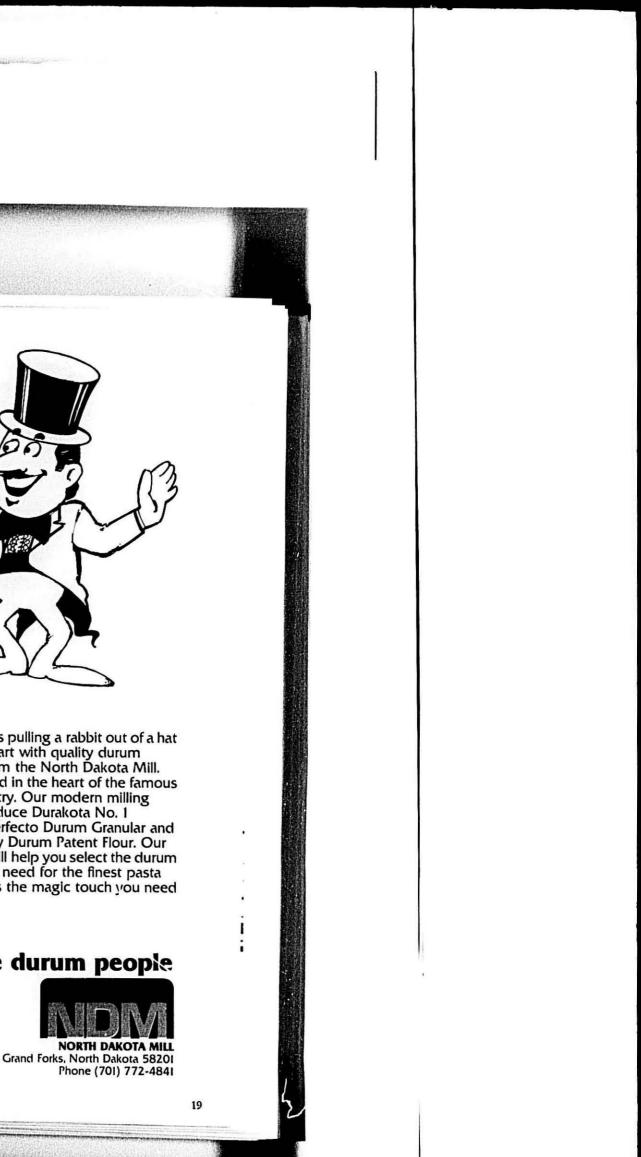
THE MACARONI JOURNAL



The sign of success.

It's as easy as pulling a rabbit out of a hat when you start with quality durum products from the North Dakota Mill. We're located in the heart of the famous durum country. Our modern milling facilities produce Durakota No. 1 Semolina, Perfecto Durum Granular and Excello Fancy Durum Patent Flour. Our specialists will help you select the durum product you need for the finest pasta products. It's the magic touch you need for success.

the durum people



JUNE, 1979

COMPETITION AMONG CARBOHYDRATES

by Julius A. Perozzi, Marketing Specialist, Selling Areas – Marketing, Inc.

at the N.M.M.A. Winter Meeting

In 1966, Selling Areas Marketing, Inc. began reporting warehouse off and other deals; "new" or "deleted" PASTA VERSUS ALLIED CATEGORIES date information; all brands and items Year Ending 11-17-78 withdrawals to food stores. In 1973 for category purchased. they added SAMI's Retail Distribution Index. 1977-Institutional Foodservice Trends. 1978-On-Line oper-Data Service.

SAMI is in the business of reportdoor deliveries, fresh meat products, produce products.

What is SAMI? It is a communications tool for use by the sales organi- 13 zation, the trade (buyers), marketing management, top management. SAMI provides comprehensive and timely 12 knowledge about products in the mar- 6 ket place.

How do clients use SAMI? As a 7 sales department tool to accomplish distribution, shelf management, obtain promotion and feature support. As a management tool to plan, forecast, budget; acquisition study; new product analysis. In product management: to fulfill management objectives and complete marketing plan. In Marketing research: to measure results of marketing-sales efforts.

SAMI covers 39 markets, 77% of U.S. food store sales-over 400 categories, 22,000 brands, 130,000 items. It has 300 dry grocery participants averaging 75% coverage. It issues 13 reports a year on 28-day periods. Total U.S. and regional data is projected to all grocery outlets.

Participants include all major factors except Safeway and Schwegman. List is published twice a year with changes reported to clients every reporting period. Average coverage in any given market is 75%. Participants receive cash and data.

SAMI product groups include 235 categories of dry grocery food; 75 categories of dry grocery non-food; 79 categories of frozen and refrigerated foods; 49 categories of health and beauty aids. Data reported includes movement to stores in cases, to a low of 24.2%. dollars and equivalents; retail prices;

Dollar Index Pound Index In graphic form, Mr. Perozi de-scribed the state of the nation: U.S. Category Pasta 100 100 **Canned** Pasta Dishes 63 59 Gross National Product in billions of ations. 1979-SAMI's Scanner Store dollars rose from \$1,650 in the first Italian Food Sauces 65 51 quarter of 1976 to \$2,141 in the third Dried Rice 67 60 quarter of 1978. In 1972 dollars the Prepared Rice 16 ing warehouse withdrawals to food rise was from \$1,256 to \$1,394. Per- Dry Packaged Dinners 69 stores in defined marketing areas. It does not report drop shipments, store vious year was as follows by quarters: Instant Potatoes 12 26 Frozen Potatoes 91 77 1976 197 1978 2 3 2 3 1 2 3 13 10 10 10 11 12 12 10 12 12 Current S 7 7 5 1972 S U.S. D 12 11 12 Current \$ 11 U.S. Food Store Sales 8 10 1967-100 10 10 Food 6 8 All Items Dollar and Top eck Data 12 Week Data % % Change Tonnage Volum 9-22-78 \$ Volum 9-23-77 U.S. Total \$64.4 1.2 1.0 10.9 10.0 \$58.5 10.0 2.9 Dry Grocery Food 35.8 39.1 9.0 2.6 2.5 1.4 1.5 Dry Grocery Non-Food 10.9 11.9 9.2 11.1 7.2 2.8 3.4 Frozen Foods 6.3 15.1 14.4 3.0 2.5 **Refrigerated** Foods 12.2 3.6 13.0 7.3 3.0 Health & Beauty Aids 12.7 12.3 5.5 TOTAL U.S. PASTA VERSUS ALLIED CATEGORIES -Annual Percent Change Versus a Year Ago

52 Weeks Ending:	11-22-74	11-21-75	11-19-76	11-18-77	11-17-78
Pasta	+ 3.1	+ 3.9	+ .8	5	+ 1.8
Canned Pasta Dishes	+ .6	- 6.5	+ 3.9	- 4.0	- 2.2
Itelian Food Sauces	+13.1	+14.6	+10.3	+ 3.3	+ 7.4
Dried Rice	+ 3.0	5	+ 1.1	- 1.2	+ 1.4
Prepared Rice	4	- 5.0	+12.0	+ 5.9	+ 4.6
Dry Packaged Dinners	-12.4	- 2.6	+ 2.0	+ 5.5	+12.1
Instant Potatoes	+ 4.2	-15.7	+ 5.6	1	+ 1.5
Frozen Potatoes	9	- 5.3	+ 2.5	+ 7.1	+ 1.0
Total Dry Grocery	0	- 1	+ 2	0	+ 1

Sixteen different brands have the have a common total U.S. 52 week largest 52 week dollar share within dollar share of 40% or more in 195 39 SAMI markets. The shares for the categories. top brands vary from a high of 70.4%

Of the 235 SAMI categories in dry 33.2%! number of operators shipping; cents- grocery-food, the top three brands

THE MACARONI JOURNAL

The top three brands in pasta have a combined 52 week dollar share (

SEASONALITY INDEX-POUND BASIS Total Long Short 98 95 94 101 98 January 102 118 122 111 February 114 110 110 March April May 95 99 90 95 97 100 98 97 June July 91 87 113 94 August September 89 109 93 93 93 99 95 October 100 105 95 109 118 Novembe 100 ecember 100 89 NEW PRODUCT ANALYSIS FROM ALLIED CATEGORIES Period Ending December 15, 1978 \$ Volume MBL. Dry Packaged Dinner 12 wk. 52 wk. Helly Crocker Mug O Lunch \$15.2 \$8.1 pton Lite Lunc 7.6 10.8 Dem drated Soup \$2.7 \$11.1 p Ramen 5.3 Iruchan 1.3 1.8 3.7 ruchan Won Ton men Supreme 3.0 men Pride . 2.2 odles of Noodles 2.4 uodles to Go MBER OF BRANDS WITH ANNUAL A & P Consolidates VOLUME OF AT LEAST ONE MILLION DOLARS Pasta 38 Canned Pasta Dishes 21 Italian Food Sauces 15 Dried Rice 21 Prepared Rice 11 Dry Packaged Dinners Instant Potatoes Terre Haute, Ind. Frozen Polatoes 29 JUNE 1979

PASTA VERSUS TOTAL DRY GROCERY

Annual Percent Change

1976

- .3

+ .8

+5

+2

1977

43.0

30.7

14.0

12.3

100

Noodles

108

106

124

135

100

93

83

78

75

81

96

109

113

Year Ago

15

24

19

26

20

19

18

1977

-1.8

- .5 -1.3

+9

+9

0

1978

43.8

29.8

14.0

12.4

100

1975

10.9

3.9

+12

+14

1978

40.0

27.9

18.4

13.7

100

PASTA CLASS ANALYSIS

Change

+.9 -.7

-.3

+.1

6.7

1974

-44.8

+ 3.1

+40.5

+25

+25

1977

39.1

28.6

18.7

13.6

100

Dollars

Past

Dillars

I winds

Dollars

Pounds

Long Goods Short Goods

Egg Noodles

pecialties

Total

Fatail Price

Retail Price

Total Dry Grocery

Wholesale Distribution Industry The wholesale distribution industry 1978 (including food), in contrast to the +.5.8

+1.8

+4.0

+9

+1

+8

Change

+.8 -.9

+.1

Specialties

103

102

111

112

110

96 85

88

88

90 97

110

111

Current

17

26

22 26

21

23

25

39 (all)

39 (all)

Number of Markets

manufacturing sector of the economy, continues to be dominated by smallto-medium size closely-held, family owned business. Of the 202,000 merchant wholesaler-distributor corporations filing tax returns in 1973, 99% had assets of less than \$10 million. and accounted for about 65% of the industry's sales volume. The wholesale distribution business provides year-round employment for 3.5 million. In 1977, average hourly earnings (\$6.78) in wholesale trade exceeded those for all private industry (\$5.14) while average weekly earnings (\$212) were 15% above those in private industry (\$185). Industry sales in 1977 totalled \$532 billion and are expected to reach approximately \$665 billion in constant dollars in 1982, according to Commerce Department estimates.

Fewer Children

Lower birth rates and changing mi-gration patterns have had a marked impact on the age makeup of state populations in the 1970's according to the U.S. Department of Commerce's Bureau of Census. Nationally, there was a decline since 1970 of about 2 million (11.2%) in the under 5 population and about 3.5 million (6.7%) in the populations 5 to 17. The decline was particularly sharp for the Northeast and North Central states. In the South and West, population losses in these age groups due to declining fertility were offset by migration gains. Florida, Nevada and Arizona continue to lead the nation in percentage gains of those 65 and older. Since 1970 the older population has grown considerably, now representing 10.9% of the population. The slowest growing segment during the 1970's is the 45 to 64 group, reflecting the low birth rates of the Depression years.

The Great Atlantic & Pacific Tea Agree to Disagree

Company has announced a new con-"We are ach other's compatriots, solidation of operations, closing 174 not energies. There's no room or reasupermarkets and "certain bakery and son for hatred for our political and manufacturing operations." This in- economic system. We should be able cludes a bread and cake plant at to disagree without being disagree-Altoona, Pa. and pasta operations at able."-Thomas Murphy, chairman of the General Motors Corp.

20

BUHLER-MIAGONG GOODS LINES Performance Yocan Depend On!

eliable Performance

d supervision.

No heat bridges. acteria Control

ideal extrusion area for a given capacity.

ontrolled by one variable speed drive.

quiring an absolute minimum of maintenance.

fficient Energy-Saving Design

optional). A most energy-efficient design!

fast cleanout and service. **Quality Product**

Sturdily-constructed 2- or 4-stick spreaders allow selection of

Spreader, Dryer and Stick Storage are continuously driven and

All stick conveying chains and drives are heavy duty and con-tain automatic tensioners. Dryers have lubricating systems re-

utomatic climate controls ensure proper conditions at every tage. Zones are completely separated, cutting down on requir-

Motors, sprockets and drive chains, in addition to electrical and climate controls, are standard U.S. components.

New dryers are smaller sized. High temperature and high humidity drying requires a minimum volume of fresh air. Fan motors for air circulation are mounted inside dryers, utilizing

100% of electrical energy. (New style, energy-efficient motor is

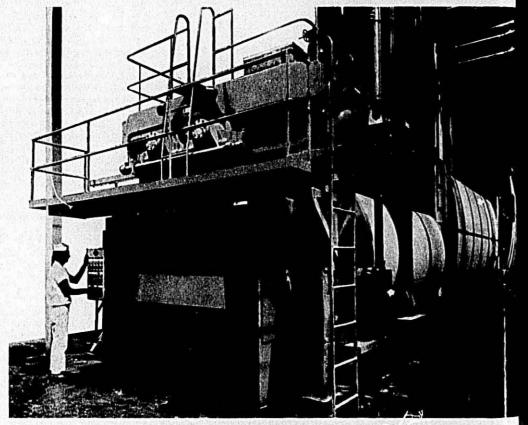
Panels are 1%" thick with polyurethane foam core. Aluminum lining on inside for heat reflection and absolute vapor barrier.

Hich temperature drying controls bacteria growth. Dry bulb temperature is adjustable from 100 °F to 180 °F. Drer is absolutely tight, yet easy to clean, maintain and superi). Swing-out side panels extend entire dryer length, allow-

h drying temperatures in both final drying stages improve

S ady, high temperature drying ensures a straight product, ic al for the high speed packers of today. The high humidity d ing climate gives the product an appealing golden color.

juct texture, cooking quality and appearance.



Long goods line with maximum capacity of 3000 lbs/hr. Line consists of Double Screw Press TF Bi Spreader TSSA, Dryers TDEC-3/TDCA-4/TDFB-11, Stick Storage TAGB, Cutter TST and Stick Return.

Three Standard Models . . . 500 to 4500 lbs/h act us for information on Buhler-Miag Long Goods nes and other Macaroni Processing Equipment.

LONG GOODS DRYERS

MODEL	CAPACITY
TDEC/TDCA	500 to 1000 lbs/hr.
TDCA/TDCA	1000 to 2500 lbs/hr.
TDCA/TDFA	2000 to 4500 lbs/hr

Product quality and consistency sell. **Buhler-Miag quality** and reliability give you the selling edge.

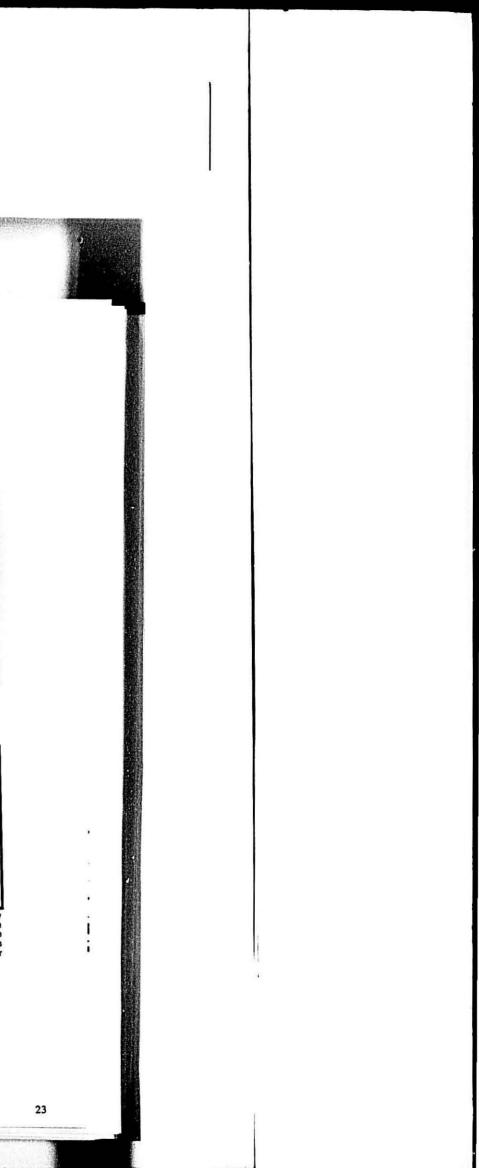
JUNE, 1979 THE MACARONI JOURNAL



Super sanitary design for easy maintenance. All-plastic panels swing out for easy access to all machine parts. Extra-thick polyurethane insulation and off-the-floor construction prevent col

Each spaghetti strand travels exactly the same path, so you can count on consistent drying results. Positive control stick elevator keeps sticks from rolling or sliding from transfer point to the drying tiers.

UHLER-MIAG BUHLER-MIAG, INC., P.O. Box 9497, Minneapolis, MN 55440 (612) 545-1401 BUHLER-MIAG (Canada) LTD., Ontario (416) 445-6910



SENATOR GEORGE MCGOVERN SPEAKS TO THE FOOD GROUP Washington, D.C., March, 1979

The word "nutrition" first entered our political vocabulary in the early 1960's. At that time "malnutrition" was equated only with the problems of the hungry. Clearly that was the Nation's most urgent nutrition problem - to get food to those who were without.

In his 1963 farm message to Congress, President Kennedy asked for legislation to expand and make permanent the pilot food stamp program he had initiated by Executive order in 1961. President Johnson cited the food stamp program as one of a number of measures "to protect those who are especially vulnerable to the ravages of poverty." In 1964 the Congress passed legislation establishing the food stamp program on a permanent basis.

In 1968 the CBS documentary "Hunger in America" brought the face of malnutrition into American homes with a heart-rending impact on our national consciousness.

The Congress again responded.

Select Committee

Acting on a resolution which I introduced, my colleagues in the Senate created the Select Committee on Nutrition and Human Needs "to study the food, medical and other related basic needs among the people of the United States".

- In the decade that followed:
- The food stamp program was expanded to all 3,000 countries and approximately 16 million persons.
- · A uniform, national free and reduced-price school lunch program was created in 1970.
- · Other feeding programs were developed to reach the very young and the very old.
- A special program for women, infants and children was launched

As we became more knowledgeable in the area, we began to enlarge our definition of the word "nutrition". We grew to realize that there were two faces of malnutrition in the United States: The problems of undercon-

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well as the illnesses that can affect us micro-nutrients, protein and total all as a result of a poor diet or exces- energy in the diet, are now in their sive consumption of food.

Policymakers in Washington started to think of nutrition not as a "fad." but as an important policy area with major implications for both American agriculture and the health status of the Nation.

The first witness before the Select Committee on Nutrition in its series of hearings on the relationship between diet and health, begun in July 1976, was the then Assistant Secretary for Health, Dr. Ted Cooper.

He told the Committee:

"In formulating health policy, I believe that we have now reached a crucial point.

"Many of today's health problems are caused by a variety of factors not susceptible to medical solutions or to direct intervention by the health provider.

"While scientists do not yet agree on the special casual relationships, evidence is mounting and there appears to be general agreement that the kinds and amount of food and beverages we con-sume and the style of living common in our generally affluent, sedentary society may be the major factors associated with the cause of cancer, cardiovascular disease, and other chronic illnesses.

In concluding the series of hearings year later, the present Assistant Secretary for Health, Dr. Julius Richmond, concurred with his predecessor.

In all, 6 of the 10 leading causes of death were linked to diet. It was this realization, more than anything else, that lead to the publication of Dietary Goals for the United States in 1977 and the updated second edition later that year.

Dietary Guidelines

The concept of setting dietary guidelines has been well established since 1943 when the Food and Nutrition Board of the National Academy of Sciences set forth "Recommended" Dietary Allowances" (RDA) for the are processed food products, the buysumption resulting from poverty, as first time. The RDA, which focus on er is in need of sound, useful nutri-

eighth edition and were most recently revised in 1974. Dietary Goals for the United States simply extended to macro-nutrients the same approach the NAS had been using for years with regard to micro-nutrients.

I cannot envision the Congress legislating specific national dietary guide-lines. The Dietary Goals Report was intended as the Commit tee's best advice on how to minimiz the disease risks associated with our current diet. The Dietary Goals should be viewed in an ongoing context as part of the evolution of a national nutrition policy.

Where Are We?

Now where has the last decade taken us?

How do we continue to piece to gether what amounts to a national food and agriculture policy?

First, we must continue to monitor and improve our national food programs.

The school breakfast program available to only a small percentage of those students who participate i the school lunch program.

The WIC program, the special supplemental food program for preg-nant women, infants and children, deserves to be expanded based on the remarkable medical evaluations it is producing.

This year there will be a milor effort to repeal the current specific authorization ceilings in the food stamp statute in order to allow he program to maintain its present level of assistance. If the food stamp c iling is not modified, benefits will have to be reduced 15-20% - and probably twice that much - during much o FY 80. Finally, many important questions must still be addressed with regard to other feeding programs.

Nutrition labeling is clearly a u mary public concern whose time h With approximately 18,000 come. food items offered on today's supermarket shelves, of which a majority

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aformation in order to make a informed choice. recent survey by Yankelovich,

and White found that:

interest in nutrition . . . is growig in giant leaps and bounds ith 77% of the consumers inerviewed indicating that they are more interested in nutrition than they were a few years ago. "Information about nutrition is more modest, with only 24% of the public indicating they consider themselves to be wellinformed on the subject: 63% fairly well-informed; and 13% not well-informed at all."

Nutrition Labeling

On February 23rd, the Nutrition ommittee completed the overight part of its nutrition labeling and mation hearings. Those hearings ed to the formulation of the following ction principles:

A balanced diet is a critical factor in preventing disease and maintaining good health.

Individual foods, and meal patterns are the critical building blocks of one's total diet, and on a nutrient density basis, some foods are more nutritions than others.

Macro-nutrients - ist, carbohydrate, protein and alcohol - are equally, if not more, relevant to day's health problems than icro-nutrients.

dustry has a responsibility to ve consumers the tools and inrmation with which to determine ily how individual foods, food ducts, and meals fit into their al diet.

levant, objective nutrition label-1. which includes a concerted ort to educate the public on w to use the nutrition informan on the label, is part of the wernment's obligation to facilite communication.

utrition labeling efforts to date ave confused the regulatory and formation functions thereby undermining the objective of providing accurate and useful nutrition information.

In order to be comprehensive, a nutrition labeling and information program should include, at a minimum, packaged and processed foods, fresh foods and fast foods,

8) A nutrition labeling system that uses standardized values in a uniform labeling format adequately satisfies public health concerns, would reduce systemic costs by providing greater flexibility and ncrease the access to nutrition information.

Finally, we must protect the consumer's right to know what is in the foods they select as well as their right to choose those foods which they desire to eat.

I believe we are in a good position to pass legislation this year that meets the needs of all concerned parties. There is a concensus that the system should move towards standardized, representative values. FDA has agreed to work with the fast food ndustry, and USDA with the perishable food producers, to develop nutrition information systems that are consistent with the labeling of packaged foods. I think consumers and indus try alike will benefit for no additional cost. In fact, the proposed reforms could be less costly than the current labeling system. Thus, we are seeking and expect to receive industry support for this legislative initiative.

Nutrition Education

A less visible but important longterm concern is nutrition education for medical students, and the training of researchers in human nutrition. If we are going to alter our current medical practices towards a more preventive approach, it is critical that nutrition and other health promoting tools be taught to both our new physicians and those who already are practicing medicine. In particular, it has been said that, "If the doctors of today do not become the nutritionists of tomorrow, then the nutritionists of today will become the doctors of tomorrow.

If we are going to bring the present research emphasis around to a preventive mind set, then one necessary action is to encourage the training of new researchers who view nutrition as their primary investigative focus. To date the Subcommittee has held two hearings on nutrition education in medical schools, and we plan to continue our investigations in this potential to slow the escalation of critical area.

Nutrition Research

The 96th Congress will continue to support the growth of human nutrion research. Three reports in the last year have emphasized the need for more nutrition research. The Congress last year agreed to develop, under the direction of the Department of Agriculture, two more major human nutrition research laboratories at Tufts and Baylor Universities.

There have been encouraging signs at HEW as well. Dr. George Bray recently became the department-wide nutrition coordinator, and NIH proposed to establish ten clinical nutrition units over the next 12-18 months. At the same time, I find it very un-

settling that, even though 70% of all deaths in this country result from chronic illnesses in which nutrition is a risk factor, Dr. Fredrickson, the NIH Director, has no plans to increase NIII's nutrition research investment above 3% of the total budget.

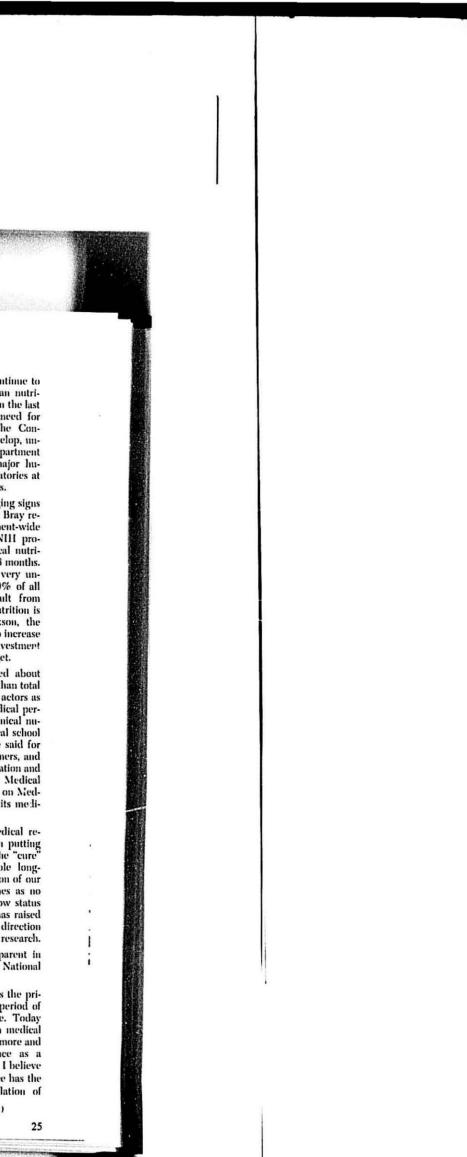
Thus, I am still concerned about what I believe to be the less than total commitment by such critical actors as NIH to alter established medical percention about the role of clinical nutrition. In light of our medical school hearings, the same could be said for the Board of Medical Examiners, and the American Medical Association and the American Association of Medical Colleges' Liaison Committee on Med-

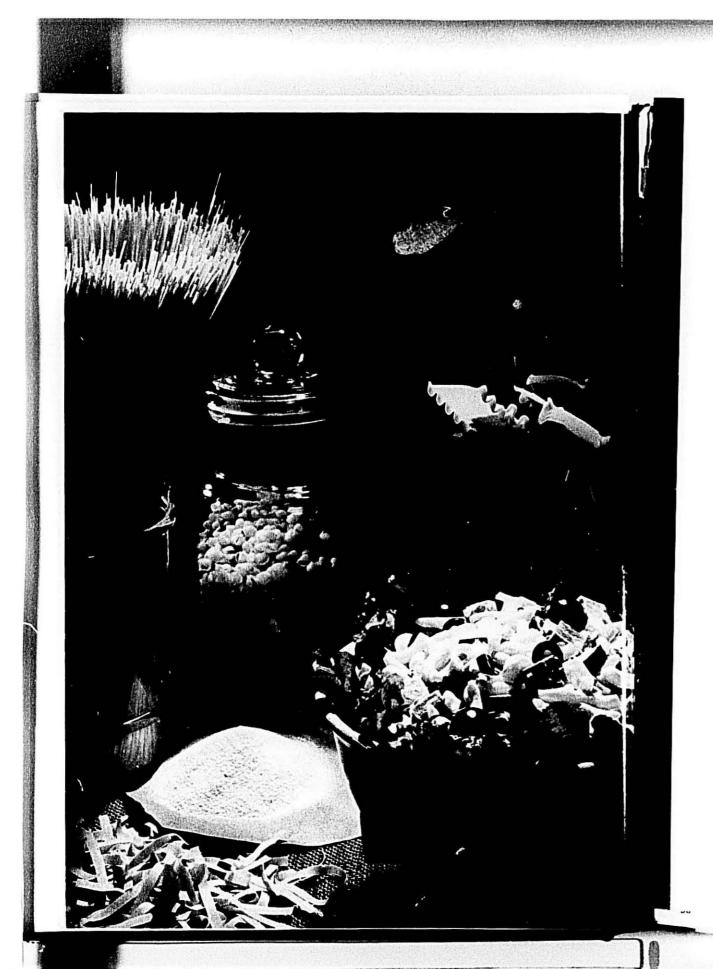
ical Education which accredits medical schools. As one result, the bio-medical re-

search community persists in putting the bulk of its marbles in the "cure" basket when the most viable longterm solution is the prevention of our killer diseases. Thus, it comes as no surprise that the generally low status afforded nutrition research has raised grave misgivings about the direction of this Nation's bio-medical research.

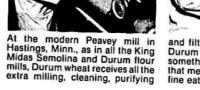
This same problem is apparent in the current discussions about National Health Insurance (NHI).

Access to medical care was the primary concern in an earlier period of the health insurance debate. Today we face rampant inflation in medical care costs, and thus we hear more and more about health insurance as a means to contain these costs. I believe that national health insurance has the











Sinator McGovern (Continued from page 25)

edical expenses. But we must not rget that insurance is a financing inchanism which principally deter-nines who shall pay, and does not ecessarily address health care practices. It is my opinion that it should do both.

As our experience with medicare and medicaid has so vividly demonstarted, in order for health insurance to lessen medical care costs to the desired degree, we must simultaneously address the basic lifestyle patterns associated with our chronic degenerative disease - heart disease, cancer, stroke, and diabetes. Otherwise, what we call national health insurance might actually establish only a national medical care insurance program which by itself will neither reduce our medical costs nor solve our health problems. National health insurance will not succeed and could even prove to be a fiscal nightmare if it and our national health programs do not include the concepts of health promotion and disease prevention

Clearly, nutrition is a vital weapon in maintaining one's health, and in healing the sick. Thus, I cannot overemphasize the importance of including health promotion provisions and incentives in any insurance package that we develop. For example, besides reimbursement for both in-patient and out-patient nutrition counseling, perhaps there should be non-reimbursement in cases of hospital caused malnutrition.

Food Safety

Lastly, there is the question of how to proceed in developing a consistent and reasonable food safety policy. The saccharin debate in 1977, and the nitrite findings in 1978 have intensified public interest about the chemicals being added, purposefully or inadvertently, at the various stages in the food production chain.

Much attention has been centered on the Delaney clause and whether it is still a reasonable or useful regulatory mechanism. But I suspect that our energy is being misplaced. I am concerned that our sporadic, crisisoriented excursions into the issue of chemicals in our food lack perspective. I am disturbed that the absolutely-no-risk-of-cancer position detional discussion about what is the our foods.

An even more critical question, and one which is as yet essentially unexamined, is how do the risks from the various chemicals, single and in total, compare to the risk from the amount of fat, sugar and salt that we consume? Finally, it is not clear that the means even exist with which to determine the relative risk beween, say, be involved, I look forward to connitrites and pesticides, or saccharin and dietary fat.

In short, we must recognize that the consumer is interested in the healthfulness of the total food supply. In addition to the absolute and relative risks of individual foods and food additives, consumers want to know if they are eating as healthy a diet as the American farmer can produce?

Thus, our perception of what is safe is undergoing some significant modifications.

Just as the Congress must take responsibility to encourage a practical and comprehensive nutrition labeling and information system, we must also begin to articulate a sound food safety policy. No longer can we accept the rather narrow, legalistic definition of safety. It is time to incorporate into our original concepts of a safe food supply the broader understanding of how our food system can be most helpful. This undoubtedly will be a multi-year process, and will require the time and cooperation of government, industry and the American public. The Agriculture, Nutrition, & Forestry Committee will be in the forefront of this effort beginning with

Conclusion

hearings this year.

In conclusion, we have made great strides during the last decade in fashioning a national nutrition policy. The result could not be viewed as perconceived or rigorously consistent. Rather, as is often the case with the development of a national policy, it reflects many individual decisions, and executive actions, judicial rulings and legislative initiatives. But no matter how one characterizes it, there definitely is a policy being formulated.

An agriculture, food and nutrition

manded by the Delaney clause is energy policy or a water policy or an causing myopia and preventing ra- urban policy. It is important to our health, our farm economy, our balrelative risk of various chemicals in ance of payments, and our environment.

> In the past, success in the nutrition policy arena has been largely measured by the growth of the major Federal food programs. Our achievements in the next decade will be gauged more by how well we meet the challenges outlined above. While I cannot speak for all the parties who may tinued creative and energetic leadership from my colleagues in the Congress. By working together we can't help but succeed.

Reasons for Vitamin Enrichment

Cereal fortification is not a solution to the problem of malnutrition, but it is an important step every country should consider for improving nutrition, Peter Ranum, laboratory director, Pennwalt Corp., Broadview, Ill., said at the Sixth International Cereal and Bread Congress in Winnipeg.

Data presented by Mr. Ranum appear to show that "white flour," defined as flour made with an extraction rate of not more than 80% and an ash content of not more than 0.8%, has become quite common throughout the world. Countries which show evidence of nutritional deficiencies should consider fortifying this type of flour with the deficient nutrients, he said

Mr. Ranum, who collaborated in his presentation with Karel Kulp, American Institute of Baking, Manhattan, Kas., and Fred F. Barett, Department of Agriculture, Washington, spoke on "Fortification of Wheat Flour with Vitamins and Minerals." He stressed that while there is no single solution to the problem of malnutrition it has been proven that wheat flour forti-Scation is technically and economically feasible and has proven effectiveness "in reducing nutritional deficiencies."

Cost of Fortification vs. Malnutrition

"We cannot estimate cost of malnutrition but there can be no question that for many it results in ill health, inability to support oneself and a policy is every bit as important as an need for institutional care, all of

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which add up to many times cost of a cereal fortification program," he

100

Mr. Ranum in his conclusion presented a theoretical example in which an imaginary country of 20 million persons with a per capita white flour consumption of 120 lbs a year instituted a fortification program to help relieve niacin, vitamin A, iron and zinc deficiencies

"It is decided that wheat flour should be fortified with niacin, iron and zinc to restoration levels and vitamin A added so as to supply 20% of the dietary requirement," Mr. Ranum said. He estimated the cost of this program would be \$1.55 per tonne of flour and this, he maintained, works out to a total annual cost, including equipment and administration expenses, or around \$1.8 million per year or about 9¢ per person per year. In this connection, he noted that the cost of two F-15 jct fighters would equal the expenses of running this program for an entire generation. Even if you look at it as a national defense measure, cereal fortification may be more cost-effective than these fighters," he said.

Starting a Program

Reviewing how a developing nation can start a cereal fortification program, Mr. Ranum noted that both technical and financial start-up assistance are available for developing countries. The World Bank and the U.S. Agency for International Development are two such sources of assistance, he said. Developing countries also can take advantage of fortification provided under the U.S. Food for Peace Program, he said. Most Title II commodities donated under this program are vitamin and mineral fortified and if the purchasing country makes the request, Title I commodities will be fortified with the additional cost borne by the U.S. government. He added that this provision under P.L. 480 (Section 114(b)) is rarely used by countries qualifying for Title I purchases.

estimates on the cost of fortifying wheat flour with various nutrients. The most expensive nutrients are vitamin A and magnesium," he pointed out. The cost of adding calcium and the flour replacement savings accrued JUNE, 1979

% of Dietary (US RDA)/100

tion		10%	20%
Thiamin	14c	lc	7c
Riboflavin	12c	9c	22c
Niacin	34c	7c	25c
Vitamin B6	4c	10c	24c
Folic Acid	3c	3c	6c
Pantothenic Acid	18c	15c	36c
Vitamin A	-	53c	\$1.06
Iron	7c	30	9c
Calcium	•5c	*20c	*40c
Magnesium		**62c	
Zinc	8c	3c	10c
• Plus or minus.			

** Not technically feasible. *** More than.

to the miller, he added. For calcium fortification this can actually result in net savings if an inexpensive local source of calcium is available, Mr. Ranura said.

Cost of Wheat Flour Fortification

Cost of wheat flour fortification in cents per tonne where the goal is to restore nutrients to the original level found in wheat or to supply a fixed percentage of U.S. Recommended Daily Allowance (10% or 20%, assuming daily consumption per person of 100 grams of flour) was presented as follows by Mr. Ranum in a slide presentation:

Recalling the theme of the Congress, "Better Nutrition for the World's Millions," Mr. Ranum stressed that cereals play a crucial role in feeding the world.

"In order to achieve this goal we need effective and practical programs for improving both the quality of cereals available and the quality of cereals consumed," he said.

"Cereal fortification, the addition of needed nutrients to basic cereal staples like wheat, corn and rice, is one of the oldest and most effective methods for improving the nutritional quality of the diet."

Mr. Ranum pointed out that both the United States and Canada have Mr. Ranum also gave his audience proposed expanding their current cereal fortification programs to include additional nutrients. "Added vitamins have been shown to be quite stable in storage and baking," Mr. Ranum said. He added that one quesmagnesium is reduced somewhat by tion previously uninvestigated is whether they are stable in the pres-

ence of typical wheat flour treatments used to improve baking quality. In this study, flour was supplemented with seven different vitamins and subjected to six commonly used flour treatments agents added in different combinations. These were added at normal and up to 16 times normal treatment rates to insure finding an effect if one might be present.

"No significant loss in any of the vitamins occurred within the normal assay error," he said. "Chlorination caused some loss of vitamin A, B6 and folic acid, but even these losses were small enough to be acceptable. The use of bleaching, maturing and oxidizing agents is thus quite compatible with vitamin fortification."

Two Reasons for Fortification Mr. Ranum pointed out that traditionally there have been two different reasons for fortifying cereals:

"One is to restore those nutrients removed by the milling process providing that there is evidence of tential risk of deficiency within the population.

"A second rationale is to use the cereal as a carrier for deficient nutrients. Here any nutrient, regardless of whether or not it is naturally present in wheat, may be added at whatever level is required to prevent a nutritional deficiency."

Based on Nutrition Needs

Types and levels of nutrients used a cereal fortification program should ideally be based on nutritional needs and per capita consumption of the cereal to be fortified in the target population, he said.

"Because such data is not always available, or difficult and expensive to obtain, some countries simply restore deficient nutrients back to the original level contained in wheat," he noted. "Such fortification should take into account the natural levels of the nutrients contained in the flour produced. These levels will vary depending on the types of milling practice in use."

Mr. Ranum noted that in a recent study on the nutrient composition of internationally milled flours, about 80% of the flours collected had a flour ash of 0.8% or lower. These flours had an average nutrient score about a third that of whole wheat flour. Only



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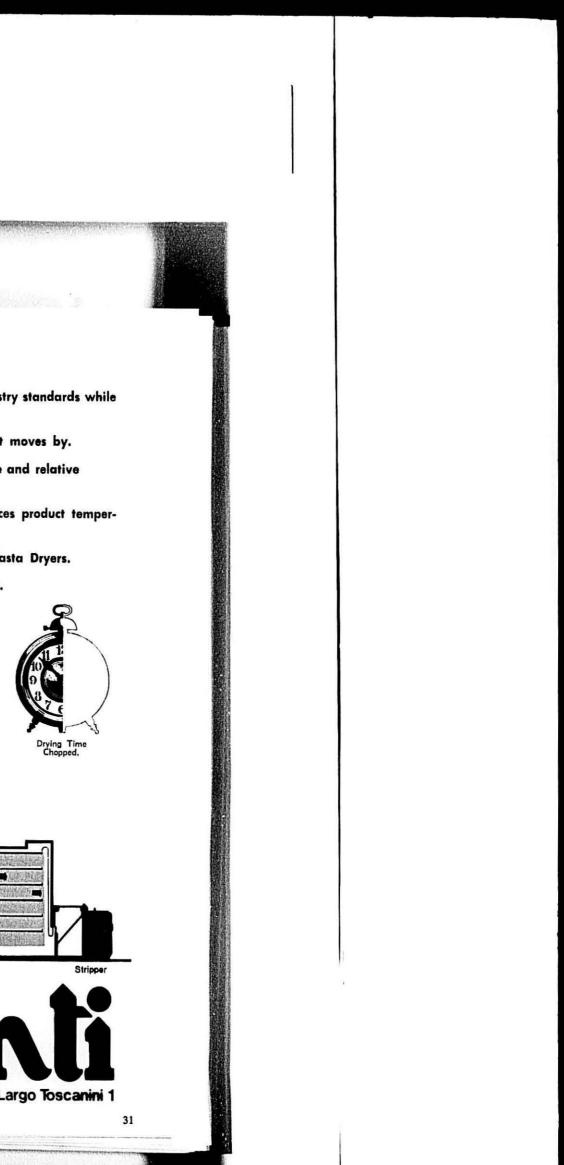
ature to a safe packaging point.

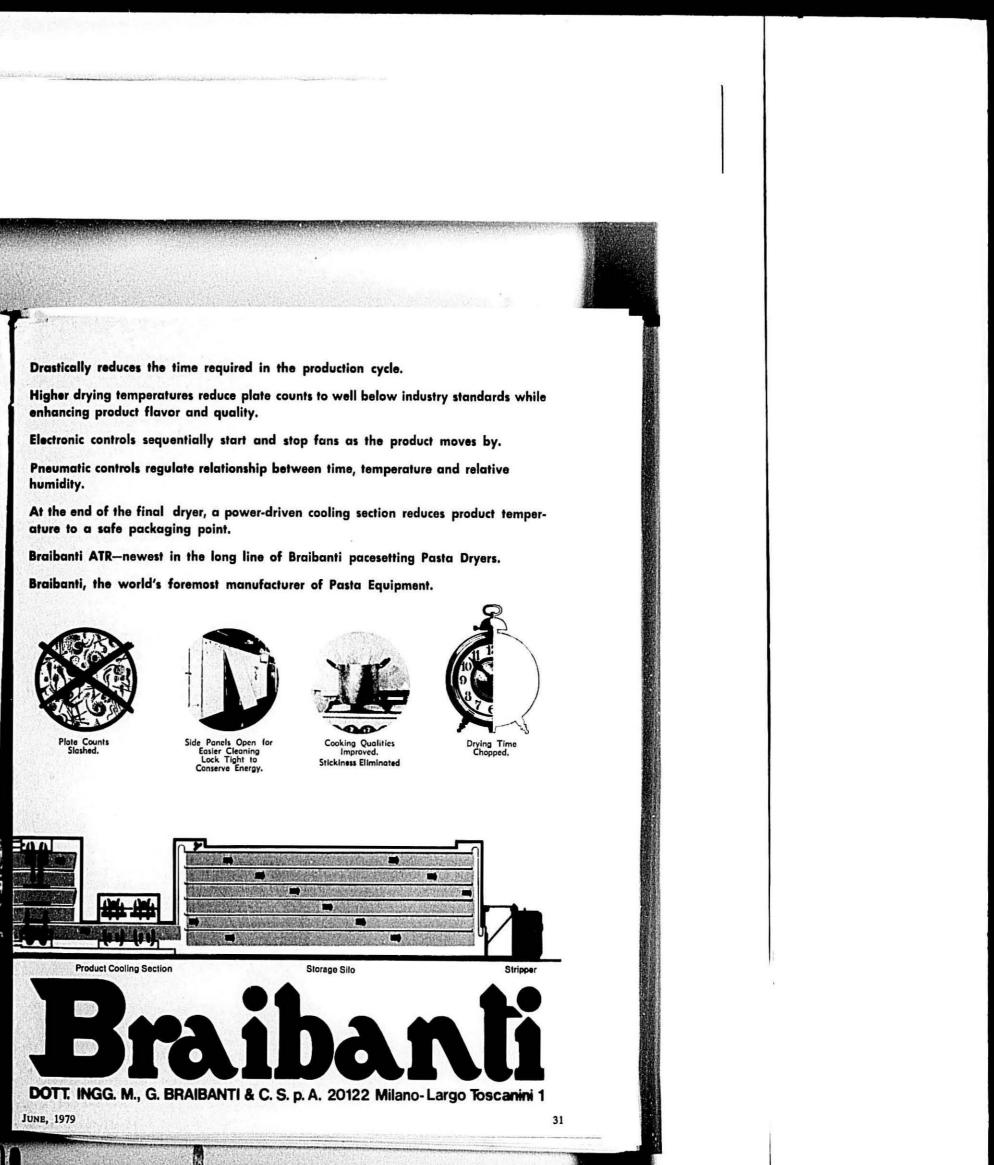
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Final Dryer

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Reasons for Enrichment (Continued from page 29)

when ash was above 0.8% did nutrients show a significant gain, he said.

"While this sample collection can by no means be taken as representative of worldwide wheat flour production, it does illustrate that flour with a significantly reduced nutrient content has become quite common throughout the world," Mr. Ranum said. "This is the type of flour one would want to fortify on an enrichment basis."

School Lunch Tests **New Bread Patterns**

Administrators of public lunch programs have been authorized by the Department of Agriculture to voluntarily test new meal patterns which include increasing servings of bread and bread alternates and an expanded list of foods in the bread alternate category.

In an interim rule published in the Federal Register of Aug. 22, Carol Tucker Foreman, assistant secretary of agriculture, states that the new meal patterns may be used on a test basis until Feb. 2, 1979.

Secretary of Agriculture Bob Bergland, in proposing the new patterns in September, 1977, described the plan as offering the most significant changes in the national school lunch program since its inception in 1946.

More Bread

Schools will be permitted to in-crease the amount of bread or bread alternates on a weekly basis to students three years of age and older. The previous requirement that one serving (one slice) of enriched or whole-grain bread, or bread alternate, assistance to sales effectiveness. be served daily is replaced with a weekly serving requirement.

The new weekly requirement provides for five servings of bread or bread alternates to one and two-yearolds in the preschool group, eight slices in all other pre-school and elementary age groups to age 12, and 10 slices for students 12 years of age and older. Thus, students in the latter age group will be offered twice the amount of bread or bread alternates now served in a one-week period.

One-half slice of bread or an equivalent amount of bread alternate must be served with each lunch, with the total requirement being served during a five-day period.

Macaroni Alternate

The new patterns also add "enriched or whole-grain rice, macaroni, noodles and other pasta products" to the list of bread (enriched or wholegrain) alternates. The list of alternates previously included "biscuits, rolls, muffins, etc., made with whole-grain or enriched meal or flour."

The interim rule notice points out that U.S.D.A. received 408 comments in favor of expanding the bread alternate list and 72 opposing the plan. "The majority of those opposing," the notice says, "expressed that (1) too much bread/bread alternates was being specified as a serving; and (2) that bread should remain as a traditional component of a meal.

"One of the results of the Department's review of the Type A pattern was the recommendation to increase quantities specified in the bread/ bread alternate component to more accurately meet the nutritional needs of children for iron and other nutrients provided by bread/bread alternates. In response to the majority of favorable comments, this provision remains unchanged."

New School Food **Program Booklet**

The Food Research and Action Center (FRAC) published a new booklet providing an overview on how School Lunch and Breakfast Programs work. Write to FRAC, 2011 Eye Street, N.W., Washington, DC 20006 for a copy. \$1.00 per copy and 75¢ each for orders of 50 or more. Knowing more about the customer and how he operates can be of strong

Feeding a 260-lb. Lineman

Defensive linemen get paid to eat quarterbacks. To maintain their strength for that weekly chore, linemen must keeping up their weight by eating.

That's why Steve Furness, defensive tackle of the Pittsburgh Steelers, spends \$125 per week in Cattaneo's Shop 'N Save in McMurray, Pa. **Breakfast of Champions**

Furness starts his day with a hearty breakfast. "First, Steve has a bowl of

fruit," comments Mrs. Furness. "Then he'll eat five pieces of French toast, five sausage links, and some home fries. And if he's still hungry, which he usually is, he'll have a few bowls of cereal."

Furness needs food in his stomach before the daily practice, but the most important breakfast is the eight a.m. meal eaten with the team before the weekly Sunday game. This is eaten at the hotel where the players sleep the night before the game.

A pre-game breakfast includes steak, eggs, juice, toast and a lot of pasta. "Starchy foods are better for the stomach because they burn off slower, giving more energy on the field," Furness says. "We don't eat dinner until seven, so we need a lot of food in the morning." Not a light lunch

Noontime is a break in practice. The club serves lunch.

"It's a choice of hamburgers, hot dogs, chicken, rigatoni and other lunch foods. The players can eat all they want, but they never get any-thing good—like a corned beef sandwich."

After filling his belly with a few plates of lunchtime food, Furness practices until five p.m.

Wife Debbie prepares dinner. She was a home economics major at the University of Rhode Island. She cooks a different dish almost nightly, with her favorites being chicken tetrazzini and tzimmes, a Jewish dish made of comed beef, carrots, potatoes and a sugary sauce.

"Steve likes to eat fattening things, so I serve a lot of pasta and meats with sauces," says Debbie. "We often have things like potatoes au gratin because Steve needs that extra cheese in his diet."

No. of Contraction

Furness drinks beer with a milk chaser with his evening meal.

Steve often cooks on the grill in the backyard. "We cook out almost every night in the summer," explains Debbie. "Steve likes charcoal broiled steaks so much that at least once a week in the winter he will put on boots and go out in the snow to grill his steak."

Mrs. Furness heavies up on stews and hearty soups in the winter. "I always cook double to freeze things, she notes. "But it's hard to have leftovers when you're married to a football player.'

BIN STORAGE

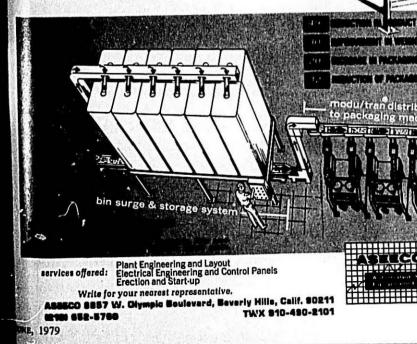
A fully automatic bin storage system for free flowing materials — Product is con-veyed from processing into the Aseeco Bin Storage System by means of conveyors. The operator can fill any bin by operating a selector switch at floor level. In a few hours, when the bin is full and a signal is actuated, the next bin can be selected manually or automatically. Material is discharged from bins on de-

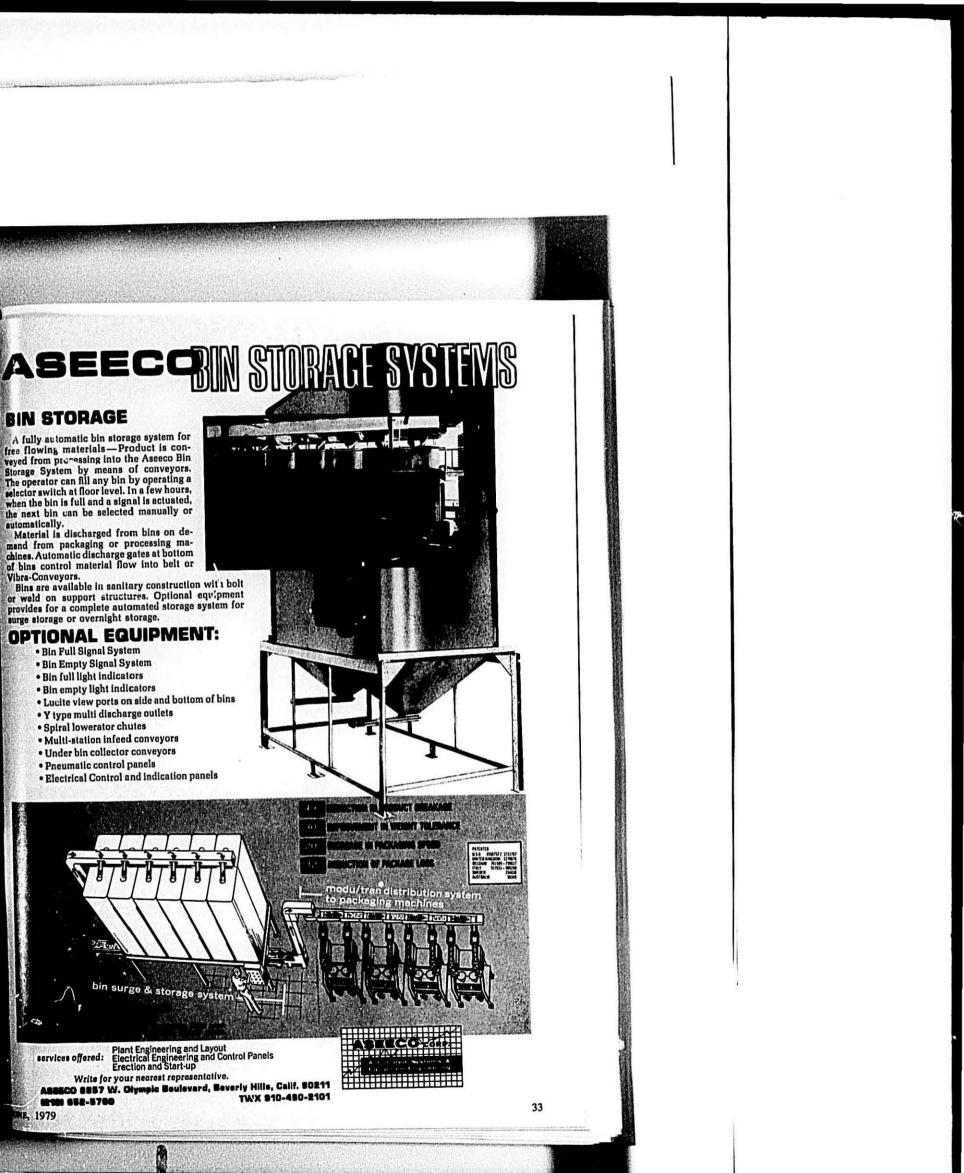
mand from packaging or processing ma-chines. Automatic discharge gates at bottom of bins control material flow into belt or

Vibra-Conveyors. Bins are available in sanitary construction wit's bolt or weld on support structures. Optional equipment provides for a complete automated storage system for urge storage or overnight storage.

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- Bin Empty Signal System
- Bin full light indicators
- · Bin empty light indicators
- Lucite view ports on side and bottom of bins
- Y type multi discharge outlets
- Spiral lowerator chutes
- Multi-station infeed conveyors
- Under bin collector conveyors
- · Pneumatic control panels
- Electrical Control and indication panels





The Food Dollar -Where It is Spent

Food Institute Staff Analysis

American consumers spent \$186.4 billion on domestically grown food producsts in 1977. This was \$7.6 billion or 4.3% more than in 1976. The analysis that follows will be as objective as possible, considering that USDA continues to make revisions in past released numbers. In future Weekly Digest's expenditures on a commodity-by-commodity basis will be discussed.

All of the figures here pertain only to domestic farm-originated food products, and do not include imported foods, seafoods or other foods not of U.S. farm origin. Obviously, they also do noot include alcoholic beverages or nonfoods. Therefore, the totals will vary from those issued by other statistical reporting services, such as the Department of Commerce.

Away from Home Increases

In 1977, 67.4% of the cosnumer expenditures for food were made in retail food stores. This represented \$125.6 billion, which was 2.5% greater tha nthat spent in 1976. The awayfrom-home market posted a 7.9% gain from the previous year with \$60.8 billion spent, an overall share of 32.6% of the food dollar. Of the foodservcie dollars spent, public eating places accounted for \$49.3 billion, or 81.2% of this total, while institutions had 28.8%. (Revised 1976 figures show the breakout was 89.9% for public eating places and 19.1% for institutions

strict dollar basis-domestic farm foods only, consumers allotted 29.7% of their food dollar to the away-from-Who Got It All? home market in 1970. In the follow-

ing years it moved to 29.9%, 30.6%, and down to 29.1% n 1973. However, share started back up in 1974 at 29.4%, then to 31.4% the following year, to 31.5% in 1976 and last year was pegged at 32.6%. Over the past eight years the share of market has averaged 30.5%; an dthis is only the allocation of consumer expenditures, not reckoning with the actual volume of foodstuffs included in the total bill. aged 30.5%; and this is only the allo-

cation of consumer expenditures, not reckoning with the actual volume of foodstuffs included in the total bill.

An examination of the farm value of foods consumed away-from-home perhaps presents a clearer picture of the physical volume of goods going into this segment of the industry. In 1977, farmers received \$57.5 billion for the products they produced, down \$107 million from the previous year. The away-from-home market accounted for 18.6% of these dollars. As for advertising, in 1977 and 1976 up from the revised 18.4% in 1976. Public eating places accounted for 14.7% of the farm dollar, with 3.9% going to institutions.

Thus, since 1970 the regular grocery trade has been accounting for between 68% and 71% of consumer dollars and from 81% to 82% of the farm value. The away-from-home

It is popular in the food industry to markets have been taking 29% to 32% talk about the continuing growth in of the consumer dollars-with the away-from-home food sales. On a trend decidedly on the upside- und between 18% to 19% of the f m dollars.

> Farmers received \$57.5 billion, or 30.8% of the total. This compares with a revised 32.2% in 1976 and 32.0% ten years ago. Labor's share of the total marketing bill was 32.2%, amounting to \$59.8 billion. This compares with 30.2% in 1976 and 28.7% in 1967. At any rate, farmers and workers accounted for 63.0% of the consumer dollars spent on food in 1977. (Revisions of the 1976 figures were not nearly as drastic as they were last year when USDA revised labor's share down sharply for a number of years past, and added to the residuals. USDA now has revised figures that go back to 1947.)

Packaging and advertising costs are often pointed out by consumerists as adding inordinately to the cost of the food market basket. In 1977, packag-ing materials amounted to \$16.2 billion, and were 8.7% of the consumer bill. Ten years ago, packaging ac-counted for 8.0% of the marketing bill. it accounted for 1.5% of consumer expenditures; ten years ago it was 1.6% (these shares have been measurably revised since last year.)

Pass Through Items

There are many other "p through" items involved in f id marketing, such as transportat in

WHERE THE FOOD DOLLAR GOES (Source: U.S. Department of Agriculture)								
Billion Dollars:	1977	% of Total	1976	% of Total	1972	% of Total	1967	% of Total
Farmers Labor Packaging materials Rail and Truck ¹ Business Taxes ² Depreciation Rent Advertising Buseine Bed dobu	\$ 57.5 59.8 16.2 10.0 5.1 3.7 3.5 2.8	30.8 32.2 8.7 5.4 2.7 1.9 1.8 1.5	\$ 57.6 54.0 15.0 9.5 4.8 3.5 3.2 2.7	32.2 30.2 8.4 5.3 2.7 2.0 1.8 1.5	\$ 39.1 37.4 10.2 6.1 3.3 2.3 2.0 1.8	32.9 31.5 8.6 5.1 2.8 1.9 1.7 1.5	\$ 28.8 25.9 7.2 4.3 2.4 1.8 1.5 1.5	32.0 28.7 8.0 4.7 2.7 2.0 1.6 1.6
Repairs, Bad debts, Contributions Interest Residual ³ Corporate income tax Corporate net profit	2.1 1.6 15.6 4.0 4.5	1.2 0.9 8.4 2.1 2.4	2.0 1.5 17.1 3.7 4.2	1.1 0.8 9.6 2.1 2.3	1.3 0.7 10.6 2.1 1.9	1.1 0.6 8.9 1.8 1.6	0.9 0.4 12.4 1.6 1.8	1.0 0.4 13.7 1.6 2.0
Total Consumer Expenditures	\$186.4	100.0%	\$178.8	100.0%	\$118.8	100.0%	\$89.9	100.0%

Excludes charges for local hauling, includes charges for heating and refrig ² Property, social security, unemployment, insurance, state income and franchise taxes, license fees and other fees but not Federal inco

3 Foodservice ospitals and other institutions, utilities, fuel, local for hire transportation, and other costs not sho separately.



After 25 years, it's still number 1.

Wenty-five years ago this year, GATX introduced the Airslide Car.

Based on an extremely simple and ingenious idea, it allowed shippers unload finely divided commodities, like flour, sugar and starch, more easily d quickly than ever before possible.

Today, 25 years later, the Airslide Car is still the most widely used car its type in the U.S., with 14,060 cars built to date and additional cars now n order. It continues to be produced annually, to meet a demand that lives n and on.

And no matter how hard transportation engineers try, they have yet to Ivent a more efficient, economical or reliable covered hopper for finely divided commodities.

This year, GATX proudly celebrates the anniversary of a product with a record that is quite probably unequalled anywhere in the railroad industry:

The Airslide Car, still number one after 25 years.

General American Transportation Corporation/120 South Riverside Plaza/Chicago

UNE. 1979 THE MACARONI JOURNAL







Where Food \$ Goes (Continued from page 34)

business taxes, depreciation, rent, insurance and so on. After all of these expense items, corporations were able to earn \$4.5 billion in 1977 after taxes-and that is all corporations, from packers and manufacturers through wholesalers and retailers-or 2.4% of the total spent by American consumers. This compares with a revised 2.3% in 1976.

Much of the above information can be found in the U.S. Department of Agriculture's Agricultural Outlook (November). There is a more detailed accounting on file at USDA (much of which used to in the now defunct USDA have and Transdefunct USDA M and Transportation Situation). Ine Food Institute has drawn on this material for some of the statistics shown here.

Fast Food Takes Bigger Bite

Sales at fast food restaurant chains may expand by 20 percent this year as more people stop for quick hamburgers, pizzas, steaks and chicken, the U.S. Department of Commerce states.

More of the nation's grocery chains are countering the threat by installing their own carry-out operations, in cluding delicatessen counters, the Department added.

"With 35 cents of every food dollar going to food eaten outside the home. grocery chains are planning extensive sales campaigns to fight the fast food encroachment," it said.

"A number of supermarkets are even installing sit-down restaurants in their stores while others are opening restaurant chains of their own.

In a report on business franchises, the department said, "The franchised fast food restaurant continues its success and popularity and more dramatically than ever has made a major impact on the food service industry."

These restaurants are expanding their menus to get more breakfast and dinner business, the department said

It said sales of franchised fast food restaurants reached \$21 billion in 1978, up 17 percent over a year earli- and lamb specialty are broiled and er. That is about \$100 for every adult and child in the United States.

20 percent to \$25 billion in 1979, the salad bar. The second one will be

report said. Part of the increases may reflect higher prices.

The number of franchised fast food restaurants increased from 51,972 in 1977 to 57,878 last year. There will be about 66,000 units this year.

"The highest concentration . . . continues to be in California, Texas and Ohio," the department said. Employ-ment in fast food franchising was 1.23 million in 1977.

"The trend today is to build brand loyalty for fast food chains in the same way manufacturers build brand loyalty for their products," it said.

A Kitchen for Customers

From the architectural magazine "Kitchen Planning"

At the Pasta Mill, New Brighton, PA. customers are invited into the kitchen to place their order and watch cooks prepare and serve it on the spot. While the restaurant uses a cafeteria type counter to channel traffic, the difference is that Pasta Mill "sells" its food right from the cooking and preparation stations. There are no waitresses or waiters. Customers watch pasta and other hot dishes being prepared fresh-inches awayand order directly from the cooks.

The Idea Works

The idea works-so successfully, in fact, that since his restaurant opened in October, 1978, owner Louis Pappan has realized a 25 percent bigger gross than the \$8,000 weekly he anticipated. He reported one week's receipts were \$18,000. And plans for expansion are already in the works with Pittsburgh slated as the site for Pasta Mill No. 2. This 3,600 square foot restaurant will eliminate some of the kinks Pappan has discoveredthe biggest being lack of space.

At Pasta Mill three to five cooks man the steam kettles, hot warming plates, spaghetti boiler, a steam cabinet and hot food bain marie. They cook and serve the limited menu: spaghetti and meat balls, lasagne, beef stroganoff, veal parmigiana, and chicken cacciatore. Further down the line is a Gyro station where sandwiches or plates of the Greek beef served with grilled pita bread.

Another change in Pappan's new Sales are expected to jump about resturant will be the location of the

in the kitchen also, so diners have to put down their plate or h pasta to cool while they fix their ala the dining room.

The dining section of the square-foot restaurant is constructed with peaked roofs and the capal ilit of solar heating with a wheat thou mill motif. Wood is a heavily used design feature. The theme has been carried into the kitchen where dinir room milling machinery, expose wood beams, wooden shipping crates colorful pictures of pasta shapes are transformed into stainless steel hold ing and cooking units and actua pasta.

Geared for Fast Service

The kitchen is geared for fast ser ice-even to the inclusion of a drive through window, a popular traffic builder. Table turnover inside is less than 20 minutes, speed helped along by quick delivery of spaghetti and noodles out of the spaghetti boiler. The pasta is precooked from its raw, hard form in about seven minute then portioned into nine-ounce plasti cups, which when the order is placed can be dipped in hot water and with in seconds put piping hot onto the plate with sauce and meat.

Silver and china are disposable oval plastic "foam china" which hold the heat plus heavy plastic silverwar

How to Cook Macaroni Foods

Send \$1 for 36 frame filmstrip ut

narration guide for training resta rant personnel. Box 336, Palatine 60087

Food Stamp Participants

Participants in the food stamp gram in October numbered 15.5 nil ion, against 15.3 million in Sept m ber and 15.9 million a year ago, th Department of Agriculture said. I tal value of food stamp couponsued in the month was \$702.8 ni lion, which included \$441.1 million of "bonus" coupons, compared with \$670.4 million and \$404.1 million. r spectively, in October, 1977.

Number of children participating the national school lunch program October was 26.9 million, against 26. million a year ago, with 12.1 million receiving free or reduced-price lunches, against 11.9 million in th same 1977 month

NE. 1979

NEW STEP TOWARD OFFICE OF THE FUTURE

mation

6670 Information Distributor's combi-

nation of technologies can greatly

simplify the dissemination of infor-

enhances communications through its

capability of being linked to com-

quality. Numerous recipients of a one-

The multi-purpose IBM 6670, new-est member of the Office System 6

family, provides these capabilities and

· High-speed, non-impact printing

of information from communica-

tions lines or magnetic cards.

with the ability to process the

text, or merge text and data, in

Condensed format printing of

oversize computer generated

printouts in a high-quality type-

style on both sides of letter-size

ustomized print formats.

can each receive copies.

functions:

The IBM 6670 can print multiple

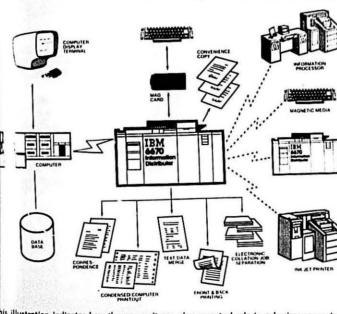
"It makes a new dimension of print-

innovative office product that rints with a laser, receives and nits documents electronically ordinary telephone lines and word processing and data proc-, was announced by the Office acts Division of the International uess Machines Corporation.

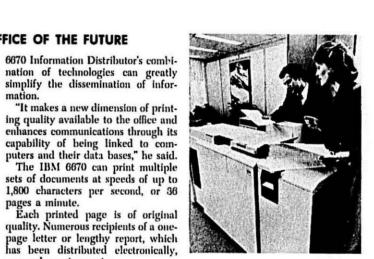
The new IBM 6870 Information istributor brings together multiple hnologies into a single unit. It comnes electronic communications, laser inting for both word processing pages a minute. A data processing applications, text Each printed page is of original d data processing applications, text ocessing and copying. The product ill initially be marketed in New York ty, Chicago and Los Angeles.

Its laser printer condenses oversize nputer printouts onto letter-size er of original quality. It also prints both sides of a page and electronly changes typestyles on the same ge. Printing formats can be indi-lually customized, text and data n be merged, and the unit can be ed as a convenience copier.

"We believe this product represents significant evolutionary step toward e much discussed office of the fure," said J. Richard Young, IBM ce president and president of the e Products Division. "The IBM



s illustration indicates how the new unit can play a central role in a business organiza-through its ability to access and process a wide variety of information. The IBM 6670 its with a laser, receives and transmits documents electronically, processes text and 0, and east. and can also make convenience copies



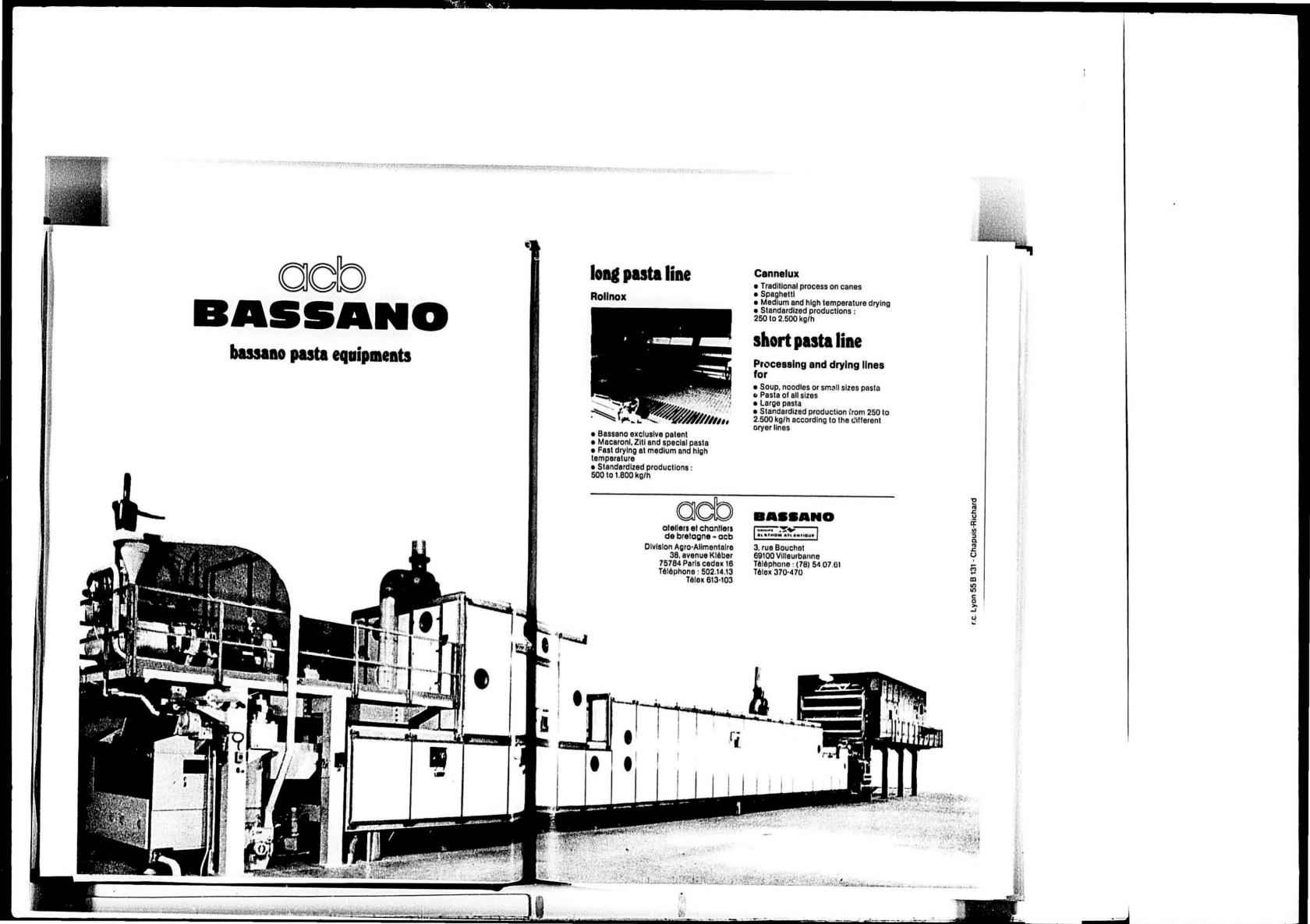
paper, without special computer programming.

- · High-speed communication of documents over switched or leased telephone lines.
- Convenience office copying at up to 36 copies a minute, with the ability to interrupt a communications or text-processing function and automatically resume that function when copying is completed.
- · Magnetic card reading and recording. The IBM 6670 can store multiple customized formats.

The IBM 6670 Information Distributor expands the choices for users of print technology in the office. Laser printing is now added to the traditional impact printing of the IBM "Selectric" and electronic typewriters and Office System 6, and the ink jet printing of the IBM 6640 Document Printer.

As an extension of IBM's Office System 6 family of products, the Information Distributor can be used in conjunction with Office 6 Information Processors, IBM Mag Card Typewriters, IBM 6640 Document Printer, suitably programmed computers, or other IBM 6670 units. A communications network can be designed using various configurations of these products, depending upon the user's requirements.

The unit's laser technology permits up to four separate typestyles to be printed on a single page in any sequence. As an example of its flexi-bility, individual characters can be



IBM 6670

(Continued from page 37)

printed alternately in any of the four typestyles. Nine typestyles are avail-

The IBM 6670 Information Distributor also electronically collates documents, whether printed from magnetic cards or via communications from IBM word processing products or computers.

The IBM 6670 Information Distributor is available through a sixmonth rental plan for \$1,565 monthly with 5,000 prints/copies included and 2.8 cents per additional print/copy; lease plans of 24-months for \$1,375 per month with 5,000 prints/copies included and 2.5 cents per additional print/copy; and 36-months for \$1,315 per month with 5,000 print/copies in-cluded and 2.4 cents per additional print/copy. Purchase price is \$75,000. clated with such a technique is that First deliveries are scheduled for the of a jackass, he said. If the supervisor, second quarter of this year.

The product was developed and is being manufactured in the Office Products Division's facility in Boulder, Colorado.

Personal Computing

The use of computers in big and medium sized businesses is not news.

The use of computers in small businesses (the personal business) is news. This is due to the development of the microcomputer-the so called computer on a chip.

Now any office, from a one man shop up to a 30 employee operation, can afford and efficiently use a complete microcomputer system. Now there is even a magazine to help this personal business get started in and operate their computer. It's called Personal Computing.

Free Copy

Personal Computing discusses inventory control, accounts receivable, accounts payable, payroll, government forms, etc. For a free copy of the magazine, all you have to do is call 800-325-6400 and order a trial subscription and they will immediately mail out a copy. When the \$14 one year subscription invoice arrives, you can pay it if you like the magazine, or write cancel on it and return it if you do not, and keep the issue free of charge.

Success Tied to Motivation

Proper motivation is the key to a company's labor-management relations and productivity success, a group of executives, human resource spe-cialists, educators and labor officials agreed at the 14th Annual Food Management Conference, sponsored by Sigma Phi Omega in cooperation with Western Michigan University.

"State of mind" and "attitude" were words that recurred throughout a presentation by Michael Wright, president of Super Valu, Hopkins, Minn. Better productivity cannot be achieved for any length of time in any company, Wright said, unless attitude conducive to achieving the desired state is created.

He chided those who equate motivation with "the carrot or stick technique." The image generally assoof a jackass, he said. If the supervisor, or whoever is attempting to motivate positively, starts with the premise that he is dealing with a jackass, he is doomed to failure, Wright said.

It is difficult to create, and even more so to maintain, positive attitude, he said. But the most difficult of all is to convert a negative attitude into a positive one.

"If you treat each person you deal with as if you fully expected a superior performance, the chances are that you will get it." If a supervisor's expectations are high and this is transmitted through confidence, the chances of success are far greater than an attitude of expecting failure. "It is a selffulfilling prophecy," he said.

Set Positive Coals

He warned executives to set positive goals-but not to set them unattainably high. When delegating responsibility or assignments, give the subordinate enough leeway to succeed and enough responsibility to show confidence in the delegate's ability to perform successfully, or failure is automatically built into the assignment, he said.

"Treat employees with respect at all times," Wright said, suggesting the full use of the Golden Rule in dealing with all employes.

Don't Talk Recession

Tim Hammonds, senior vice president of Food Marketing Institute,

warned against talking ourselves into a new recession. In recent years "we have faced nine out of our last i tree recessions," and while many fa ton show that "the coming recessio " not imminent, he said many co omists and political, media and just ness leaders are assuming there wil be a recession, which the assumpti alone might bring on. Hammonds warned that one

always be alert to the direction of the motivation. Too often, we motivate negatively rather than positively, and then wonder why our efforts hav failed. he said.

"People are the key to a com-pany's success. Productivity is the result of motivating people, more than automation."

"When you are lucky enough to find good people, overpay them, delegate responsibility to them, even if it means shifting responsibilities," he urged. Companies should adapt themselves to make the best use of talents that often are wasted or overlooked. It is possible to motivate-out losing attitudes, he said.

Employes expect management to be flexible and to let them take responsibility and participate, and the management team that takes advantages this desire will be the successful one, he said.

As supermarkets grow in size, department managers often are responsible for as many employees is a smaller entire store employs, he aid. Yet management has not seen fit to train many of these people in hour to direct and motivate their subordinates, he added.

"Remove the roadblocks from the paths of your people-get out of t wir way yourselves," he admonished, ' und give them the opportunity to uc

Selective Perception

Walter Davis, special assistan to the president of the Retail Clerks International Union, spoke of "selec ive perception" to which we are all prome-Management and Labor look at the same problem, want the same results and see different things, he said.

There are many consideration other than wages, he said. The employer-employe relationship creates problems as well as solutions, warned. Regardless of how good that

> (Continued on page 42) THE MACARONI JOURNAL

Introducing Hoskins Company



Glenn G. Hoskins Company was launched in 1941 as a business and technical consulting service to the Macaroni Industry. Over half the industry in North America subscribed to the Hoskins service. During the consulting years substantial contributions were made to the technology and operation of the industry.

Temperature and humidity controls of maraconi dryers were first introduced by Hoskins and then disseminated throughout the world.

Plant operations Forums were held for 13 years. Members of the industry and suppliers discussed technology and theory of macaroni manufacture. The most valuable contribution of these meetings was a free exchange of information which substantially increased the technological competence of the industry.

Charles M. Hoskins

One of the proudest contributions to the industry was Bob Green, the Secretary of the NMMA, who originally entered the industry through our organization.

We acted as consultants in designing a number of new factories and expanding old factories. This included the Creamette Company, American Beauty, A. Zerega's Sons and Ronco.

in the 1960's the name was changed to Hoskins Company and the nature of the busiess was changed to a Manufacturers Sales Representative for:

DEMACO, the principal domestic manufacturer of complete pasta production lines.

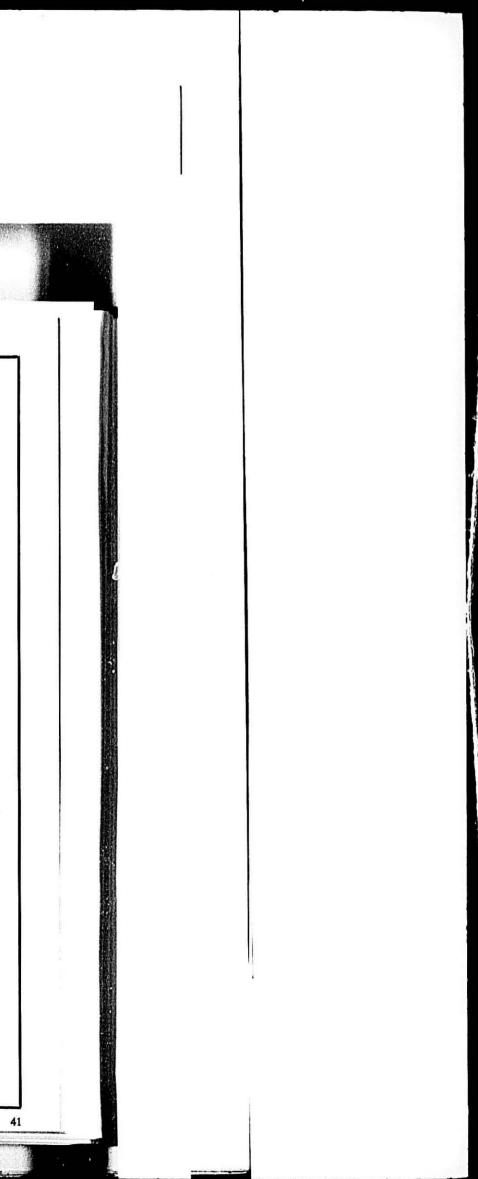
ASEECO, a manufacturer of storage systems and mechanical conveyors for noodles and short cut macaroni products.

SEMCO, a manufacturer of systems for pneumatically conveying and storing semolina and flour.

RICCIARELLI, an Italian manufacturer of pasta packaging machines, systems for conveying long spaghetti from saw to packaging machine and specialty machines for making bowties and twisted vermicelli.

CLERMONT, a manufacturer of noodle cutters, noodle sheeters, Chinese noodle production lines, crepe manufacturing lines and related equipment.

UNE, 1979



Salective Perception (Continued on page 40)

relationship is, the larger the number of employees a company has, the larger the number of problems it has and the character of the work has absolutely no relationship to the number of problems that exist, he said.

Regardless of how much either side tries, it is impossible for labor or management to look out for the other side's interests, he warned.

Tough Questions to Ask a Job Candidate

☐ What's wrong with your present job?

Does your boss know you are looking for a job?

Why have you made so many job changes?

Why are you interested in our company?

How ambitious are you? What are your three greatest

strengths? What are your three greatest

weaknesses?

□ Where do you want to be in five years?

□ Where do you think you'll be? Are you technically or manage-

ment oriented? Do you feel you have top man-

agement potential? Why? How good a manager are you?

Details?

How good a leader are you? De-tails? What have you disliked most

about past jobs?

What do you think you would like best about this job?

□ If you were just starting out after graduating from school, what would you do differently from what you've done?

How important to you is salary compared to other aspects of the job? □ What five things have you done

that you're most proud of?

mean to you? □ What types of job are you look-

ing for? □ Why aren't you making more

money? Why should we be interested in

hiring you? Source: "The Executive's Guide to Finding a Superior Job" by William A. Cohen, AMACOM, 135 West 50 St., New York 10020, \$12.95.

47

Multi-Company Experience: Prerequisite for CEO's

The old "I-started-at-the-bottomand-worked-my-way-up" tradition of company presidents or chief executives seems to be fading in corporate history. America.

At least that's what a recent survey of executive hiring practices and trends, conducted by the (Century City) Los Angeles-based executive search firm, Genovese & Co., revealed recently.

President and founder, Donald P. Genovese, said he polled over 500 U.S. executives who were either president or chief executive officer of up to \$4 billion company.

"Most of them (77%) had multicompany experience," (up to five different companies) he said. "Only 19% had never worked for another company."

Furthermore, most of them indicated multi-company experience is clearly a prerequisite for manager/ executive positions, according to the survey.

The survey disclosed that 90% of the respondents had been either president or chief executive for less than ten vears.

"Of those executives hired from outside the firm, an executive search firm was used in approximately half of those placements," reported Genovese.

Interestingly, advertisements were never a means of bringing the executive to the attention of the company. Results of the survey, which covered the presidents' offices, managers/ executives, MBA's, use of executive search firms and minority hiring, are now available in a booklet published by Genovese Co. For a free copy, write: Genovese & Co., 1880 Century Park East, Los Angeles, CA 90067, (213) 277-7421.

□ What does the word success Multifoods Report

International Multifoods Corp. reported record earnings for the 11th consecutive year along with record sales and increased unit volume for the fiscal year ended February 28, 1979.

Earnings for fiscal 1979 were \$24.5 million or \$3.06 per share on sales of prior year earnings of \$22.3 million or \$2.81 per share on sales of \$.227

William G. Phillips, chairman said that Multifoods closed the year with strong momentum, finishing with the best two quarters in the comp my's

Results for the fourth quarter ended February 28, 1979 including net camings of \$8.0 million or \$1.01 per share on sales of \$241.3 million. Earnings for last year's fourth quarter were \$6.3 million or 80 cents per share on sales of \$214.0 million.

According to Darrell Runke, presi-dent, all four of the company's worldwide market areas contributed to the sales and earnings improvement for the year.

In the Industrial area, Runke said that sales and earnings were improved as increased unit volumes were reported by all major product lines. Substantial earnings improvement was reported in Canada for bakery and export flour as well as poultry meats. Runke said that improvement in the

Consumer area was aided by volume gains for cheese products in the United States, and frozen food products in Canada, while substantial improvement was also achieved for family flour. He added that the decorative accessories group reported strong volume increases and earnings approached the break-even level from a heavy loss position the previous vear.

According to Runke, increased volumes and better margins for an mal feed and health products contributed to the overall gains in the Agricu ture area. Strong performances also vere recorded by the veterinary supply and seed corn groups. He said that we successfully disposed of our U.S. egg operations by year-end.

In the Away-From-Home Eating area, Runke said that improved performance from Mister Donut's tranchised operations and increased volume in the Boston Sea Party restaurants were the major factors con ributing to increased sales and earnings.

According to Phillips, Multifoods entered its new fiscal year in good operating condition. He said the past year the company was able to achieve fine results in a number of produc areas and was able to implement cor-\$931.0 million. This compares with rective measures in several areas ex periencing difficulties.

TODAY'S DRYER

THE PIONEERING IS OVER Completely fabricated and assembled in our plant. All stainless steel The microwave dryer is standard 24 construction. Complete microwave

houri7 day equipment for any size macaroni or noodle plant.

Jp to 4 times the production in same feet of floor space (a barin itself with construction costs ne \$40 sq. ft. range).

Reduces Infestation up to 99.99%. s bacteria, Salmonella, E. Coli, iforms, mold, yeast, weevils and

Most easily sanitized dryer. Hose :own or steam it clean.

Makes a richer looking product; blanching.

Energy savings reported: 52% less BIU's; 6% less KW's.

Lowest downtime. "We keep an accurate record of all downtime and express it as a percentage of time down to time scheduled. Microdry leads our list at less than 2%" - Pit. Mgr., leading mid-west operation.

"All future equipment will be Microdry" . Tech. Dir., Large pasta

San Leandro, California 2 units

Chicago, Illinois 2 units

Chicago, Illinois 1 unit

THREE-STAGE

DRYER 15' X 27'

CATELLI. Montreal, Canada 1 unit

1 unit

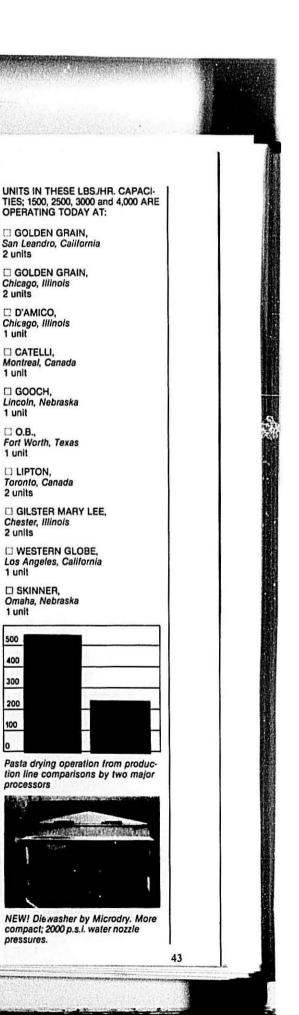
DOB Fort Worth, Texas 1 unit

17 LIPTON Toronto, Canada 2 units

GILSTER MARY LEE, Chester, Illinois 2 units

U WESTERN GLOBE, Los Angeles, California 1 unit

500 400

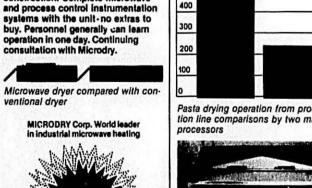


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consultation with Microdry.

compact: 2000 p.s.i. water nozzle



WHAT EXPLAINS OUR SUCCESS?

by

Richard L. Lesher President

Chamber of Commerce of the United States

Ask most Americans why this nation is great and powerful and here are some of the answers you will get back:

1. "It was God's will."

2. "It was our destiny."

"It was our superior endowment of natural resources."

4. "It was our science."

Certainly, we can put an end to many of these

myths. America has never been the most populous nation. And until recently, we trailed many of the advanced nations in science and technology. What about resources? We were never overen-

what about resources? we were never overendowed with natural resources—a truth people are just now "discovering." In fact, there are many underdeveloped nations, with vast reserves of natural resources and population, and they are still classified as underdeveloped nations of the "Third World." Think about that and ask why.

The secret of our success is—and always has been —embodied in a people and a business system which place great premiums on competition, individual initiative, hard work and good organization and management.

These are the elements of our society which hold together the fabric of our greatness invisibly like Adam Smith's "unseen hand." Therein lies the vulnerability of the system. The intangible essence of these most precious resources could be brutally murdered and it might be years before the death is discovered—much too late to think about looking for a villain.

It is always easy to justify one more government program to benefit one worthy group or another. It is always easy to find an abuse somewhere that can be "corrected" by a new law or a new regulatory agency.

But unfortunately it is *not* easy to stand back, take a look at the whole picture, and see where we are headed.



The growth of government is crippling what's left of the private economy in three ways:

First, through direct competition, in which government agencies subsidized with tax dollars offer the same services as taxpaying, private firms.

Second, in competition for funds in the capital markets. The government's enormous borrowing drives up interest rates and makes it more difficult for private firms to raise capital.

Third, the economy is crippled through excessive regulation, which decreases competition, decreases efficiency, dulls initiative, and increases costs.

Why does capitalism have a bad name? Why are we in ever increasing danger of destroying those very qualities that have long sustained us? I think there are three major reasons:

The first is simple misunderstanding. Our business system is often interpreted by the wrong people, people who are hostile to it, and they explain it to those who are ignorant of it.

The second bad influence on the capitalist image is the standard of comparison. To be honest, the results of our economic system should be compared with competing systems. But somehow, the opposition has succeeded in discouraging such comparisons. Instead, capitalism is held up to some abstract standard of perfection, and it falls short. Well, no wonder! No economic system run by imperfect human beings is going to be perfect, and capitalism is no exception. But it should be judged on the scale of the possible, not the fantasy of the ideal.

The final problem distorting our perception of capitalism is our confusion over certain national and personal—goals.

Do we want a higher standard of living for everyone? Or, a more equal standard of living? I submit that we cannot have both and we had better face the need to make a clear choice between the two—we had better decide whether it is preferable to dine on half of a sparrow or a quarter of a turkey.

You won't find the top name in pasta in any pot.

You're always ahead when you start with the very best.

THE MACARONI JOURNAL



Belt Storage Systems Have wide Adaptability

Continuous belt storage machines from Food Engineering Corp. are used to automatically provide temporary accumulation or surge in industrial processes for a wide variety of granular, pelletized, or other particlesized products. The machine has been designed to handle non-free to 100,000 pounds or over 8,000 cubic flowing items such as chips, flakes, feet for each conveyor level, dependand other flat or curly items, as well as free flowing products.

The belt storage systems provide first-in first-out accumulation of prod- available as required. ucts on a continuous basis and allow a non-interrupted flow of product to packaging or further processing on demand from the downstream equipment.

The machines are offered in single, double, or triple level, depending form rate. Electric sensing eyes or upon a customer's building or process requirements. The machines are avail-able with optional dust cover systems, of the storage unit is independent of catwalk and ladders for easy access and service, control panels with graphic displays, moving gate dis-charge systems, and vibratory discharge scalpers for the removal of product fines and/or lumps.

Features

The storage machines are relatively simple in mechanical operation and are also very rugged and dependable. Some of the main features follow:

1. An infeed shuttle car distribution system travels up and down the length of the continuous storage chamber. It is equipped with a rotary probe for sensing of the peak position of the product on the storage belt and always operates to fill product at the peak location. The shuttle rotary probe and reversing and forwarding clutches obtain all power for operation from the troughed belt conveyor that brings product to the shuttle. The patented shuttle design is mechanically simple and does not require cables and pulleys or electric cords or reels connected to it. It is designed for 24 hour per-day opera- Food Labs Directory

2. The storage conveyor system is made of high strength metal slats of about 450 food testing laboratories stainless steel, carbon steel, or alumi- and consulting organizations has just num, depending upon the product been made available by the Institute requirements. The slats are attached of Food Technologists.

to large carrier roller chains on each side. They do not require any inter- Food Testing Laboratories and Conmediate support beneath them and sultants" is organized according to the are capable of carrying relatively six U.S. Census regions, to make it large loads. The manufacturer asserts easier to locate needed servic s in that the conveyor system does not any given part of the country. I also have tracking or other problems which contains a section listing non-US. are sometimes associated with other organizations, for those having testing types of belt systems. Machines are requirements abroad. offered with storage capacities of up ing upon the product bulk density. Product depths are available to 8 feet or more and the machine length is

3. The storage unit may be equipped with Food Engineering's patented moving gate discharge system, which may be the only device available that will discharge delicate or non-free flowing products at a uniother devices are not required to conthe infeed and may or may not operate while the infeed is running.

4. The sidewalls of the storage chamber slope inward to reduce the product loading against the walls, resulting in lower drag and, in some cases, a much reduced tendency for product marking or breakage as it moves along the storage walls.

One typical use of the accumulating systems is to provide a buffer between packaging and the process line. Temporary packaging machine breakdowns will then not cause process line shutdowns, resulting in significantly greater line yields.

Another use is to accumulate products from batch operations and provide continuous downstream process operation In addition, the storage units are used to accumulate products for two shifts to allow packaging to operate on a single 8-hour shift for 24 hour-per-day operation.

For further information, write to Food Engineering Corp., 2765 Niagara Lane, Minneapolis, Minn. 55441.

A directory describing the capabilities and areas of expertise of

The 1979 IFT "Regional Gui le to

In addition to brief descriptions of the testing capabilities and consulting services for each organization, the directory carries the name and phone number of the director or contact person of each organization, and it full address.

The 44-page two-color directory is available from IFT Regional Guide, Lockbox 94332, Chicago, IL 60690 for \$10.00 per copy, postpaid.

Energy Tips: **Insulate and Humidify**

"No man is an island," no individu is self-sufficient within himself. With our increased demand for energy, w as individuals, must become more responsible in using the energy r sources we have wisely.

Here are a few tips on how we ca better conserve energy, and at the same time save money by practicing conservation.

1. Set your thermostat at the lowest setting which is reasonably comfort able. The suggested maximum for daytime is 65 degrees. At night, it is suggested that you set the therm stat at 55 degrees or less. Try not to change the thermostat setting very often.

2. Adequately insulate your hc ne. 3. Cold drafts from a windo v or door can cause you to lose as 1 uch as 30% of your heat. This provlem can be solved by installing we ther stripping and caulking around leaking frames

4. High humidity helps your wdy hold heat. This is especially impo tant in the winter because dry, warm heat absorbs moisture from the skin ausing you to feel chilly. This factor can be offset by properly humidifying the home. Place a pan of water near ! heating outlet or purchase a humidifler.

Washington Meeting

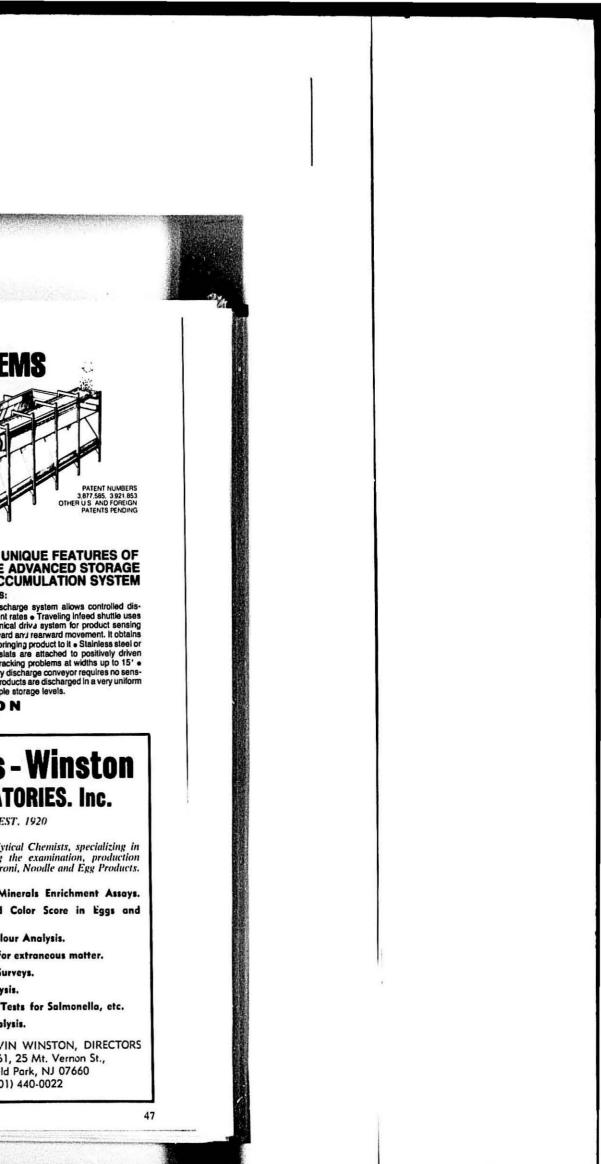
Mayflower Hotel

September 12, 1979

THE MACARONI JOURNAL



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New Recipe Booklet

"America Entertains At Home . . . with Pasta" is an invitation to enjoy meals at home which are fun, fast and easy. "Quarter-of-an-Hour" menus featuring pasta entrees are geared to the use of time-saving appliances . . . microwave ovens, food processors, blenders . . . for the time-conscious cook who prefers eating at home as a happy alternative to eating out. Conventional directions are included for those with more time to spare in the kitchen.

Copies of the booklet are available by sending 55 cents for each to cover postage and handling to: The Macaroni Journal, P.O. Box 336, Palatine, Thissen to Division Sales Manager for IL 60067.



Nick Rossi Metro **New York Sales Manager**

Joseph P. Viviano (right), President of San Giorgio Macaroni, Inc., Lebanon, Pa. based manufacturer of macaroni and related products, has announced the appointment of Nicholas Rossi (left) to the position of sales manager for the metropolitan New York market.

Mr. Rossi will maintain his present position as vice president in charge of sales and marketing of Procino-Rossi products. He assumed this post in 1978 when San Giorgio, a division of Hershey Foods Corp., a quired the Procino-Rossi Corp. Prior to that he had been president and sole owner of Procino-Rossi.

Mr. Rossi grew up in the pasta business as the son of one of the founders of the original company, Alfred Rossi. In this new position he will be working directly with Davey L. Jimison, District Manager, San Giorgio, northern New Jersey and New York.

Promotions Announced By Gooch Foods

Gooch Foods, Inc., a Lincoln based food manufacturing subsidiary of Archer - Daniels - Midland Company, has announced the appointments of Mr. Orville Lowry as Vice President and director of marketing, Mr. Brent Braun to General Sales Manager for branded products and Mr. Mike the Central Division.

Mr. Lowry began his career Mr. Lowry began his career n re-tail store management and joined Gooch in 1965. In 1971 he butame Sales Manager and in 1977 was cleo ted General Sales Manager. Mr. Braun was also in retail store management prior to joining Gu ch in 1968. Mr. Braun has most recently been the Central Division Sales Man

ager Mr. Thissen joined Gooch in 1976 as a sales representative for Kansas and Nebraska. Previously, he had been in retail store management.

Wright Machinery Names Gatlin

Wright Machinery Division of Resham Corporation announces the ap-pointment of James E. Gatlin, Jr., a salesman for the Central States. Gatlin will concentrate on applications in the five-state area for Wright Machinery's form / fill / seal, rotay weighers, and modular inline packag ing systems.

Gatlin previously was purchasing and marketing manager for Funston Nut Division of Pet, Inc. in St. Louis Before joining Funston in 1971 he served four years in the U.S. Army a chief warrant officer in Vietnam.

A native of Andalusia, Alabama Gatlin attended Modesto Junior College, Troy State University, and Southern Illinois University.

From Edwardsville, Illinois he represent Wright Machinery in Missouri, Kansas, Nebraska, Iowa. and Southern Illinois.

Wright Machinery systems are used by food, snack, nut, coffee, tea, c real and candy manufacturers for pa kag ing a variety of dry, free flowing and semi-free flowing products in fit dbk and rigid packages. The Durham, North Carolina based firm 1 :gan operations in 1893. Its packaging systems are used in 24 countries in North and South America, Europe and Asia

Deadly Game

"Economists seem to be indulging in a deadly kind of competition trying to outdo one another in predicting when the bottom will finally fall out and our country plunge back into an other economic recession. It's been that the economists have predicted twelve of the last five recessions ac curately. . . ." Thomas A. Murphy chairman of the General Motors Corp

THE MACARONI JOURNAL

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