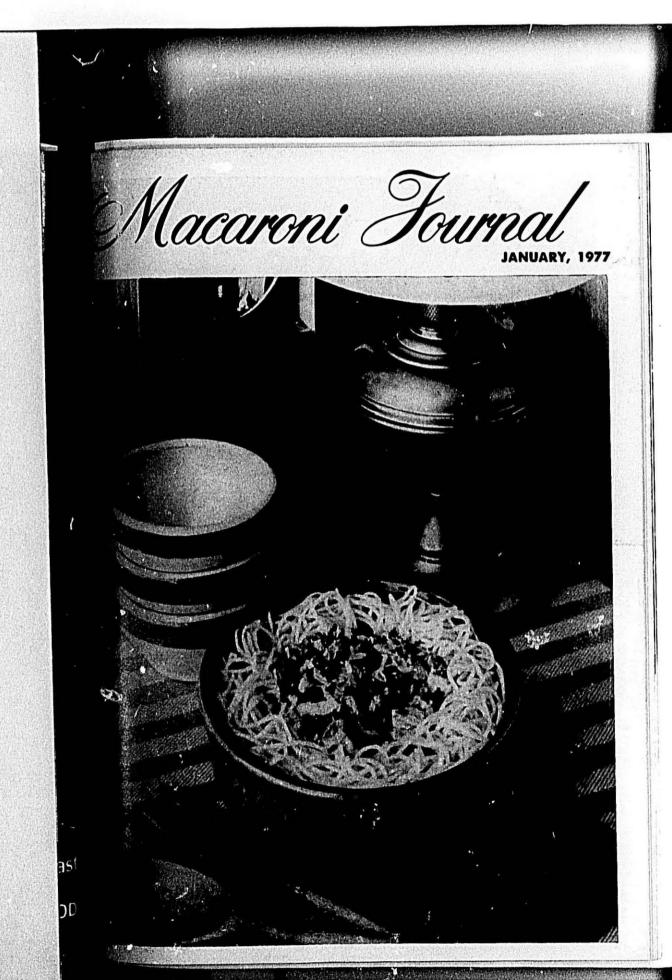
THE MACARONI JOURNAL

Volume 58 No. 9

January, 1977





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Macaroní Journal

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Official publication of the National Macaroni Manufacturers Association, 19 South Bothwell Street, Palatine, Illinois. Address all correspondence regarding advertising or editorial materials to Robert M. Green, Editor, P.O. Box 336, Palatine, Illinois 60067.

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Most Businesses Die with the Owner-Will Yours?

This is the title of a Special Family Business Report released by the Independent Business Institute. It presents, in detail, two true case histories which show how simple errors or omissions in estate planning can not only foil a business owner's intentions but destroy his family as well.

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In the second case, a seemingly straight-forward will, leaving half of a man's estate to his young widow and the rest to his two daughters by a previous marriage, was completely

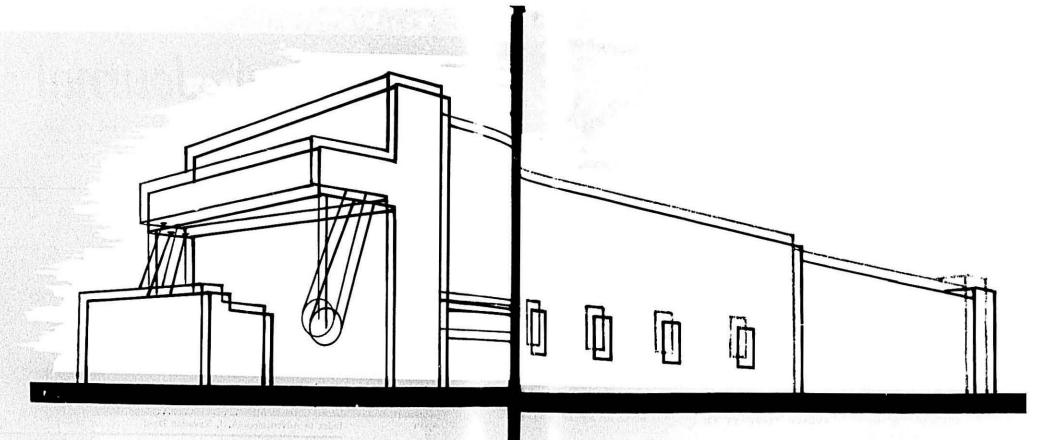
upset by one injudicious phrase. Because of this error, 94% of the estate went to the very merry widow and the daughters received next to nothing.

This interesting Report, with an important message for every businessman, is offered free to anyone requesting it by sending a self-addressed. stamped #10 envelope.

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NATIONAL MACARONI MANUFACTURERS ASSOCIATION

WINTER MEETING

February 9-13, 1977 — Boca Raton Hotel & Club Boca Raton, Florida 33432

WEDNESDAY, FEBRUARY 9

2:00 p.m.	Convention Registration Desk Opens in the Main Lobby.
3:00 p.m.	Executive Committee meets in the Madrid Room.
6:30 p.m.	Welcoming Reception in Cafe Galeria.

7:30 p.m. Dinner in Patio Royale.

THURSDAY, FEBRUARY 10 8:00 a.m. Breakfast in Cathedral/Court.

9:00 a.m.	Breakfast Session in the Granada Room.
	Greetings from President Lawrence D. Williams.
9:15 a.m.	N.M.M.A. Sales Index—Joseph P. Viviano.
9:30 a.m.	Conducting An Energy Audit—Charles J. Niskey.
9:45 a.m.	

10:00 a.m. Progress in Canadian Metrification-John F. Ronald. 10:15 a.m. Report of the Director of Research—James J. Winston.

11:00 a.m. Joint Meeting of the Standards and National Affairs Committees. 12:00 noon Adjournment at noon.

2:00 p.m. Tennis Mixer at the Tennis Courts—Golf Tourney Sign up in advance, 6:30 p.m. Suppliers' Social in Camino Hall.

7:30 p.m. Pasta Party in the Great Hall.

FRIDAY, FEBRUARY 11

8:00 a.m. Breakfast in Cathedral/Court. 9:00 a.m. Durum Wheat Improvement—Dr. James S. Quick. 9:30 a.m. Cereal Technology Projects—Dr. Brendan J. Donnelly.

10:00 a.m. Work of the Crop Quality Council—Vance V. Goodfellow.

10:20 a.m. Status of Wheat and Wheat Foods Bill-U.S. Durum Show-Lloyd E. Skinner. 10:40 a.m. Durum Industry Advisory Committee—Alvin Kenner.

11:00 a.m. Joint Meeting of the Durum Relations Committee, Durum Wheat Institute, Durum Advisory Committee. 12:00 noon Adjournment at noon.

Afternoon at leisure—Continuance of committee meetings. 6:30 p.m. Suppliers' Social at Garden Pool.

7:30 p.m. Dinner on your own-Patio Royale.

SATURDAY, FEBRUARY 12

8:00 a.m. Breakfast in Cathedral/Court, 9:00 a.m. National Macaroni Institute Report-Elinor Ehrman.

9:30 a.m. Durum Wheat Institute—HRI Report—Robert M. Howard.

10:00 a.m. North Dakota State Wheat Commission—Movie Distribution—Spaghetti Safari—Judi / lams. 10:30 a.m. Constitutional Audit—Harold T. Halfpenny.

10:50 a.m. Meeting of the National Macaroni Institute Committee.

12:00 noon Adjournment at noon.

Afternoon at leisure—Continuance of Committee meetings. 6:30 p.m. Suppliers' Social at Garden Pool,

7:30 p.m. Banquet in the Great Hall.

SUNDAY, FEBRUARY 13

8:00 a.m. Breakfast in Cathedral/Court.

9:00 a.m. Board of Directors Meeting in Modrid Room. Adjournment at noon.

Socs Raton Hotel and Club

a Raton Hotel and Club

tall started in 1926 when Addison ner opened the massive doors of clusive 100 room Cloister Inn. ow, its fifty-first year, this Spanish e is capable of handling a meetof 1,200 people. The Macaroni ing will run about 250, so there be other groups in the house at same time we are there.

recently completed tower has 250 t rooms. Nestled among the fairare sixty new Golf Course Villas. e majority of our group will be used in the Main Building and the iness meetings will be in the con-

currently under construction is a Drain in colander. purpose building located north he main section. When completed, for 1 persons, game room and center.

lations alone are not key word at Boca Hotel "service". They were reents of the Mobil Travel Star Award for tthe secutive year.

tting Jack To Basics th Spighetti

tting ack to basics, doing more cooking can mean valusavings in time and money . . . important points for today's planner. Spaghetti dinners are

low about spaghetti with a mixed od sauce of tuna and clams colorlaced with chopped parsley and nto? The appetizing dish can be

at an approximate cost of two dollars for four ervings!

With a spaghetti selection like this, you have the guarantee of a nutritious meal. Spaghetti contains a good distribution of essential amino acids and when combined with the seafood or other complete protein foods is a fine protein source. You enjoy the benefits of B vitamins - thiamine, niacin and riboflavin - in addition to iron. You get energy from the carbohydrate content. And remember, spaghetti is classified as a low fat, low sodium

Spaghetti with Seafood Sauce (Makes 4 servings)

8 ounces spaghetti

1 tablespoon salt

3 quarts boiling water 1/4 cup margarine or butter

cup chopped onion

1 can (61/2 or 7 ounces) tuna, drained and flaked 1 can (8 ounces) minced clams, undrained

1/3 cup chopped parsley 1/4 cup diced canned pimiento

Grated Parmesan cheese (about 1/2 cup)

Gradually add spaghetti and salt to rapidly boiling water so that water continues to boil. Cook uncovered, stirring occasionally, until tender.

While spaghetti is cooking, in medium saucepan melt margarine. Add ill con in a coffee shop, meeting onion and saute until tender. Stir in tuna, clams, parsley and pimiento and cook until heated through. To serve,



Speaketti with Seafood Sauce

put together in about fifteen minutes toss spaghetti with seafood sauce. Sprinkle on Parmesan cheese.

Preparation time: about 15 minutes. Cost per serving: approximately 50 cents (based on New York City prices).

Push Pasta

National Macaroni Institute advertising in Supermarket News to grocers says:

Related Sales Idea No. 5 Fush Pasta and Seafood in

February Americans annually spend:

\$747 Million for Pasta Products \$3 Billion for Seafood Get your share by pushing pasta

and seafood for profit! Prima Salsa 15c Coupon

Hunt's Prima Salsa ran a national Buy One Get One Free Plus 15¢ Coupon" promotion in early December, adding an additional 35 million coupons to the 70 million already distributed since advertising started in late September.

The December promotion will give consumers a 15¢-off coupon on their first purchase of any size of Hunt's Prima Salsa. Consumers can then send away for a coupon for a free 151/2-oz. jar of any flavor. The two-part promotion will be delivered in newspaper ads in over 450 newspapers nation-

The "Buy One Get One Free plus 15¢ Coupon" is Hunt's Prima Salsa's third major coupon event since the brand was introduced nationally

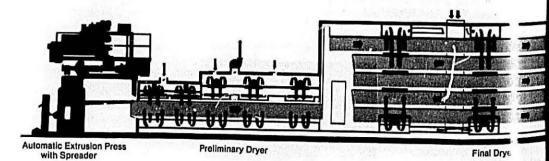
The first round of couponing, in early October, consisted of 25¢ coupons delivered via a national newspaper effort with a circulation exceeding 40 million.

The second round employed national magazines-Family Circle, Reader's Digest, Good Housekeeping-to deliver 10¢ coupons to over

A spokesman for Hunt-Wesson Foods, the California-based firm that that introduced the brand, said that consumer trial from the massive early coupon efforts appeared to be high, although it was too early to have any firm indications.

New and different spaghetti sauce— Ragu' Exra Thick and Zesty—is available in plain, meat flavored, and mushroom flavors. As with traditional Ragu', it is words but the beauty

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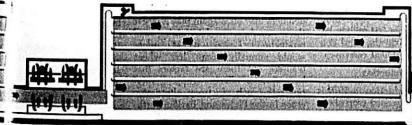
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The Wheat Situation

Economic Research Service. U.S. Department of Agriculture

The hardiness of the wheat plant was once more evidenced as it weathered a series of adverse conditions and still vielded a 1976 U.S. wheat crop that narrowly missed setting a new record. U.S. growers planted 80.2 million acres of wheat, the largest acreage since 1949. Despite drought over much of the Plains which caused heavier than usual abandonment, harvested yields were only slightly below 1975 and production is estimated just short of 1975's record of 2.134 million bushels. However, a substantial increase in beginning stocks on June 1, in addition to the large crop, means that total supplies are the largest since the early 1960's.

Dor it itie use of wheat is expected to climp about 10 to 15 percent from last season's 729 million bushels. This increase will come from livestock and poultry feeding, which is estimated to be more than double last year's 75 million bushels, since wheat prices have been unusually low relative to feed grains. Little change is expected in wheat's food use.

June-September exports totaled about 400 million bushels compared to 429 for that period in 1975/76. With larger wheat crops around the world, exports for the year are expected to range from 1.0 to 1.2 billion bushels, compared to last year's 1,173 million. Balancing supply and disappearance, ending stocks are estimated to be in the 780 to 960 millionbushel range, up from 664 million last season. This would be the third consecutive increase in wheat carryover.

World wheat production in 1976 is expected to total a record crop about 15 percent above last year's crop of 349 million metric tons. The increase is due largely to the Soviet Union's dramatic recovery in wheat production and to Canada's outstanding season which resulted in a 38 percent increase to a new record high. A sharp increase in Argentina's wheat area may result in a crop about a fifth above last year's and the largest in over ten years. The European winter wheat crop escaped the ravages of last summer's drought: Western Eur- acreage by 10 percent in 1976. Part

and Eastern Europe gained 12 percent. Among the major exporters only Australia will harvest a significantly smaller wheat crop this season. The record world corp, which also incluces better crops in some traditional importing countries, will likely lead to a reduction in world trade of about

After a bullish start, the 1976/7 wheat crop year turned bearish in the August-October period. Surprisingly high wheat prices early in the season gave way to a prolonged decline in prices which only recently appeared to have bottomed out at the lowest level in 3 years. Over a 3month period market prices lost over a dollar. For the season, it now appears that farm prices may average between \$2.75 and \$3.25 per bushel.

Loan Rate Raised

On October 13, USDA announced an increase in the wheat loan rate from \$1.50 to \$2.25 per bushel. This will give most farmers an improved option to market orderly by placing their wheat under loan. Loan activity has been running ahead of last year and has reportedly picked up since

Winter Wheat

By the end of October winter wheat farmers had nearly finished planting their 1977 crop. While extreme dryness slowed early seeding, rains have now been sufficient in most areas to get the crop in and off to a generally good start. But subsoil moisture is still deficient and abandonment may once again play a larger than normal part in determining total production. Lower wheat prices would normally mean less wheat planted, but there are factors that have counter effects-cropping rotations; the lack of strong alternative crops in the Plains and Pacific Northwest; demand for winter wheat pasture in the Southern Plains; expansion of double cropping; and the higher loan rate. Apparently winter wheat producers have planted heavily again and if moisture improves next spring, wheat plantings may total near the 80 million acreas for 1976 crop.

Durum growers in the traditional Northern Plain states reduce their ope harvested 5 percent more wheat of this decrease was offset by a sharp

expansion of irrigated acı ge in Southwest so total Duru planti fell only 2 percent. The I i. aven Durum yield increased fi in 26.4 1975 to 29.6 in 1976 on 1 . stre of the 70-bushel-per-acre yields the Southwest. The increased yields more than offset the slight decline harvested acres to produce a reco

Growers of other spring wheat e panded acreage dramatically to 17 million acres, 26 percent above 19. The spring crop was generally plant ahead of schedule under good to ditions, but then dry weather in Million and the Deletter borns. nesota and the Dakotas began plague the crop and caused the hi vesting rate to decline slightly. I though yields were down in son States, the crop as a whole receive sufficient rain in time to raise t average yield to 26.9 from 1975's 26 The improved yields and increase acreage resulted in a record crop 448 million bushels, 25 percent more than in 1975 and 38 percent more than in drought-stricken 1974.

Quarterly Durum Report Durum Stocks Up 33 Percent-Prices Fall

The Crop Reporting Board or tober 1 forecasted a record his durum crop of 138 million bushe 10 percent larger than the 1975 or and 67 percent above the 1974 pt duction. Acreage has veste was down 2 percent from last year it avera yield increased 3.2 bush per ac from a year ago. The 11 3 estim includes Arizona and N v Merio Harvest progressed well September. North Dakot. was virtually completed tember, considerably ah

Land preparation and tanting small grains in the no tradition durum producing states ot under way in mid-October. Du um plan ings expected to be cut sharply the nontraditional states.) armers a switching to hard red winter whe due to the weaker durum cash ma ket and lack of foreign contracts is next year's crop.

Stocks: Durum wheat stocks in positions totaled 152 million bushel 33 percent greater than last year an 66 percent more than on October

storage of 113 million L Fan shels wi up 30 percent from the nious ye r. Off-farm holdings at 39 year. isappearance during the neSepte ber period amounts to million ushels.

Exports: U.S. exports of durum test during the June-September riod totaled 23.7 million bushels, hich was an increase of 4.9 million comparison to the previous year.
Ignia, Italy and Russia were the
legest importers with a total of 14.4
Illion bushels exported to these three sultries. In spite of the increased ports, the market undertone consuces soft with surplus stocks.

Canadian Situation: According to r 8, based on yields indicated at ptember 15, production of durum best for 1976 was estimated at 101.0 ellion bushels, which was well over e last year's record crop of 93.2 dion bushels. The yield per acre = dirated was 31.1 bushels per acre pared to 25.5 bushels per acre a r ago. Exports overseas of Canadurum wheat from June through tember totaled 21 million bushels. major market was U.S.S.R., taking million bushels.

ince 1919 when the U.S. Department of Agriculture started reportg production data of Jurum wheat marately rom other spring wheat, a been the major producer of durum e U.S. (1). For example, tween 1 2 and 1975 North Dakota accou d for 83 to almost 90% the tot U.S. durum production Table 1). is was due to the varieseede and growing con-ions This , ir, however, a significant e general scene of U.S. rum pr uction has taken place. he rease for this change is the of the processed spaghetti. tognition of new production in the nathwest, particularly Arizona. Retment . Agriculture (3,4) showed at durun: production in Arizona will count for approximately 16% of the tal production (Table 2).

Quality of U.S. South-Western **Grown Durum Wheat**

by Brendan J. Donnelly²

¹ Published with the approval of the Director of the Agricultural Experiment Station, North Dakota State University, Fargo, North Dakota, as Journal Series No. 707.

² Associate Professor, Department of Cereal Chemistry and Technology, North Dakota State University, Fargo, North Da-

periment Station had shown that although the external appearance of some Arizona produced durum was acceptable, the quality, as assigned by established criteria, was inferior to that produced in North Dakota and



Brendan J. Donnelly (left) accepts a check for a Cereal Technology fellowship from NMMA Executive Secretary Bob Green.

U.S. and North Dakota Durum Acreage and Production, 1962-1976*

Mill	ion Acres Pla	nted	Production, Million Bush				
Year	u.s.	North Dakota	U.S.	North Dakota	North Dakota %		
1962	2.42	1.92	71.8	59.6	83.0		
1963	1.99	1.65	50.4	43.8	86.9		
1964	2.38	2.00	66.7	57.9	86.8		
1965	2.23	1.94	69.9	61.1	87.4		
1966	2.44	2.08	63.2	55.1	87.2		
1967	2.75	2.29	66.4	54.9	82.7		
1968	3.56	2.93	99.5	83.4	83.8		
1969	3.33	2.78	106.3	91.8	86.4		
1970	2.11	1.84	52.8	46.1	87.3		
1971	2.86	2.53	91.8	82.1	89.4		
1972	2.59	2.33	72.9	65.5	89.8		
1973	2.95	2.59	78.5	69.6	88.7		
1974	4.07	3.50	79.2	68.8	86.9		
1975	4.67	3.96	123.2	104.9	86.4		
1976**	4.59 -	3.64	137.2	94.6	69.0		

[·] Data from the Wheat Situation, Economic Research Service, USDA.

certain other areas. The major defiolina protein content and poorer color

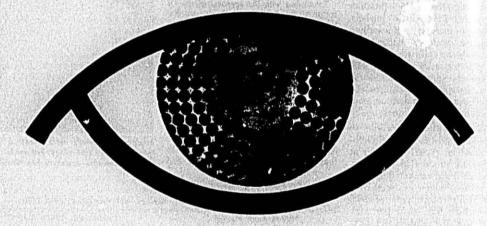
The durum wheat crop in the southwest has been harvested and it nt crop stimates by the U.S. De- was of interest from the cereal chemists standpoint to evaluate the market quality of this wheat, its milling properties and spaghetti producing characteristics. The results were 78. North Dakota's contribution compared with the average quality drop to approximately 69% of the data seen for the durum crop from the 1975 North Dakota harvest (6).

Town at the Yuma Agricultural Explanted durum wheat acreage in Arirepresenting "Western Durum" were

zona was estimated at approximately ciencies were lower wheat and sem- 319,000 acres with an average yield of 70 bushels per acres. This high acreage yield can also be seen for New Mexico and California and can be attributed to the use of irrigation coupled with high fertilization and ideal growing conditions.

Table 8 shows the southwest samples evaluated, their source and varietal identity. These samples were randomly selected by the Crop Quality Council and represented typical commercial durum wheat quality Past studies (5) of durum wheat As can be seen in Table 2, the grown in that area. The WD prefixes,

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TABLE 3

	Angelone and the		In 2 Parts	Wheat	Carnet D	ata—South	Mest Dates	H2 -0538000 54	on the party of th	1071000		
Sample	Variety	Source	Grade	Test Weight (lbs/bu)	Mois- ture	Falling Number (sec.)	1900 Kernel Weight (g.)	Pro- tein* (%)	Ash* (%)		rnel Distr Medium	ution Small
WD-1	Blend	Ariz./N.M.	IH HAD	62.1	8.1	494	49.5	11.7	1,48	65	33	2
WD-3	Produra	Ariz.	IH HAD	62.8	7.8	540	47.6	12.1	1.61	67	31	2
WD-4	Mexicali	Ariz.	IH HAD	62.8	8.2	709	59.9	12.6	1.85	88	11	1
WD-6	Cocorit	Ariz.	1 HAD	61,4	7.7	632	41.5	11.6	1.77	49	49	2
Average-	-Southwes	t durums	-US False	62.3	8.0	594	49.6	12.0	1.68	67	31	2
1975 N.I Survey A		Programme and the second	1 HAD	61.5	12.6	388	40.8	13.3	1.65	36	60	4
WD-2		Calif.	1H HAD	62.2	9.0	428	46.7	12.4	1.92	64	35	1
WD-5	Crane	Ariz.	3 HAD	58.4	8.7	538	40.7	13.2	3.03	31	66	3
WD-1	Modoc	Ariz.	IH HAD	62.3	8.0	539	42.7	12.7	2.05	53	45	2
Average-	-Southwes	t durums	COLUMN	61.0	8.6	502	43.4	12.8	2.33	49	49	2
Overall a	verage-Se	outhwest duri	ıma 💮	61.7	8,2	554	46.9	12.3	1.96	60	38	2

14.9% moisture basis.

TARLE 2 1976 Durum Wheat Production State-by-State*

State	Acres Planted (×1000)	Yield bu/a	Produc- tion mil. bu.	Produc- tion %
Ariz.	319.7	70	22.3	16.3
Calif.	83.7	75	6.2	4.5
Minn.	86.3	32	2.8	2.0
Mont.	295.3	29	8.6	6.3
N.M.	18.7	70	1.3	0.9
N.D.	3,640.2	26	94.6	69.0
S.D.	150.9	9	1.4	1.0
U.S.	4,594.8	30	137.2	100.0

• Estimate (9-1-1976).

used by the Crop Quality Council for identification purposes.

Wheat Quality

The wheat quality data are shown in Table 3. Samples WD-2, WD-5 and WD-7 contained soil particles which could not be removed from the wheat by mechanical cleaning with the Carter Dockage Tester and Forster Scourer. Because the presence of such soil particles obviously had an adverse effect on many of the quality characteristics determined on these samples, WD-2 WD-5 and WD-7 are considered separately in this report. Insufficient quantities of these three samples were available for washing to remove the dirt and subsequent milling and processing evaluation.
Official U.S. wheat grades, as de-

termined by a federally licensed Grain Inspection Service, ranged from 1H HAD to 3 HAD. Test weight ranged from 62.8 to 58.4 pounds per bushel. The average test weight for the clean wheat was 62.3 pounds per bushel which was 0.8 pounds per bushel higher than the average value ob-tained for the 1975 North Dakota sur-ered unusually high. There was evi-

the state average. Wheat moisture was relatively low in all samples, averaging 8.0 and 8.6 per cent for the clean and unclean wheat, respectively. Falling number, an indicator of whether or not sprouting has taken place, was no problem with any of these samples. A value of 250 or less indicates possible sprout damage. Kernel distribution all samples showed, on the average, a higher percentage of large and a lower percentage of medium and small kernels when compared to the corresponding average values seen in the North Dakota survey. As would be expected this higher large kernel content had a significant effect on 1000 kernel weight. The average 1000 kernel weight for the clean samples was 49.6 g which was 8.8 g higher than the survey average. The samples containing dirt particles averaged 2.6 g higher in 1000 kernel weight than the survey average. Wheat protein averaged 1.3 and 0.5 percentage points lower for the clean and unclean wheat, respectively, when compared with the North Dakota average of 13.3 per cent. Wheat ash for the clean samples was similar to the state survey average of 1.65 per cent. The samples containing soil particles showed high ash values, with an average of 2.33 per

The physical appearence of the southwest durum wheat was, in general, very good. Large, vitreous, amber colored kernels were a significant feature of the samples and the

vey. The dirt containing samples averaged 0.5 pounds per bushel lower than dence of black point in all sample except WD-4 and WD-6. A potenti problem with the low moisture leve seen in these southwestern durums the high probability of kernel break age on shipping and mechanical han

Semolina and Spaghetti Quality

Semolina extraction, on an experimental Buhler mill, averaged 5.1 and 3.8 percentage points higher for the clean and unclean samples respec-tively than the survey value of 53.15 (Table 4). This higher extraction level reflects the large kernel size and 1000 kernel weight seen for these samples. The average semolina protein level were lower and the average semoling ash levels were higher that the corresponding survey values. (ain, the high ash levels in the uncleareflects the soil particles prewere impossible to re we mechanical means. The prence of these soil particles and so le bla point also affected the semi ia sped count of these samples w aged 75 specks per 10 versus 17 seen for the sur 'y.

One of the problems er nuntered with processing this sem ina into spaghetti was the effect of | ver protein. Semolina is normally in this laboratory on a De laco e truder under vacuum at 51.5% al sorption (7). It was found that the semolina samples with protein values lower than 11% required higher absorption levels to gain proper co sistency before extrusion. In a commercial operation these absorption adjustments could cause some diff culty in producing a uniform produc

Spaghetti color scores on the aver-

THE MACARONI JOURNAL

TABLE 4
Soashetti Quality Data—Southwest Durun

5#1	Si 0.	Semo-	AND MALE	Semolin	i dive	Spaghet	ti Cooking	Quality
mple	l. i Es ic- ti i	lina* Pro- tein %	Semo- lina* Ash %	Speck Count per 10 in.2	Spaghetti Color	Cooked Weight (g.)	Cooking Loss %	Firm- ness (g.cm.)
11	4.8	10.8	0,60	30	5.5	38.2	9.2	3.0
0-3	: 6	10.6	0.59	23	6.0	37.4	9.1	2.7
04	57	11.5	0.75	23	8.0	37.1	8.5	3.7
0-6	57	10.4	0.69	33	6.0	38.0	8.3	3.2
1	58.2	10.8	0.66	27	6.4	37.7	8.8	3.2
5 N.	D.	• 14.0	% moistur	e basis.				
ney L	53.1	12.3	0.58	17	9.1	36.5	7.5	3.7
D-2	58.0	11.3	0.71	47	8.0	36.1	8.2	3.9
D-5	57.4	12.2	0.90	100	4.5	35.1	9.0	4.1
D-7	55.4	11.3	0.70	77	8.0	37.3	8.6	3.5
if.	56.9	11.6	0.77	75	6.8	36.2	8.6	3.8
herall	57.7	11.2	0.71	48	6.6	37.0	8.7	3.5

unter Color Difference meter for inhness and yellowness, is measured a scale of 4.0 to 11.0, with scores 9.0 or greater representing bright mber color (8). The color scores demined for the southwest durums were significantly inferior to the 9.1 werage value seen for the 1975 surrey. The 8.0 values obtained for WD4 (Mexicali) and WD-7 (Modoc)

present dull amber color. Spaghetti cooking quality of the protein samples WD-1, WD-3 low protein samples was, and WD-6 were inferior when compared with the 1975 North Dakota arrage values. Average cooked weight a 1 cooking loss values were higher at the cooked firmness scores were low r than the average for the survey s aples. These low firmness resent unduly soft cooked scores ri products The other samples had cooking sality quite similar to the North D ota average values.

In g eral, the representative f durum wheat from Ari-20na, So thern California and New Mexico xhibited inferior quality factors i the milled and processed products when evaluated by estab-lished criteria used for North Dalota durum wheat. Such deficiencies relatively low protein levels, high sh (in the samples difficult to clean y mechanical means), low spaghetti color scores and generally poorer coking quality will most likely have adverse effect on the marketability this wheat. Of the durum varieties

Modoc appear to be two that represent future promise for wheat quality grown in that area.

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Acknowledgement

The assistance of Vance Goodfellow, Crop Quality Council and Dr. Dave Ebeltoft, NDSU in obtaining the samples used in this study is gratefully acknowledged. The technical assistance of Slavko Vasiljevic and and Leonard Sibbitt is appreciated. growth of recent years."

From The Peavey **Annual Report**

Achieving its best year in history, the Industrial Foods Groups increased earnings 54% from \$7.6 million in 1975 to \$11.8 million in 1976. Net sales were down 2%, reflecting lower wheat prices.

Flour volume increased 12%, outpacing the industry's 7 to 8% gain. This performance was achieved by increasing market share with new wholesale, specialty and government flour business. Also, as ingredient cost pressures subsided, traditional bakery flour customers increased their consumer sales-and flour orders.

Industrial Foods Group management of grain procurement, including control of wheat inventories; and operating efficiencies with firm conwere low. Color, measured on a grown in the southwest, Mexicali and trol of manufacturing costs, further enhanced profitability. As one of the largest flour millers, Peavey has a daily production capacity of 95,000 hundredweights at nine mills across the country.

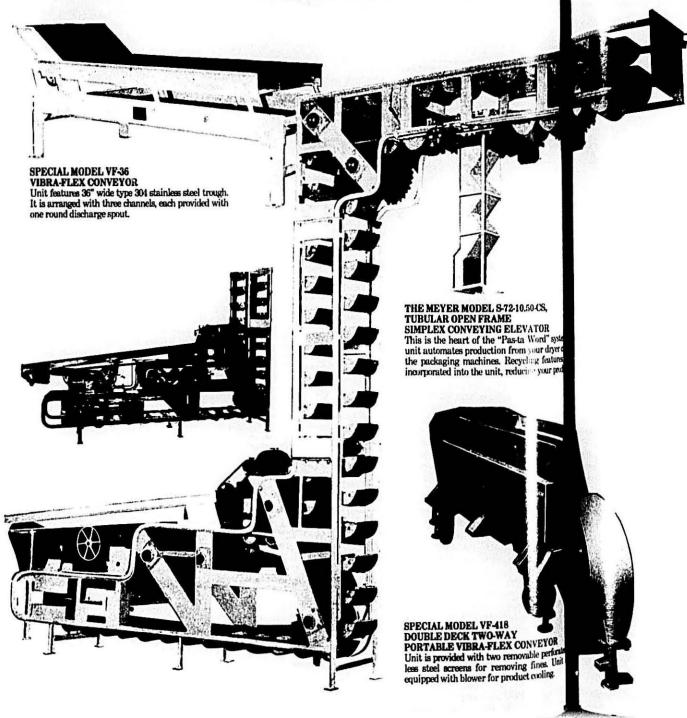
> While the volume of durum products for pasta manufacturers was up, competitive pressures led to lower net sales and earnings. Pasta manufacturers blended more expensive durum with more favorably priced bakery flour to offset cost pressures, and lower meat prices caused a decline in consumers' use of pasta products to extend meat meals.

First Quarter Earnings Down

Peavey Company said preliminary indications are that first quarter earnings will be down about one-third from the record first quarter earnings a year ago.

Chairman Fritz Corrigan said it appears that Peavey's Agricultural Group will report a substantial earnings decline during the first quarter. Farmer holding action because of low grain prices, low water problems on the Mississippi River, and a work stoppage at our Superior, Wisconsin export elevator during the entire quarter were principal factors causing the earnings decline," he said.

He further stated, 'it appears that the Industrial Foods Group will be Michael Johnson in processing the off from an excellent quarter a year samples is also acknowledged. The ago but that Consumer Foods and interest of Professors Orville Banasik Retail Groups are continuing their Introducing the ultin a conveying equipment.



SIMPLEX «Pas-ta word.»

People all over the industry are talking about it. They pass the word about the Meyer Simplex "Pas-ta Word" system, the newest innovation in long goods conveying equipment.

The new "Pas-ta Word" system reaffirms the Meyer Simplex reputation for dependability. For more than 50 years, Meyer Machine Company has produced quality equipment — designed and engineered to return the greatest possible dividends in economy of operation, efficiency, gentle handling, sanitation, low maintenance, and a long profitable life.

Reduce your long goods production costs. The Meyer Simplex "Pas-ta Word" conveying equipment can be designed to meet your specific handling needs. Send the coupon today, or call our engineering consultants at 512-736-1811. From cutter to packaging machine, Meyer means profit for you.

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ever Machine Comp	env
	State Eyer Machine Compa

Rossotti Joins A. L. Garber Company

Charles C. Rossotti. President of Rossotti Consultants Associates, Inc., has announced recently the association of Rossotti with the A. L. Garber Company. The Garber Company, which manufactures folding cartons as well as other paper or specialty products, is part of Wheelabrator-Fee Inc., a four hundred million dol-I was told that the per capita conlar conglomerate. The Garber Company was established in 1896 and has four folding carton plants located in Chicago, Illinois; Ashland, Ohio; Syracuse, New York and Victory Mills, New York (45 miles north of Albany). Sales Offices are maintained in New York City; Paramus, New Jersey; Syracuse, New York; Ashland, Ohio; a small Quaker Oats macaroni plant Chicago, Illinois and Victory Mills, outside of London and there is an New York. The Garber Company maintains complete packaging and designing facilities and supplies some of the largest folding carton users organization in the country.

With a complete sales and servicing organization, together with manufacturing facilities in strategic geographical locations, C. C. Rossotti feels that Garber is excellently equipped to produce the famous Rossotti Packaging Systems. In addition to the Rossotti/Garber packaging services, a Marketing expert has agreed to join the Rossotti organization. This will extend the Rossotti services in new avenues, new promotions and new marketing concepts that should help enhance and stimulate the sales of Rossotti customers.

On May 1st Charles Rossotti will be joined by his son, Jack, in continuing to service the Rossotti cus-

The Rossotti Consultants Associates, Inc. office will continue to be maintained at 2083 Center Avenue, Fort Lee, New Jersey 07024.

Pasta Foods Limited

Charles C. Rossotti has returned from a recent European trip and has British Developments this to say about the first British factory ever to be built for pasta in the United Kingdom.

Ltd. of St. Albans, and by the be- in an attempt to boost still further ginning of next year it should be able Britain's fast increasing pasta market. to produce up to 25,000 tons of macaroni annually. This plant is located in largely on the back of private labels

Great Yarmouth, which is right off and general publicity. the coast of the North Sea. They have Foods believes the time four Braibanti lines running seven days a week, and I saw a fifth line being installed when I was there.

"The most dramatic achievement that I was told is that with 55 million people in the United Kingdom, the per capita consumption of pasta is sumption per year at that time was less than 1/2 lb.

"Together with the old Pasta Foods plant in St. Albans, which now produces mainly specialty macaroni items, the Pasta Foods organization produces most of the macaroni made in the United Kingdom. There is still outside of London and there is another macaroni plant in Scotland but, by far, the majority of macaroni made in England is by the Pasta Foods

Leading Food Company

"The Pasta Foods Company is owned by the Ranks, Hovis, Mc-Dougal, Ltd. organization of London. RHM is one of the world's leading food companies, operating largely in grain, milling and baking in the United Kingdom. RHM recently acquired majority interest in the Giola Macaroni Company of Buffalo, New

"Mr. Fred F. Fox, Managing Director of Pasta Foods, is very optimistic about the future of the pasta industry in Great Britain. He foresees a continuing increase in the consumption of pasta in his country. With increasing inflation and economic conditions as tight as they are in Great Britain, he feels that pasta is an ideal food because of its low cost and high nutritional value. With the difficult economy that exists in Great Britain, I told Mr. Fox that his company is a good example to other companies in helping turn the economy of his country upward.'

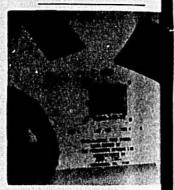
The Pasta Record, fermerly Pasta Post, reports that Parin Foods Ltd. has decided to promote its Record "The plant was built by Pasta Foods brand of pasta products more keenly

Until now pasta sales have grown

establish a primary bran

Meat and potato prices l in Britain causing such headlines as "Meat 'May Macaroni", and "U.K. m. 'nation of spaghetti eaters' " A spok man for the Potato Marketing Boar said prices could peak at 20p. The are certainly not going to be che

Pasta Foods general man Freddie Fox observes that pasta pri would be lower with lower prices durum wheat were it not for



UPC Film Masters

Universal Product Code film ers and printability gages are available from the Precision Artw Laboratory of AMP Incorporated processing and production within hours of receiving the ord . Custo ers need only supply thei nume product code. Computer-a ed des and manufacturing process bined with long experie veloping microelectronic with tolerances of 0.0002" to provide competitive ; cing fast order turnaround.

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Egg consumption dropped over the past decade, possibly because menal egg eaters—pass up breakfast due to time pressures, weig

Something New Has Been Added

It is with great pride that I announce that the 400 million dollar conglomerate, Wheelabrator-Frye Inc., of which the A.L. Garber Company is a part, has sponsored and supported the Rossotti Packaging Systems and the Rossotti principles of good packaging. To my friends in the Macaroni Industry, this means the continuation of all the Rossotti packaging principles, including graphics of good packaging, all the production principles and procedures, warehousing and delivery facilities of high standards.

The sales and servicing offices of the A. L. Garber Company are strategically located to insure maximum and complete servicing of all accounts.

In addition, something new has been added to round out the Rossotti services. A well-known marketing expert has agreed to join and supplement the Rossotti packaging services with marketing expertise. He has agreed to assist me in evaluating your present sales structure, analyze its potential, ascertain the need, if any, for new avenues, new promotions and possibly new products to broaden, enhance and stimulate your sales.

There is no cost for a review and discussion. All that is needed is an appointment for a preliminary discussion.

ROSSOTTI CONSULTANTS ASSOCIATES, INC.

2083 Center Avenue Fort Lee, New Jersey 07024 Telephone (201) 944-7972 Established in 1898

CHARLES C. ROSSOTTI, President

JACK E. ROSSOTTI, Vice President

Canadian Food Industry Conversion to Metric

Despite the Canadian food industry's efforts to insure a smooth transition to metric, occasional problems have arisen. In some cases they could have been prevented if all par- the retailer are not offset by any real ties involved had known ahead of time which problems to be aware of.

ness begins in the corner store and often retailers must bear the brunt of ada's metrication program." He does resentment toward the unfamiliar sys- point out, though, that most retailers tem. As metric products are intro- are responsible and have an attitude duced in retail stores, occasional com- of cooperation with the federal govplaints are received that either a ernment's overall conversion plan, metric package is being sold for the coupled with a determination to same price as a previously larger achieve metric conversion at the lowsame price as a previously larger achieve metric conversion at the low-package in traditional meausre, or est possible cost to customers and to that the price of a metric package has not been reduced proportionately to its size.

According to John Buchanan, acting director of Weights and Measures in Canada, investigation into alleged price deception uncovered "no evi-dnece of deliberate price hikes slipped in under the metric banner." All price increases were found to be in line with normal business practice, although in some cases pricing errors occurred when shelvers improperly marked two-kilogram bags (approximately 4.4 pounds) with the same price as five-pound bags because the bags looked similar. In other cases, manufacturers found it impossible to make a price reduction in direct proportion to a package size reduction because other costs increased at the time of conversion (the cost of raw materials, new packaging, or labor costs in the production of smaller packages sizes, for example).

"Voluntary" a euphemism?

voluntary basis, with each sector of the economy to coordinate conversion with its manufacturers and its uct, and is the remonsibility of mancustomers, according to industry ufacturers and suppliers (advertising, guidelines dates agreed on and published from time to time. The guidelines dates are set within committees in the Canadian Metric Commission.

coordinator of Steinberg's Limited, a metric size of 500 grams which aplarge Canadian retail food chain, "vo- pears side by side with competing luntary basis" means that each com- brands of the same product type pany must plan and implement its in the 454 (one pound) size.

An Instructive Example for the U.S. own conversion program in its own way, at its own cost. Coordination the larger metric size wi e the requires that each company knows are still available stocks of the pre-

Says Moran, "Conversion costs for or early return on investment and we cannot, therefore, expect him to be in For most consumers, metric aware- the vanguard of conversion, extolling the undoubted virtues of SI and Can-

Retailer-supplier-manufacturer interdependence

Proposed sizes and target dates don't deal with specific introduction dates, which means that the retailer must maintain close liaison with suppliers before and during product conversion. Frank Moran points out that guideline dates should be viewed as a warning that a commodity group is to convert within a certain period of time. Actual introduction of metric sizes is determined by the retailer's suppliers and will take into account: · existing stocks of imperial sizeswhich raises the questions of dual inventories, product freshness, and confusion between imperial and metric sizes leading to possible inventory and pricing problems;

- availability of product packages or containers—which identifies the suppliers' dependency on the container manufacturers' conversion plans and
- Metric conversion in Canada is on a degree of probable acceptance by the customer-which is connected with the introduction of a new prodnotential markets, distribution, etc.);
- · timing with other suppliers' introduction of copeting products_both n the Canadian Metric Commission.

 According to Frank Moran, metric sider the effects of trying to sell a

If a customer decides n to buy just what is zoing on with metric con-viously satisfactory imperal size version outside its own operation. that supplier's metric leader hip may cost him (and his retailers) money.

When the retailer finally does ge the actual conversion date from supplier, he then begins the process of product introduction at the

Since the retailing buyer is first t know, his is the task of listing the product in inventories, order guide purchase order files, etc., for genera dissemination via data-processing store, warehouse, distribution and counting personnel.

According to Moran, 'It is at the retail store that metric conversion be comes a reality" for consumers. If the retailer has done a good job of co ordination with his suppliers, his employees and his customers, conversion will proceed smoothly, with a mini mum of confusion and error.

Dominion, Loblaws, and Steinber metric programs

Dominion, Loblaws, and Steinberg's are three of Canada's largest retail food store chains.

Dominion is following a policy o price increases six weeks before of after a product conversion, coording to R. G. Fry, manager of manpov development for Dominic Limited in Toronto.

The company has devel ed the own training materials, Fry eported A mertic awareness training was issued to each of th - 26,000 employees in June and Jul of 1978. It was designed to make the n aware fo the overall metric con pt. Do minion also issues to every s re, plan and office a metric conversion be posted in a prominent position for quick reference.

Dominion has also deve ped, i conjunction with Cornell University Home Study Division and Loblaws an audio-visual seminar which is specifically geared to the supermarket business. As conversion progressed Fry anticipates a need for specialized materials for persons using scales and for maintenance personnel

Loblaws, according to David Pratley, director of company training at

((ntinued from page 20)

elonn it, has taken "a very strong ricing during metric con-

ovide their suppliers with e folloring worksheet for metric ing your new metric size package, your cost per unit of measure cannot be any higher than the cost per same mit of measure that applied to your mer imperial package:

Former Imperial Package	New Metric Package
A Case Cost	F. Case Cost \$3.35 G. Case Pack 12
\$3.25 1. Case Pack 12	H. Selling (F + G) Unit Cost 27.92¢
C. Selling (A + B) Unit Cost 27.08¢	I. Selling 350 Unit Size Grams Metric
D. Selling Unit Size Size 12 Oz.	J. Imperial Equivalent Selling Unit Size 12.36 oz.
E. Cost per Unit of (C + D) Weight 2.26¢	K. Cost per Unit of (H + J) Weight 2.26¢

Steinberg's provides metric informaon for consumers in the form of wall duts and metric messages imprinted on food bags. According to metric ordinator Frank Moran, they now ave a policy of unit-pricing a whole poduct group in metric when one product in a group is being converted. ased on an agreement between realers and the Canadian Government pedifications Board, unit pricing laels are i used on the cost per 100

's has also developed an udio-visi ! awareness program for

idustry guidelines for conversion

In Septe iber, nine Canadian associsenting the food industry series of guidelines that gover marketing procedures during the in lustry's continuing converion to me ric sizes.

Four general guidelines developed the industry are: here there is a change in product leading to a change in product

at, a change in unit price should ct only the cost of conversion. ther costs, separate and distinct nges, will continue to be handled

as in normal business practice (for ex- iness has been on a plateau for nearly ample, a significant rise in commod- all of this year" on a seasonally adity prices).

> · Information to assist the consumer to understand conversion to different mertic product sizes will be provided by the industry as appropriate.

The industry representatives also recommended the identification of ume of 194 billion square feet, valued outer shipping cases in the same at \$5.6 billion. manner as consumer packages are identified, to reduce the chance of pricing errors. They also recommended giving sufficient notice (six weeks) to the trade of the shipment of a new metric size to permit suitable introduction and handling, and the provision of invoicing on a new metric first three quarters shows this year product size on the same basis as the ahead of last by 21.2, 16.9 and 6.1 product size designation on the consumer package.

Who pays for the cost of conversion?

ing services for George Weston Ltd. in Canada, had some pertinent comments about the cost of metrication strength of the recovery has abated when he spoke to the Canadian Home Economics Association's 1976 conference in July.

Chadsey remarked, "The fact is that it is probably long past the time when, despite official protestation to the contrary, people should be aware that there will be metric costs to the publie just as there will be metric benefits to the public.

"One thing is for sure, those costs will be recouped—one way or the other—and it is the public who pays or wins." There will be cases when the unit price of a product will go up, because of unavoidable costs for new metric packaging or for raw ma-terials. But, according to Chadsey, sometimes ". . . the pendulum swings the other way. When a product moves from 454 grams (one pound) to the preferred 500 gram size there is 10 percent more product content with the same measuring, filling and seal-ing operation. What's lost in the reels may well be won in the rounds."

Flat Trend in

Corrugated box shipments for the first three quarters of 1976 are 14.4 spite the leveling off, however, he percent above comparable 1975 levels, again noted the 14 percent gain in according to Robert F. Rebeck, vice shipments for the year to date—"and madjustments necessary for metric president of the Fibre Box Associa- that's really not all that bad." tion. He added, however, that "bus-

insted basis.

Rebeck presented the latest industry data at the trade group's Annual Meeting. The 350 executives who heard his remarks represent more than 80 percent of the industry's 1975 vol-

In contrast to the steady improvement in shipments throughout the quarters of 1975, Rebeck said that "the pattern this year is more like the usual one which prevails during relatively stable business conditions.

Comparison of shipments for the percent respectively. However, the quarter-to-quarter changes show the flat trend: +1.5, +3.6 and -3.6 percent. The slight third-quarter dip "is A. R. Chadsey, director of packag- a more or less seasonal condition, Rebeck said, yet it is "one other indication that, as of this time, the

Regional Trends

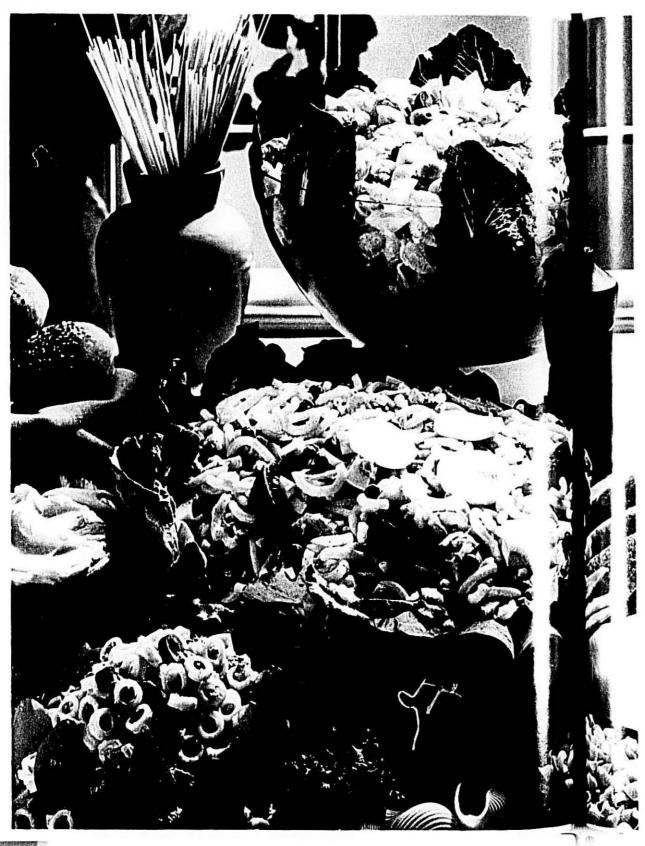
Regional trends are similar to the national pattern, he added, with the Eastern Division up 14.4 percent, the Central Division up 15.4 percent, and the Western Division up 11.9 percent for the year to date.

The national overall corrugated price trend "has exhibited a great deal of stability since the first of last year," Rebeck said, cautioning that the data serves only as an indicator of rate and direction for the general

level of prices. Container board mill production, up 22.6 percent for the year to date, has risen faster than box plant consumption, up 14.3 percent. The result, Rebeck said, is higher inventories. Roll stocks at mills and box plants now total 2,602,000 tons, a record high. Translated into weeks of supply, the current 8.5 weeks is still below the 9.1 weeks experienced on May 1 of 1975, when consumption levels were lower.

Many people had expected wider gains this year, Rebeck said, and, "because it didn't happen, the actual results tend to be disappointing. De-

Corrugated Shipments



Pasta Masters.



Super cool summer salads start with pasta made by Peavey experts from our fine Semolina and Durum flours.

At Peavey, there's a longstanding tradition of searching out ways to make our products perform a little better for you. In our miniature macaroni press and dryer operation, for example, our own pasta experts actually make test batches of pasta so they can precisely analyze its color, nutritional content, and shape retention. We ve found this is a proven way to constantly improve our products. (We re also very willing to work with our customers on their new product ideas, using our miniature equipment. Naturally, we re-very discreet about keeping their secrets.)

Another reason why Peavey's such a popular name with pasta manufacturers is the consistently high quality of our King Midas Semolin and Durum flour. We start with Durum wheat from the North Country. Then mill it an our modern, well equipped facilities that were designed specifically for producing the best Semolina and Durum flour available today.

Our pasta masters even develop recipes utilizing pasta in mouth watering new ways, as in the cool summer salads shown here. Recipes are available to you without obligation, Just drop us a line and we'll rush them to you, plus answers to any questions you may have

Peavey Technology Continuously probing the future to get better results for you

Peaver

Industrial Foods Group

Private Label versus **National Brands**

The Brand Power Study-nothing happens til the label gres on-is a comprehensive review in the October issue of Progressive Grocer.

The super market business runs on the power generated by national brands. They spend close to \$4 billion a year in measured media advertising to motivate and presell consumers. They introduce a steady flow of new items which annually account for about 7% of that year's retail sales. They support over 35,000 sales representatives to keep the distribution pipelines filled and flowing. They underwrite continuous consumer promotions and supply merchandising materials to translate them into store sales. They distribute billions of volume-building coupons, on which the handling fee alone tops \$100 million. And they offer a variety of allowances which, in aggregate, exceed the total after-tax profit of the entire retail grocery industry.

It is fair to say that the industry could not function in its present fashion without the ongoing contributions of national brand manufacturers.

Yet private labels also have a role to play-one which most retailers and distributors feel is destined to expand. In this respect, the wish may be father to the thought because many in the trade have a strong rooting interest in their own brands.

There exists an overwhelming and apparently unshakeable conviction that private brands are the way to increase profits.

It is widely believed that private labels are better than national brands in creating a low price impression and as a weapon for meeting competition.

2,100 Brands

In the not-so-private world of private label the Independent Grocer's Alliance stands tall.

IGA brands-all 2,100 of themare distributed through 60 warehouses to 3,400 stores flung across 45 states, including Hawaii and Alaska, Indeed, while the term national brand is used for convenience throughout the trade, there are but a handful of brands that are as "national" as IGA. Even Safeway and A&P labels, marketed by the two largest food chains in the world, don't have as wide distribution.

A table based upon sales results achieved by sixteen independent IGA supermarkets supplied by Wetterau, Inc., Hazelwood, Missouri division, Averaging \$65,500 a week, most are policies, decision guidelines d manwithin the area served by major St. Louis newspapers but some are located in nearby southern Illinois. resulting cash squeeze. In he un Figures are based on warehouse ship-successful category he placed re ments during 17 weeks commencing mid-December 1975 and ending March, 1976.

What these figures do not showaside from the absence of direct delivery goods, the single most import- its posture to respond to the rise ant fact to note is that the margins here represent a going-in gross—the gross that is achieved before subtracting ad markdowns, in-store price markdowns and in-ad coupons which are not redeemable by the store. Most effected are the frequently featured items in the top 25. In general, the fewer the price and coupon features the more exact the figure.

Of 200 items, we are only listing those of interest to macaroni manu-

Meeting Changing Conditions

"The Food Industry has had mixed success in adapting to the highly turbulent, unpredictable environment which has characterized the first half of the 1970's," declared Dan C. Swander, a principal, McKinsey & Company, at the annual meeting of the National Association of Food

Mr. Swander stated that panies had responded well to they could handle with t management tools, such as erating agement information systems. I added response to inflation and t sponse to changing patterns of con sumer demand in such areas as price ing, private label and product intro ductions. He concluded that the in dustry had not succeeded in changing

Back to Basics

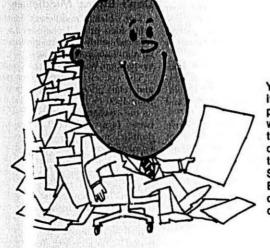
Panelists discussing the talk did nagree that all of these conclusion were valid. "New tools are mor glamourous, but it is important to go back to basics", said Robert D. Stuar Jr., of Quaker Oats.

The industry turned to discounti in response to growing consum price sensitivity, Swander pointed out Between 1970 and 1974, the percent age of firms considering themselven discounters more than doubled include almost half of all stores. Bu these moves did not succeed as there was no real sales increase but there was adverse pressure on the botto

W. H. Fisher, Jr., Chairman Lucky Stores, acknowledged on this point that the grocery industry usually reacts in typical fashion-ween sale are flat, we lower prices.

(Continued on page 26

Brand Name	Item-Size	Average \$ Gross Profit Per Week	Penny Profit Per Unit	Unit Average Per Week	Movem High Store	Low Stort
14. Kraft	Macaroni Dinner	\$14.14	.08	184	291	71
37. Contadina	Tomato Paste (6 oz.)	9.34	.06	144	336	60
39. Hunts	Tomato Sauce (15 oz.)	8,91	.07	130	254	66
78. IGA	Tomato Sauce (15 oz.)	6.70	.09	73	189	35
142. Kraft	Deluxe Macaron Dinner (14 oz.)	5.23	.14	38	75	12
145. Hunts	Tomato Sauce (8 oz.)	5.21	.04	143	254	66
161. Chef Boy- Ar-Dee	Beef Ravioli (15 oz.)	4.88	.13	38	60	19
166. Contadina	Tomato Paste (12 oz.)	4.80	.11	44	129	18
183. IGA	Long Spaghetti (32 oz.)	4.64	.33	14	29	5
184. Creamette	Elbow Macaroni (2 lb.)	4.63	.24	19	32	8
195. IGA	Long Spaghetti (12 oz.)	4.52	.12	38	69	19



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the durum people



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(Continued from page 24)

Retailers also lost an opportunity to increase private label sales, as a means of offering consumers increased value, Swander claimed. "In 1972," he said, "private label had reached an 18 percent level and was predicted to go higher. However, house brands were given no extra promotional support and volume declined."

Mr. Fisher observed that private labels basically constitutes a copying of successful national brands.

In the past, Heinz has not done a good job on new product selection, Burt Gooken, Vice Chairman, conceded. But with the cash squeeze the firm is more realistic and the result has been fewer new products in the past few years, but a better job on

Mr. Fisher likened product introductions to store openings. Both are enormously important, he said, "but if we concentrate our energies on areas we are convinced will be productive, everyone will be better off."

On Consumerism

On consumerism, it was Mr. Swander's opinion that the industry has neither worked with regulators to insure the greatest effectiveness of consumer programs with the least cost to the industry, nor attempted to communicate with a basically ill-informed public. Individual companies have attempted to do many of these things, he conceded, but few have succeeded and some practices may have been counterproductive.

Retailers have lowered working capital as a percentage of sales from about 4.5 in 1972 to less than 4 percent at the end of 1975. Wholesalers went from 5.1 to 4.8 percent. But the response by individual companies has varied widely. Some retailers have been able to finance their inventory requirements through very high inventory turnover and tough minded management payable levels. Others, because of much lower inventory turnover and lower payable levels, would be forced to absorb as much as 80 percent of the increase in inventory carrying costs during a period of rapidly rising prices.

The use of paper work is not as important, Swander said, as the realization that the job must be done. This may not entail using new techniques, he conceded, but applying a

Meeting Changing Conditions different perspective to the tools that are available.

The Impact of Labor Costs

If labor costs continue to increase at their present rate, the food industry "as we know it will no longer exist," Clarence Adamy, retiring NAFC president, declared.

Discussing the outlook for the food distribution industry during the next 10 years, Adamy noted that "food distribution doesn't have to be in this present form" and said the industry has gone into a period of technological

"We don't want to do it hut since we have to because of labor costs, we'll do it," he said, noting that 12 years ago labor costs accounted for 55 per cent of the industry's expenses, while last year they increased to 67.4 er cent.

Mother of Invention

"Necessity is the mother of invention and the necessity is here and the inventions will come," he proclaimed.

"The electronic funds transfer system will come, but don't hold your breath. And now we're installing five to nine electronic front end systems a month, which is the manufacturer's production capacity.

"The same applies to other technological changes, such as modularization," he continued. "It's not a revolution, but will evolve slowly and methodically.

"We also will continue to move much larger stores-the economies of scale are better-and will continue to carry a great many diverse items in the store.

Over the past 20 years, the store mix has changed "dramatically" and he predicted it would continue to

Inflation

Besides labor costs, Adamy said inflation is another factor that will induce change. He warned that although the years of a 14-15 per cent yearly food price increase are over, prices will continue to advance at a per cent yearly ...te.

Consumerism, environmentalism and government involvement in the industry also will contribute to the changes in industry structure, he said. Adamy said all food industries are interrelated and interdependent and

each element "must unders id economies of the other guy.

"Unless both of us do a ! Il of lot better job than in the pa mization is not for us."

Public Affairs Must Must Be Stressed

Clarence Adamy, retiring president of the National Association of Food Chains, says: "Anyone who is not budgeting a significant part of his business time to industry related and public affairs related matters is being unrealistic. You will spend that time this year, and you will spend more next year, and you don't really have any choice. The choice you do have is how you spend that time. You can spend it the way you have in the past -waiting for your opposition to attack and then putting together a defense, always on someone else's terms, or on someone else's issues. Or you can spend it in being a positive force, helping to create the kind of economic and social climate that will allow you to do a better job with people vou serve."

Don't Blame Middlemen Don't blame "middlemen" for rising

retail food prices, concludes a newly released study by the government inflation-monitoring agency, the Council on Wage and Price tability.

The council compared far a price and retail prices of 22 food roduct from 1960 to 1975 and it fo id that on the average, while the "sp ad" be tween farm and retail price nearl doubled in the 15-year pe farmer's share of the retail-fe I dollar e share didn't decline. That means of that dollar going to food 1 cessors wholesalers and retailersdlemen" between the farme and the e coun consumer-didn't increase. cil said the near doubling of ne price spread was caused by "go middle flation"-the increases in the man's cost of labor, transport ion and packaging, as well as the price of farm products. creased

SMI Studies Direct Store Delivery

The current status of "direct store delivery" (DSD) and a projection of what will happen to this type of distribution in the future is the focus of a new research paper now available from Super Market Institute.

The re ort, An Insight Into Direct store De very Systems, was developd by S. I after data processing exnutives overwhelmingly identified DSD as major industry concern. A vey provided the data for he repo: Those companies responding to the survey had an estimated al retail sales volume in 1975 of 125.9 billion and estimated total dimet store delivery sales at retail of

The research underlines the need for an improvement in present systens, calling for more control and procedures to be incorporated at the store level. Results from the second survey are presented in the report as tables, and include these highlights:

- companies not using a standard check-in document-75%
- present systems not computer-ized—63% companies having lists of author-
- ized items-87% The report also noted: • total number of different vendors
- for each store-175 total number of DSD items-
- DSD items represent: 25% of total store sales; 27% of the total number of items sold: 25%

of the total cases delivered. To request copies, contact the Instiute at 303 E. Ohio St., Chicago, IL 60611.

1977 Thomas Grocery Registe

The fo industry's largest and most diversifie directory now has 50,000 compani-company pages, a and more than 100,000 listings within its 2,800 ording to Thomas Publish-

nd sellers will find the ad-.300 firms has fattened by 400 page the new two-volume 1977 he Thomas Grocery Registr. Each isting contains pertinent instry d a for users, and each has comp ny name, address and teleone number. Also new is a directory rack jubbers and a 16-page index the book's 4,000 product catepries and references.

Volume One, which lists US and anadian firms, has added 400 food hains and 800 wholesalers. The humb-indexed section now has 1,700 ain and 3,300 wholesaler buying

NUARY, 1977

key personnel, size and sales volume. desalers' data also shows names of voluntary groups and key chains served.

The wholesalers are divided into mini-directories with separate listings for wholesalers of general line groceries, frozens, institutional foods, produce, provisions and meats, specialities, general merchandise and

The addition of 400 brokers covering the grocery field brings the listings to 4,000. There are also 2.000 frozen food brokers listed. Information includes the type of products sold by the brokers and markets they cover. To foster growth of food exporting, Volume One provides aids in developing export trade and in-cludes a list of trade offices in the United States of countries that are among our best food customers.

Public dry and refrigerated warehouses and exporters have separate thumb-indexed sections in Volume

In Volume Two, the statistical breakdown shows there are 1,000 canners and 1.000 frozen food processors, 800 importers and hundreds of listings under categories such as bakeries, confectionery and meat packers. There's a separate brand names/ trademarks section with 8,000 listings.

Volume Two also has manufacturers of non-foods including health & beauty aids, machinery used by the industry, supplies, equipment, back room needs, warehouse trucks, data processing and materials handling rms as well as freight carriers and service companies.

Food manufacturer listings show products are packaged in consumer or institutional trade sizes, in bulk or under private label

The new edition, available on a 10purchased separately is \$32. Write to no other source, single or collective, Thomas Grocery Register, 1 Penn can match. Plaza, New York, NY 10001. Selling at

Market Scope

The new, expanded 1976 Market Scope, now available from the Progressive Grocer Company, offers a basis and gene comprehensive share-of-market analy- are available. sis of grocery distribution in the top

offices. Their data includes names of 249 U.S. Metro Areas-40 more than in the 1975 edition.

Market Scope is a valuable tool for developing and improving marketing plans, determining sales quotas, analyzing distribution patterns, checking retail sales coverage, locating major distribution centers, selecting test markets, entering new markets and as a ready-reference for complete data not available in other marketing publications. It is used by manufacturers, wholesalers, retailers, advertising agencies, libraries and others interested in the distribution of products through super markets and convenience stores.

600 Page Sourcebook

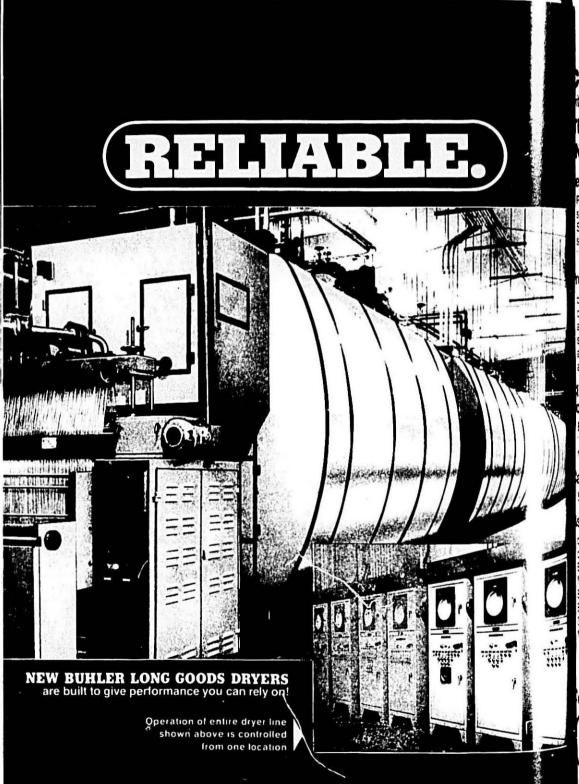
In this over-600-page sourcebook, Metro Areas are arranged alphabetically by state. Share-of-market data includes: Names of all chain and wholesale distribution centers operating in each market; names, buying office locations and number of stores operated by chains and retail groups the market; the percentage of food store sales accounted for by each retail organization; market share ranking of each distribution center; and the total number of stores served by each chain or wholesale buying office.

In addition, demographic information for each Metro Area includes the name of each county in the market and its: Neilsen rating; population; projected 1976 total food store sales; total number of food stores, convenience stores and super markets, and number of chain and independent supers; total convenience stores; and average sales per super market.

The average number of checkouts per super market and the square feet of selling area per checkout for each Metro Area also are included.

This year's 40 additional Metro Areas include such markets as Lincon. Neb., and Tallahassee, Fla., as well as less-familiar ones like Provoday free trial basis, is priced at \$48 Orem, Utah, and Richland-Kennefor the 2-volume set; each volume wick, Wash., providing coverage that

> Selling at \$79.95 a copy—about 32¢ per Metro Area—Market Scope is currently available from Progressive Grocer, Dept. C, 708 Third Avenue, New York, New York 10017, The book is offered on a 10-day, free-inspection basis and generous quantity discounts



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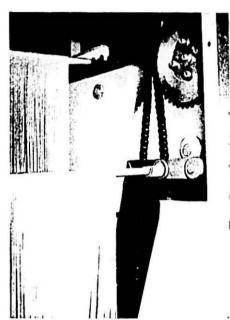
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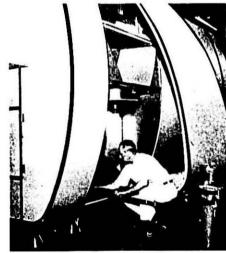
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Complexities of "Food Standards"

from The Professional Nutritionist

n most countries the definition of "food" is clear and concise. So is the explanation for "standards." But in the United States, when combined as "food standards," the words virtually become an idiom. They often lend themselves to confusing and self- regulations-if the person knows they interest interpretations by consumers. industry and nutritionists-and even by government officials who are charged with defining and communicating the words' precise meanings.

Food standards in the United States are covered in the chapters of the Code of Federal Regulations (CFR) which describe in official language what a food is. They are prepared and issued by the Food and Drug Administration's (FDA) Bureau of Foods.

What constitutes a food item? What kind of syrup and how much of it may be in certain sized cans of fruit? How many eggs in mayonnaise? The CFR has the answers.

In some cases CFR chapters describe how much food must be in a an artificial trade barrier. Higher- and a processor could use any in particular size of container. Those amounts would be expanded if a current FDA proposal concerning "drained weight" is finally promulgated. Again with exceptions, the chapters provide that a food must be labeled as 'imitation' if it doesn't fit the described standards.

As might be expected in so complex a subject, progress is slow in development of a complete and workable set of standards that is acceptable to all concerned.

There appears to be some forward motion: actions suggest that tangible, understandable and realistic guidelines are evolving. Most important is "amending." It is playing a key role in the evolution of food standards. Industry, consumers, nutritionists and others with proprietary interests in food standards continue to submit amendments that languish or seem to go ignored. But increasing numbers are getting through.

Interlocking Complexities

A review of the current situation underscores the many interlocking complexities inherent in establishing sound food standards in the U.S.-or anywhere in the world.

• Only specialized experts can com- approach, which dominate prehend the tangle of legalistic re-quirements in the food standards reg-fied in the standards, alon with quirements in the food standards reg-

· When a food is covered by a standard, the only way a consumer can find out what must be in the food is to ask an expert or try to unsnarl the exist.

• Standards can contribute to high food prices. Although designed only to protect against lower quality, certain standards may also work to prohibit the introduction of lower-cost safe substitute ingredients which would not lower quality. A food manufacturer who doesn't want to use the cheaper (competitive) substitute, could simply state in its proposed food standards comments to FDA that use of the substitute ingredient would lead to deterioration of quality. Such objections must be carefully studied by the agency.

• Restricted international trade also can result. The standard, in effect, is entire "recipe" would be spelled of priced, less competitive domestic products result.

Some standards have long served to forestall innovation and flexibility in food processing, packaging, competition and consumption.

Although many of these problems have been evident for a long time, they only recently have been publicized widely due to consumer objections, particularly in the last few years. Yet the standards process was never as static as persons outside the food field might suppose. A constant proposal-disposal process includes continuing proposals from industry or

USDA Standards

U.S. Department of Agriculture (USDA) has a different and just-asextensive set of rules covering any food that has meat or poultry in it.

An important difference in the USDA standards: they concentrate on labeling, rather than on actual "recipes" for a food. USDA, in effect, leaves it up to the processor to decide what will be in a food, and in what proportion, so long as these ingredients and proportions are placed on the label. However, under the "recipe"

proportion; but for most standardin foods this information is no requ to appear on the label.

Because the agencies have usur been able to gree on whether a purious duct technically has meat in it, or flicts between the two sets of regu tions have been minimal.

It is the "recipe" nature of the fo standards governed by FDA that h led to many of the complaints reguling their lack of flexibility—and, u mately, to the "safe and suitable" proach. Until a decade ago, all FI standards were of the recipe ty Anything that wasn't in the recipied called for the food to be labeled in tation."

Under the impetus of a 1969 W House Conference on Food, Nut tion and Health, FDA began that ye to write a new kind of standard some foods. Under this method, dients desired if these were l "safe" and "suitable."

The process for amending stan ards was not changed appreci although some streamlining has take place and more is being at empted the agency. But the number of m ters in controversy were c nsiden lessened by the adoption and suitable" approach.

This approach is being most foods today—excep hat Fl hasn't yet been able to get sive job of rewriting all f the recipe standards.

Fundamental Cha .6

The change to "safe as suitab ingredient standards wa a fund mental one. A major effect initial encouragement of innoval n in fo processing. If a food proce or wa to look for a safe and suit. He sub tute ingredient, he could have a sonable assurance that it would be turned down on an arbitrary b If it worked and was safe, there no basis for FDA refusal-unless processors had objections which ited further study.

The words "safe" and "su have very specific meanings (Continued on page 32)

THE MACARONI JOURN

JARY, 1977



The cook with sitting right around the family table. So the smart cook really uses her head...and serves up good-tasting noodle dishes.

But the best noodle dishes begin long before they her noodle.

has to use reach the table. They begin on the farms of the northern plains, where the nation's best durum wheat is grown. plains, where the nation's best durum wheat is grown. From this durum wheat, Amber Milling mills fine pasta ingredients...Venezia No. 1 Semolina, Imperia Durum Granular, or Crestal Fancy Durum Patent Flour.

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Complexities of Food Standards

law when related to food standards. "Suitable" is easiest. The additive or ingredient must have a functional purpose in the food.
"Safe" takes a little more explain-

ing. Briefly, an ingredient is safe if it is either (1) "generally recognized as "safe" (GRAS), or (2) covered by an

Although the latter definition might stand up in court, GRAS ingredients generally can be described as ingre-dients which were in use before the enactment of food additive laws, and for which there have been no indications of a lack of safety. In a few instances new ingredients can receive "GRAS affirmation" from FDA.

Ingredients covered by Food Additive Regulations also are listed in CFR. They include anticaking agents, preservatives, emulsifiers, stabilizers and others.

One by one, food standards are being changed to require declarations on the food labels of all optional ingredients in the standardized foods. However, FDA has pointed out that it has no authority to require listings of mandatory ingredients.

Consumers may or may not content themselves with this action by FDA. If not, they can be expected to give a push to Senate Bill 641, which was passed by the Senate this spring. Among other areas, S.641 would require label listing of mandatory as well as optional ingredients.

World Standards

Another problem with U.S. food standards is that they were written (for the most part) with little attention to what was going on in the rest of the world.

An international organization under the auspices of the World Health Organization and Food and Agricultural Organization—Codex Alimentarius has been working for years to establish voluntary international standards for foods. The United States (FDA and USDA) has been represented on Codex Alimentarius since its begin-

But it has been only in the last few years that Codex has developed standards for which FDA can begin to bring U.S. standards into line, FDA standards writers are now attempting to meet international needs.

Of course, there is no guarantee of mentally retarded, which a structure of mentally retarded success; in some areas the attempt is almost certainly doomed to failure. Food traditions and "taboos" among certain ethnic groups and "tribes" are strongly held; food "culture" cannot be dictated to them. Another formidable obstacle: international economic complications.

As previously noted, the rationale for international standards is that reapproved Food Additive Regulation. strictive national standards tend to create artificial barriers both for products exported or imported. It is easy for "protectionist" sentiment to hide behind food standards, although there are many genuine attempts to maintain a line of food quality. Of course, there are many other factors that complicate the effort to adopt interna-

Hope for the future

The system is far from perfect. Industry, nutritionists, consumers and agency officials are far from satisfied. A way must be found to expedite amendments, and to overcome the economic (and potentially nutritional) harm for all that results from the delay in approval of safe and suitable food ingredients.

Despite these complexities and conflicts, FDA is indeed moving ahead and trying to change standards on a wide front. The initial evidence of success or failure of this evolution will be in the actions and reactions of the interested parties involved in each of the proposed revisions, and finally in their issuance. The longrange measure, however, will be in the effect revised standards have on the quality, safety and prices of foods for U.S. consumers-and, indirectly, throughout the world.

Child Nutrition Program Law

A new law, P.L. 94-105, makes a number of substantial changes in the Child Nutrition Program administered by USDA. The changes could materially affect marketing programs of some food processors.

USDA has summarized some of the major changes as follows:

"For purposes of food programs, school has been redefined to include institutions where children live. This in effect extends the National School Lunch Program to institutions, such as orphanages and hospitals for the

tured to serve children bu do no necessarily have education ograms
Private as well as public is itution are eligible if they are lice sed at non-profit.

"The National Breakfast Progra received permanent authorization The program has been a pilot project available in about 16 percent of the schools participating in the Nationa School Lunch Program. Now am school that needs to provide breakf can join.

"Senior high school students now have the right to decide what the want for lunch and are not requir to take food they don't intend to eat This means high school cafeteris must "offer" instead of "serve" the Type A lunch prescribed by the Na tional School Lunch Program. How ever, students still must pay the ful price for the Type A lunch whether not they take all the compone This change is aimed at the proble of food waste, a problem primarily high school lunch programs.

Reduced-Price Lunches

"All schools participating in the National School Lunch Program an now required to offer reduced-prio lunches to needy children. Also famil income eligibility is now set at 9 percent above the income pove guidelines rather than the previo maximum of 75 percent.

"The Child Care Food Pogram now available to all public and pr vate, non-profit day care co iters, in cluding family day care hor 25, Hea Start Centers, settlement h ises and recreation centers. Before P . 94-10 the program was avail, le on through day care centers i areas or in areas with a g at man working mothers.

"The Summer Food Pre ram been extended to residentia summ camps. It is limited to nonr nonprofit public and private institu tions, such as city recrea on programs. Too, summer camps and non residential institutions qualify for the program if one-third, rather than one half, of the children they serve an needy; and all meals are now serve

"The Supplemental Food Program for Woman, Infants, and Children (WIC) was extended through Sep tember, 1978.

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Noodles Galore

Chef Merry White brings together 203 international recipes for one of the world's staples in her new cookbook, Noodles Galore, published November 18, by Basic Books, New York

Illustrated by New Yorker cartoonist Edward Koren, the book includes recipes based on noodles of oriental and western origin for every course, from Mexican Vermicelli Soup to Tossed Salad with Garlie Noodles to Noodle Pudding Souffle, Ms. White also presents recipes for entrees combining noodles with eggs, cheese, vegetables, fish, meats, and poultry.

Professional Cook

A professional cook and Harvard graduate student who has just returned from a year in Japan, Ms. White explains in her introductory chapter that "noodles appear in virtually every culture, in a dazzling profusion of shapes, and in a surprising variety of cooking styles . . . the principal reason for the universality of the noodle is its economy."

She surveys recent discoveries in the nutritional value of the noodle, and includes a short history of its origin (myth has it that Marco Polo brought them to Italy from the Orient).

Ms. White is the author of Cooking for Crowds (Basic Books, 1974), which is highly recommended by Julia Child.

Creamette Ad

Actor Vincent Price will be endorsing the superior wheat The Creamette Company uses for its pasta products in the December and January issues of Family Circle.

An internationally known gourmet, Price will offer a macaroni casserole recipe-- "Vincent's Supper Casserole" -in the four-color "checkerboard" ad, in which he tells readers that Creamettes uses only hard, lean wheat to prevent sticking together or starchy

Price, who has signed a three-year contract as advertising spokesman for The Creamette Company, is also appearing on television, in newspapers and on point-of-purchase materials.

Dumplings

C. F. Mueller Co., Jersey City, is marketing dumpling macaroni, an extra wide, curly shaped product.

Effective Advertising

Newly release data measuring the effectiveness of television commercials show that few TV spots score as high as Golden Grain's series advertising Stir-N-Serv Dinners.

"Only a tenth of the commercials test as high as the Stir-N-Serv spots," said the research supervisor of nationally known Burke testing service.

Especially noteworthy in the series is the Stir-N-Serv Brunch commercial featuring TV personality Susan Tolsky. Brunch is Golden Grain's newest addition to the Stir-N-Serv line. It makes a gourmet-type dish of ten-der thin egg noodles with rare cheeses, herbs and mushrooms in the sauce. Eggs may be added if desired. The Brunch commercial and the other high test Stir-N-Serv TV spots are cur- tail food outlets and allied industri rently on the air in West Coast markets and elsewhere.

Pictured at the time the commercials were filmed are cameraman Kent Wakefield, art director lack Keeler of Vantage Advertising and TV actress Susan Tolsky.



Ronco Ad

A recipe for easy-cooking "Noodles Stroganoff," made with beef and Ronco Egg Noodles, was featured in this four-color, two-thirds-page ad appearing in December Family Circle. The ad is one of a continuing series of ads for products by Ronco Foods.

Food Consumption

USDA reports that the average American family of four eats about 2½ tons of food a year. This breaks down to 1,154 pounds of vegetables, 1,136 pounds of dairy products, 694 pounds of meat and fish, 598 pounds of fruit, 592 pounds of grain products, and 349 pounds of poultry.

Macaroni consumption is placed at 10.5 pounds per person in 19/6.

New York State Lenten Promotion

The New York State De artmen of Agriculture and Markets i launch ing another major campaig consumers about New York S te foo products. A cooperative effect of al segments of the food industr will b organized for a Lenten (February 23. April 9) promotion of macaoni cheese products.

Supermarket Promotion

Bill Byrne, the Department's coordinator of supermarket promoti will spearhead the campaign working under Deputy Commissione ing under Deputy. Commissione Doris Cadoux. Participating in the promotion are the State's chedda cheese and macaroni producers, i

"The cheese and food manufa turers' reception to the campaign h been very enthusiastic," accordi Byrne. "Advertising themes and terials will be developed by the D partment," added Byrne.

The "Produced in N.Y. State/We're in a great state for cheese" prom tion, which was commenced la spring, resulted in a dramatic increa of New York State cheese sales. "This promotion," according to Mr. Cadoux, "will maintain that momentum and involve other New York State food industries. The retailer reception of the entire 'Grown, Pro duced and Processed in N.Y. State program has been excellent," add Mrs. Cadoux.

Consumer Option

Consumers must be infor: ed of the many options they have wi buyin food. Since beginning the ew Yor State product identification in 1973 the Department found that nsumer prefer to purchase food 1 m their State's producers. We interestinue to keep our consumer nformed in every way possible, so the can op to purchase New York S te prod ucts. Retailers' use of the D partmen logos identifying New Y ik State foods have assisted the co-sumer to purchase those foods.

Details of the upcoming will be released in early 19.7. Mea while, Bill Byrne will be contact stores and food manufacturers to wo toward the goal of calling the public attention to yet another New Yor State cooperative effort.

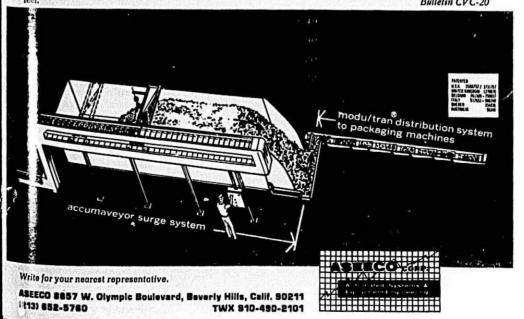


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Custom Design Process Vibratory Units are available incorporating sanitary quick release clamped screen decks for scalping or dewatering: Cooling or drying plenums; covers; multiple gales for proportioning feeds.
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dynamically balanced for minimal vibration transmittal.

Bulletin CVC-20



THE MACARONI JOURNA

Campbell Achieves Records

Campbell Soup Company achieved record sales and earnings during the Company's 1976 fiscal year, and in the 1977 fiscal first quarter as "sales volume increased broadly across our major product categories," President Harold A. Shaub told the Company's annual meeting of stockholders.

Volume accounted for 70% of the Company's increased sales during the first quarter ended October 31. As announced the previous day, consolidated sales in the quarter total. \$439.351.000, an increase of 10 over sales in the previous first quarter, while net earnings per share rose by 7.2%, from 69 cents to 74 cents.

New Products

"While about 55% of our sales growth over the past 10 years has come from new products, this percentage is expected to increase during the next several years," Mr. Shaub told the meeting. "Since the beginning of our current fiscal year on August 1, in the United States alone, more than 15 new products have been introduced in national or broad regional distribution, and 24 additional new products placed in market tests."

Noting that 'severe inflation rates were substantially reduced in the United States in the past year," Mr. Shaub said that "a contininuing disturbing factor in the international economic scene is the high rate of inflation coupled with the presence of ineffective and, in our opinion, largely counter-productive, restrictive controls in a number of countries."

Expenditures on Improvements

The Company is projecting expenditures of some \$70 to \$75 million for expansion and improvements in the current fiscal year, following record capital expenditures of \$66 million in fiscal 1976, stockholders were told.

The Company emphasizes expenditures on improvements that help increase quality, capacity and productivity, Mr. Shaub said. "We feel strongthat our plants and equipment should be kept as modern and up-todate as possible in order to maintain and improve on the efficiency which has always been a Campbell hall-

Significant project expenditures in the past year included funds for completion of the new tomato paste

processing plant at Guasave, Mexico, soned sauce, tortoni puddin and which is now operational; a new regional Pepperidge Farm bakery at Aiken, South Carolina, and start-up work on a major new Pepperidge Farm bakery at Willard, Ohio, scheduled to be completed next spring; the Company's new agricultural research complex at Napoleon, Ohio, where several agricultural research programs are being consolidated; and major improvements or expansion at a number of processing plants including those at Sacramento, California; mond, Utah; Napoleon, Ohio, and Products nden, New Jersey.

World Markets

Campbell currently sells products to approximately 115 markets throughthe world, including Israel and Arab countries, Mr. Shaub said, stating that Campbell "is not and never been a participant in the Arab League Boycott against Israel." He assured the meeting that Campbell intends to defend an antitrust suit recently filed by the H. J. Heinz "vigorously and success-

Hungry-Man Dinners

Campbell Soup Co., Camden, N.J., is introducing nationally two varieties of Swanson Hungry-Man dinnerslasagna with meat, and spaghetti & meatballs. The former contains lasagna with meat in tomato sauce, bean salad, pudding cake and a garlic roll. The latter includes spinach with sea-



Super Server: New "Spork" with magic fingers offers its user effortless one handed service of noodles, been sprouts, spaghetti (hardest to handle food of all), etc. Also ideal as boiled egg grabber with hole for drainage. Made of durable high impact plastic with glossy white finish. Heat resistant and dishwasher safe. Full 30 day money back guarantee if not pleased. Available for \$1.49 postpaid from SCP, 1345 Ham Ave., Box 1200, Cupertino, CA 95014.

garlic roll.

Customers will be offer refund via point-of-sale mat ials for proof of purchase of two of he nev dinners. Knitted ski caps in her the traditional tassel cap or sl r's ca style, featuring the Hungry lan le tering will be offered free for variet name panels from any five cartons in the entire line.

New Franco-American

Three new, easy-to-prepare and eat "Franco-American" pasta products-Rotini, Rotini & Meatballs and Beef Ravioli-are being introduced nation ally by Campbell Soup Company.

Rotini and Rotini & Meatballs are the newest additions to the 'Franco-American" line of popular cannot macaroni products moving into national retail distribution. Rotini contains enriched macaroni twirls in a rich, tangy tomato sauce, while Rotini & Meatballs features the same curly macaroni and sauce with beefy meat-

Beef Ravioli—plump beefy square in a tasty meat sauce—is also going national following successful consumer testing.

"These distinctively new pasta products are convenient, economical and tasty, and are great for the whole family as a delicious lunchtime of dinnertime dish," C. S. Con er, product marketing director -Franco-American products said. "Re-earch in dicates the new Rotini ad Bee Ravioli products will compinent the existing 'Franco-American' ine at broaden consumer appeal pasta products," he said.

A combination of televis paper coupon and magazin dverti ing will support the new produc beginning in January. Two ads with coupons worth 1 the purchase of one can of ther new Rotini or Beef Ravioli pre uct wi appear in mid-January in m or news papers will 32 million circu ation.

Magazine advertisements e school uled for the March issues of the major women's magazines. Network prime, daytime and weekend child ren's programming television com mercials will appear beginning in Jan uary. Versatile point-of-sale material will also be available.

lew G: und Tester

One of the fundamental health ands sight out-and cited-by ectors is the astonishing valence of ungrounded or imounded electrical equipitlets. Violation penalties rage at out \$26.60 per receptacle electric cool! If a short occurs, a roon can be badly burned or alled outright; electrical shorts main till machine operators, maintene people, construction workers, ke girls, plumbers, homeowners, sewives and children-nobody is mune. As a major contribution to dety campaigns, those who prefer avoid expensive OSHA citations, d those who want safer stores,

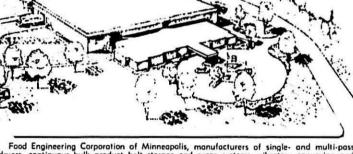
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earch Report

Bulletin No. 504, Final Project Reof the Use of the Unique North Dakota.



Food Engineering Corporation of Minneapolis, manufacturers of single- and multi-pass dryers, continuous bulk product belt storage and surge systems, vibratory conveying and classifying systems, and other food processing equipment, has begun construction of a new building in the City of Plymouth, Minnesota, a western suburb of Minneapolis, reports Ralph Burgess, President.

The building will be a 51,450 square feet phase I manufacturing and assembly plant with adjoining engineering and administration offices which the firm hopes to occu in May, 1977. The new site will allow the eventual expansions, which are already bel planned, to grow to a maximum building size of about 135,000 square feet.

Scientist Criticizes Verbal Hogwash

"It may not be nice to fool Mother Nature but sometimes she fools us by including toxic substances in the food we eat.

Dr. Richard L. Hall, Vice President-Science and Technology for Me-Cormick & Co., Inc., stresses that much of the American public is being fed "verbal hogwash" about vast differences between "natural" and processed foods.

In a recent speech before Sigma Xi national honorary scientific fraternity, Dr. Hall pointed out that Mother Nature often adds toxic substances to our food supply that governmental agencies would never permit companies to include. In many cases, he said, processed foods are safer than natural.

For example, he said a raspberry grown naturally on the vine with no sprays and no man-made fertilizers still contains traces of three naturally occurring poisonous substances, adding that you'd have to eat enormous amounts of raspberries to receive any

"We've simply put the emphasis on wrong things," he said. "The least harmful rather than the most harmrectional Characteristics of Wheat ful health hazards in food are the product Development" is available ones getting the major attention in a North Dakota State University, the press, in legislation and from con-

Ignored Hazards

"The two hazards which are most serious-microbiological and nutritional-are widely ignored, yet they are precisely the ones most within the control of individual consumers."

Dr. Hall, who heads research and development activities for the Baltimore-based seasonings, spices, flavorings and speciality foods firm, said:

"Potential dangers from food additives, pesticidal residues and environmental pollutants are both remote and small, but consumer interest has been focused on them-instead of ou hazards of food preparation and storage in the home, which clearly are far greater.

"The best way for individuals to enhance food safety and avoid microbiological and nutritional hazards is by paying careful attention to variety in the diet, to proper sanitation procedures and by eating with modera-

"It's perspective and context which are lacking in most talk about food safety," he said. "We need to develop

"Safety is simply the absence of hazard. Since we can never be free of all hazard, no matter how uncertain or remote, it makes sense to say that relative safety is the relative absence of hazard."

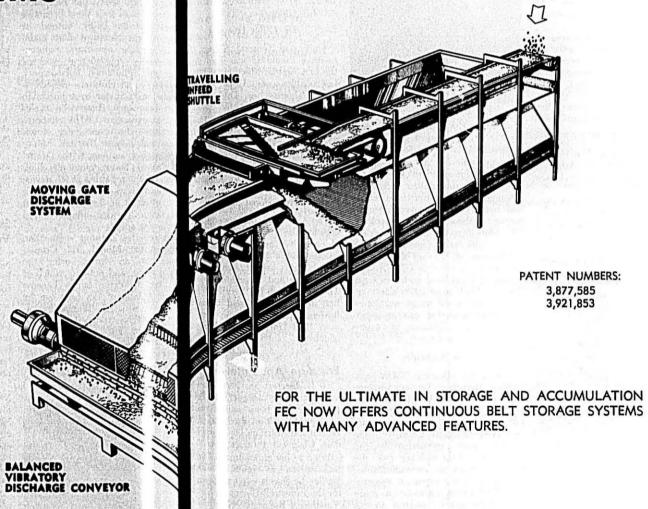
THE MACARONI JOURNA

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Verbal Hogwash Criticized

(Continued from page 37)

Dr. Hall quoted Dr. Virgil Wodicka, former director of the Bureau of Foods of the Food and Drug Administration, as listing the sources of hazards in the following order: microbiological, nutritional, environmental pollutants, natural toxicants, pesticidal residues and food additives.

Science, said Dr. Hall, is increasingly adept at finding hazards in the environment where none was previously

But he went on, "when found against the background of such inflexible concepts as 'no residue,' they create problems of regulation and consumer understanding."

The ability of science, he said, to find traces of substances in food is not matched by science's ability to know for sure if the newly found trace is safe or harmful

An "enormous variety of toxic substances" are found in food naturally, he said, and there even are rare-and rarely serious-hazards from food

But, he said, "most people assume without thinking that food should be absolutely safe. This, of course, is not and cannot be so. Absolute safety is absolutely unattainable—even Mother Nature."

Cereal Chemists Meet

The food industry's hottest topicfiber in the diet-received primary focus during the 61st Annual Meeting of the American Association of Cereal Chemists in New Orleans.

In all, 27 out of the 183 papers in the technical program dealt with the subject of food fiber. Dr. M. A. Eastwood, Western General Hospital, Edinburgh, Scotland, said cereals are not the only source of fiber and that relating everything to bran or cellulose was nonsense. Other plants such as carrots and apples are equally valuable sources of crude fiber. Dr. Eastwood declared bran isn't something you ladle into your diet, although it may plan an important role in the reduction of diverticular disease.

Government Regulations

Another "hot" topic-government regulations-drew many meeting participants to a symposium on "The ticipants to a symposium on "The Impact of New Food Regulations on the 945 employees and an estimated \$62 Cereal Industries." Leading off the million; this latter figure contrasts



symposium, Howard R. Roberts, Acting Director, Bureau of Foods, FDA, summarized the Agency's current review program on the safety of all food and color additives. He said the program was undertaken because of sumer demands for food safety and because of improved scientific testing methodology in toxicology. Five years away from completion, the review calls for: completion of the safety review of the uses of non-flavor ingredients classified as GRAS; safety review of threat food additives regulated by FDA since 1958; safety review of flavors and spices; evaluation of procedures used to measure occurrence of indirect additives; and safety review of color additives.

Grain Standards

Donald E. Wilkinson, USDA Agricultural Marketing Service Administrator, reviewed the U.S. Grain Standards Act of 1976. Indicating that it was probably the strongest measure ever taken to ensure integrity in the national grain inspection system, Wilkinson said the new law gives the federal government responsibility for inspecting grain at export. It also provides USDA with a mandate to study the current grain standards to en-courage the production of high quality grain and to better meet the end use requirements of buyers. Wilkinson also noted that the new legislation calls for a Federal Grain Inspection Service within the USDA which virtually cancels the current capability to AMS to cross-utilize its Grain Division employees for a variety of duties. Establishment of this new agency would require an additional

with \$9 million USDA sper on inspection in 1976.

Continuing with the dis ussion grain standards, Henry H. (aufm of Cargill, Inc. urged the care taken in changing stan ards, stressed that any chan es m should be of commercial value actually attainable.

Dr. Gilles Honored

Only one General Session tinental Breakfast was held du the 61st Annual Meeting. The bre fast was the scene of the present of the Thomas Burr Osborne Me to Isydore Hlynka. After accep the award from President How Becker, Dr. Hlynka presented Thomas Burr Osborne Address, In traditional surprise ceremony, William F. Geddes Memorial Av was presented to Dr. Kenneth

Professional Society

The AACC, the leading profess organization in its field, is comp executives and scientists engag in the overall process of conver cereal grains (wheat, rice, corn, into edible and non-edible prox The Association has over 2,500 me bers in 34 countries, and its two fessional publications are read more than 4,000 scientists in over countries.

Eastman Appointme: ts

G. H. Doefert has been upp field marketing manager, and Ro J. Evans has been name Manager, Nutrition Produ , for Health and Nutrition Divis nof I man Chemical Products '.c.

Prior to his appointmen Does had served as product mana Earlier he was a product for the Industrial Chemica Divi A native of Rochester, N.1 he gra uated from Heidelberg Co lege a B.S. in chemistry. He als recei a Bachelor of Laws de ree fro LaSalle Extension University. a member of the America Asso tion of Cereal Chemists.

Evans is a native of Buffalo, 8 uating from the University of Bu with a B.A. degree in chemistry foods and nutrition. The Navy veter is a member of the American Chemist's Society.

nves 13/4c per cwt. mentily in pasta production promotion, 🕏 consumer education, and trade advertising to keep sales up.

Constant promotion of macaroni, spaghetti, and egg noodles by the National Macaroni Institute, keeps these products in the consumer's view.

Receipes and photographs go to food editors of every type of media.

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films and film strips are distributed for general use and special television

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Packaging Institute President

Richard H. Deane, Technical Advisor Packaging, Eastman Kodak Co., Rochester, N.Y. was elected President of The Packaging Institute U.S.A. for 1977. Mr. Deane, a consultant to Kodak management on special packpreviously served PI/USA as First Vice President and Treasurer and as Vice President, "ducation. He attended the University of Rochester and is active in the Rochester Area Pack-



Albert J. Ravarino

Albert J. Ravarino, 63, president of Ravarino & Freschi, Inc. of St. Louis, died Nov. 15 after suffering a heart attack in his sleep while visiting in Mexico City. He was in Mexico City with other St. Louis businessmen on a trip sponsored by the St. Louis

After attending St. Louis University High School, Mr. Ravarino was graduated from the University of Notre Dame in 1935. He sold pasta to the fraternities while in school. He

Mr. Ravarino had been a member of the board of directors of the National Macaroni Manufacturers Association for many years. He was president in 1962-64 and was Chairman of the National Macaroni Institute for several years following.

Survivors include his wife, Helen Marie; two daughters, Anne Marie and Mirella; and two brothers, Ernest of St. Louis who is in the business, and Mario of Bologna, Italy.

Corrugated Box Manual

A new edition of the corrugated industry's basic reference, the "Fibre Box Handbook," are available from box manufacturers, according to Thomas M. Wall, chairman of the aging projects, ecology and plastics, Fibre Box Association committee guiding the publication.

Members of the trade group, who produce almost 90 percent of the nation's corrugated containers, have ordered 66,000 copies for distribution to box buyers and users, Wall said.

This will bring the total to approximately one million copies deribute since the first edition in 19 :

The 104-page manual, sub-led A illustrated reference for signer engineers, buyers and rurkets specialists," is divided into ree

Introductory material describes t ntroductory material describes to protective ability of corrugated, and the versatility which can be obtaine through design, graphics and othe techniques. A checklist for box user lists many of the factors to be considered in box selection. Basic design of the control of the on metric measurements is also pro

Basics of Boxes

The second section, "The Basics Boxes," offers definitions of industrial terminology, a description of box co struction, and illustrations of comm struction, and illustrations of commo box styles. Standardized testing pr cedures, voluntary standards for ma ufacturing tolerances, and reco-mended practices for box storage at the use of adhesives are among other topics covered.

Regulations

The final section on "Regulation to the fraternities while in school. He then began working full time for Ravarino & Freschi which had been founded by his father and Joseph Freschi. He was named president in 1949.

Always active in industry affairs, Mr. Bavarino had been a worker with summaries of those use the second of the se less frequently.

The Association members plants which will be districting the book are scattered throu hout the United States. They are lied in the classified sections of local elephon directories under "Boxes—(mugalo and Fiber."

Divider & Converger Data Sheet

A new data sheet is ava ible from Hi-Speed Checkweigher C , Inc. its package line divider and onver system—the Magnetic Flov Director Included in the four-page brochu is information on the Mag. etic Flo Director's application and purpos operation, design and constructe features, condensed specifications, well as potential MFD applications

Copies of Data Sheet 76-1 on t Magnetic Flow Director are a able from Hi-Speed Checkweig Co., Inc. P.O. Box 314-MJ, Ithan

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