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ADDRESS INQUIRIES TO "COMMERCIAL STANDARDS"
ROOM 316 COMMERCE BUILDING,
WASHINGTON, D. C.

"SIMPLIFIED PRACTICE - AN EFFECTIVE REMEDY FOR DIVERSIFICATION "

1. RESULTS AND BENEFITS OF APPLYING SIMPLIFIED PRACTICE TO FILES AND RASPS.

The Division of Simplified Practice has just made available the results of a survey to determine the benefits which followed the simplification of files and rasps.

For many years prior to the World War the manufacturers of files and rasps had been making their product in an excessive variety of sizes and styles. During 1918 the Conservation Division of the War Industries Board in cooperation with the manufacturers discovered that no less than 1,351 varieties were then being offered to the trade and that less than half of these would meet normal demands. The necessities of war made it imperative that all possible economies be strictly observed to the end that no material nor human energy be wasted. The Conservation Division therefore, effected an elimination of 732 of these unnecessary items, the manufacture and distribution of which was costing the industry much money and effort in the form of excessive inventories of raw and finished materials, storage and handling, selling expense, etc.

After the war was ended and the War Industries Board dissolved, the manufacturers cooperated with the then newly created Division of Simplified Practice to further reduce the varieties of their product. The present Simplified Practice Recommendation which resulted contains only 849 varieties of files and rasps and constitutes an elimination of 867 of the original 1351 sizes and types.

Five years have elapsed since the recommendation went into effect. In answer to the question - "Has the application of this simplified practice been beneficial to the industry?, the following facts are of interest.

A survey of production conducted by the division in 1927 showed that during the year of 1926, 93% of the total volume, of producers who had accepted the recommendation, was in the standard sizes and types comprising the simplified list. The question as to whether the demand for the non-standard items was sufficient to warrant including them in the recommendation was answered, - No. Four of the seven manufacturers included declared that consumer demand indicated that further elimination could advantageously be effected.

Several months ago the Division addressed a request to all the acceptors of the recommendation asking them to evaluate the benefits of this simplified practice. One manufacturer said that since adopting the simplified practice recommendation his business has increased in volume 33.3% and that volume of inventory had decreased 25%. Another said his sales had increased 23.5% while inventory decreased 35%. Benefits such as reduced investment in dies, reduced inventory investment, quicker turnover, and better control of production, were also cited.

Distributors have benefitted through decreased inventory investment, quicker turnover, reduced storage requirements, and better service from the manufacturer.

Users are benefitting through quicker service, but no doubt their most outstanding benefit is the protection that simplified practice affords against the innumerable whims and fancies of those who feel they must have special sizes or cuts of files rather than the standard items. The standing committee's survey showed that out of the seven manufacturers, six answered "yes" to the question - "Is there a price differential favoring the simplified lines as against non-standard items?" This means that under simplified practice the old system of spreading the extra cost of producing specials over the whole line and making the buyer of standard items help pay the additional expense involved, has been to a large extent, discontinued.
SIMPLIFIED PRACTICE

Edwin W. Fly.

2. DIVISION NEWS

Manufacturers depend not alone upon rapid turn-over of goods for their profits. We are prone to confine our conception of turn-over to the products themselves whereas we should give some thought to the flexibility of the financial structure as well. That is, the turn-over of working capital. If the commodities a manufacturer passes on to his jobbers, wholesalers and retailers have been produced for a market that has been thoroughly analyzed as to demand, the chances for quick payment of bills are increased and consequent reinvestment of funds is assured.

Lack of capital is not always the true cause of manufacturers' ills. Lack of fluid capital, or "ready money" is often the true diagnosis. Industry has found that the intelligent application of the principles of Simplified Practice in business hastens physical turn-over and quickens the flow of "ready money."

Floor Sweeps.

The Division wishes to announce that the individual companies and groups that have indicated their approval of Simplified Practice Recommendation No. 88. Floor Sweeps, represent the opinion of those who are concerned with at least 80 per cent of the volume of this commodity. The effective date for the program is January 1, 1929, and it will sustain annual revision.

Bottles for Carbonated Beverages.

A number of bottle manufacturers have submitted to this Division their contribution to a consolidated report showing the relative demand for the various sizes and capacities of carbonated beverage bottles now being used. The data thus compiled will be used by the industry as a basis for a simplified practice recommendation covering bottle heights, capacities, diameters, and weights of glass.

Glass Containers for Drugs.

A sub-committee, which was appointed by the chairman of the joint simplified practice committee of the Association at a meeting held on December 13, is now working on the preparation of a suitable questionnaire which is to be sent out in the near future to manufacturers of bottles for data which can be used as a basis for the development of a definite simplified practice recommendation for stock bottles and jars used in the drug and pharmaceutical industries. This survey has the support of the Glass Container Association, the American Hospital Association, and all the National drug and pharmaceutical Associations.

Olive Jars.

The Division is in receipt of a number of letters from olive packers indicating that there are entirely too many varieties of bottles used for packing olives. It is the belief of the olive packers that a simplification program, similar to that recently developed for preserve jars and jelly glasses, would be entirely practicable.
Pickle Jars.

It is the opinion of the pickle industry that some concerted action should be taken toward the simplification of glass containers used in packing pickles and condiments. Towards that end the cooperation of the Division has been requested.

Hospital Plumbing Fixtures.

At the request of the American Hospital Association, the Division is arranging for a preliminary conference to be held in Chicago, Illinois, on February 20th, to complete the formulation of a tentative simplified stock list of hospital plumbing fixtures. Representatives of the fixture manufacturers, architects and hospital consultants have united to participate in the discussion. A general conference of manufacturers, distributors, and users of hospital plumbing fixtures will ultimately be called to draft a final simplified practice recommendation for the guidance of all concerned.

Glass Containers for Preserves, Jellies and Apple Butter.

At the January meeting of the National Preservers' Association, in Chicago, Illinois, announcement was made by a representative of the Division that sufficient acceptances had been received to justify the final publication of Simplified Practice Recommendation #91, Preserve Jars, Jelly Glasses, and Apple Butter Jars. The recommendation became effective January 1, 1928, for new production; and January 1, 1929 for spot stocks.

Grinding Wheels.

A sufficient number of signed acceptances having been received this Division announces that the 1st Revision Edition of Simplified Practice Recommendation No. 45 Grinding Wheels, is now in effect. The combined efforts of the General Conference and the first revision resulted in a reduction from approximately 715,200 to 254,000 varieties of grinding wheels, corresponding to an elimination of 64.43%.

Dental Hypodermic Needles.

Manufacturers of Dental Hypodermic Needles met in New York, New York, on January 23 under the auspices of the Division of Simplified Practice to consider the practicability of applying the principles of simplification to their products. The conferees drafted a tentative list of sizes and appointed a manufacturers' committee to prepare a final list which may be used as agenda for the consideration of a general conference of all interests in designing a final Simplified Practice Recommendation.

Malleable Foundry Refractories.

During the month of February the Standing Committee of the Malleable Foundry Industry will convene in Chicago, Illinois for the purpose of considering a revision of Simplified Practice Recommendation No. 79. The date of the meeting will coincide with the sessions of American Ceramic Week.

Shipping Tags.

Upon request of the industry the date for a general conference of manufacturers distributors, and users, of shipping tags has been postponed until later in the current year. This meeting was originally scheduled for January 25, 1929.
Bank Checks.

Simplified Practice Recommendation No. 50, Bank Checks, Notes, Drafts, and Similar Instruments has been reaffirmed in its original form by the Standing Committee of the industry for another twelve months. A survey conducted prior to the revision meeting indicated that the present measurable degree of adherence to the recommendation is 82.64 per cent. The original schedule, which effected a reduction in size from thousands to one size for each instrument, was approved by a general conference of all interests meeting in Washington, D. C., on December 4, 1925. That this program has proved of convenience to the business world is evidence by a prominent banker who is convinced that a continuance of the present degree of adherence will make possible an annual saving of $20,000,000.00 for all concerned.

Simplification Bureau.

The N. R. D. G. Association contemplates the organization of a bureau to devote its time to matters concerning Simplification and Standardization. On January 23, a representative of the Division of Simplified Practice attended a meeting of the Association's special committee, for the purpose of explaining the cooperative services of the Division of Simplified Practice in assisting industry to gain support for programs of its own authorship. The February gathering of the N. R. D. G. Association, will further refine the tentative plan of organizing such a bureau.

Composition Blackboard.

Simplified Practice Recommendation No. 75, Composition Blackboard, has been reaffirmed by the Standing Committee for another twelve months. At the time the recommendation was reviewed, it was the unanimous opinion of those in attendance that the program has proved beneficial. The original simplification promulgated in 1928 reduced the variety in colors, from 3 to 1; widths, from 12 to 8; and lengths from 90 to 13.

Metal Partitions for Toilets and Showers.

A general conference of manufacturers, distributors and users, held on January 16, Washington, D. C. approved a simplified practice recommendation on metal toilet and shower partitions. The recommendation is to be effective for new production on July 1, 1929.

Wheelbarrows.

A survey of the sales of various sizes and types of wheelbarrows for the years 1927 and 1928 has been completed by a committee appointed by the manufacturers. The composite report of the survey was submitted to a conference of all wheelbarrow manufacturers at Chicago, Illinois, this month, and initial steps were taken in anticipation of a general conference of all interests.

Fiberglass Twine.

The compilation of Simplified Practice Recommendation No. 92, on this subject was mentioned in an earlier number of Commercial Standards Monthly. It is the purpose of the twine manufacturers to affix a tag to those of their products which conform with Simplified Practice Recommendation No. 92.

Metal Lath.

The manufacturers of metal lath have, since 1924 employed a metal tag to identify their products with Simplified Practice Recommendation No. 3, Metal Lath.
Tars and Labels.

Industry to an increasing degree is adopting tags and catalog references as a means of emphasizing the fact that there is extant an appropriate Simplified Practice Recommendation covering their products, the success of which is entirely dependent upon the whole-hearted cooperation of all concerned.

House Organs.

The house organs of several companies and several trade papers have given added impetus to the promulgation of a simplified program by using replicas of the acceptance blank in their respective publications, as well as running news items regarding the simplification. This has been carried out particularly with reference to Simplified Practice Recommendations No. 89, 92 and 98. The house organs and trade papers realizing that no standard of practice is of any value unless they are known to, and used by, the industry, have given much valuable support to the work, as stated.

3. USE OF SIMPLIFIED PRACTICE NEWS

Many inquiries have been received since our January 15. number was released, as to the propriety of reprinting items from "Commercial Standards Monthly" in trade papers and house organs. For the information of all who may be interested, we wish to state that the Department of Commerce approves of such practices. It will, however, be appreciated if credit is give to "The Commercial Standards Monthly" when reprints of original material is used.

4. STABILIZATION.

During the past year the War Department has made specific progress in the direction of simplification and stabilization. Officials of the department say that economy and efficiency have therefore been promoted. As a result of these efforts toward simplification, the allocated facilities have been reduced during the year from 20,000 to 14,000.

5. BALANCING

Saying that "Now is the time for reckoning" the "Mill Supplies" editorially comments on the need for elimination of failures of the past year. "The year 1928 is past", remarks the editorial, adding that "in most cases supply houses have taken inventory of stock. They know what their turnover was. They know what their total sales were. They know what their overhead was. They probably know generally what their net profits were. In the end this latter is the best concrete evidence of the success or failure of the year's efforts.

"If their net profits have been too small, they are probably studying the causes. They may find various factors, such as too great an overhead or too small a margin allowed by some manufacturers, contributed to this condition, but in some instances one of the prime causes will be found to be in the practice of going after volume sales with too little regard for profits whatever the causes. now is the time to eliminate them, for 1929 has all the earmarks of a year of prosperity". We suggest that industry give more thought, during 1929 to simplified practice.

6. THE GREAT ADVENTURE.

Many explanations are given for the apparently endless prosperity of these United States, says Earnest Elmo Calkins in the Magazine of Business but a principal cause, frequently overlooked, is the fact that American business leaders bring to their work an enthusiasm and
interest which are not caused or measured entirely by profits. The world is more interesting than it has ever been, dazzling opportunities break every day, and these men who are too interested to let go are making realities out of fairy tales and having, as President Roosevelt would have said, a perfectly working time doing it.

7. **POST OFFICE SAVES \$17,000.**

In his discussion of savings effected by the Post Office Department during the 1928 fiscal year, the Postmaster General said the department saved \$15,000 in the purchase of envelopes, due to the fact many of the varieties were consolidated to conform to commercial sizes as well as grades of paper. In 1920 there were more than 300 items listed. For the 1928 fiscal year there were but 80. He also said that a change in the design of mail bags had saved \$30,000 a year. The Postmaster General has asked Congress to standardize motor car equipment of the department as well as accumulate a reasonable reserve of such equipment in the postal service so that it will not be necessary to pay rentals for vehicles obtained under contract.

8. **MOTOR TRUCK SIMPLIFICATION.**

In a recent address delivered before the Society of Automotive Engineers in Washington, D. C., Mr. Joseph Bavett, an official of a prominent motor bus and truck company discuss the question "Is one's fleet Standardized?" He said that "many factors entered into the successful operation of trucks, one of which is the simplification and standardization of equipment. A diversified inventory loads the shops down, resulting in a rather expensive operation. Neither is a diversified line of equipment interchangeable, so that the large and expensive inventory must be retained, unless the line is simplified."

9. **BETTER MANAGEMENT.**

There are better profits through better management, as revealed through simplification, the elimination of waste, more highly efficient personnel, and a finer spirit of cooperation, the article appearing in MANAGEMENT REVIEW, in this article Mr. Hazlewood said that "the amazing spectacle of the youngest of nations in the vanguard of commercial progress pays silent tribute to the creative genius which has so distinguished American business.

"In the face of this remarkable development it is natural, but unfortunate, that the emphasis be placed upon size and volume, attributes which can never measure up as the ultimate aim of industry. In the fast-running current of these days, we need to take a new grip upon the practical realities of business, realizing that though we set up the greatest retail business, the largest factory, the biggest jobbing organization in the country and have net profits we have failed to be of permanent service to the public. Fortunately, we are now in the morning hours of a new era in scientific management, revealed through simplification, the elimination of waste, more highly efficient personnel, and a finer spirit of co-operation."

10. **SIMPLIFIED INVOICE LEAGUE.**

The Machinery Builders' Society reports through its Secretary, W. C. Fulmer, that the Simplified Invoice is coming into general use, according to "The Southwestern Purchasing Agent." Mr. Fulmer reports, "80 per cent of us now use, or intend to use, the Simplified Invoice Form" Results of Mr. Fulmer's survey among his members are:
Now Using the Simplified Invoice 52%
Will use when present forms are exhausted 28%
Not using, no reasons given 3%
No answer received 17%

"S. W. Flagg, Bureau of Methods, General Electric Company, reports that a canvass among 35 representative business associations shows 25 definitely interested in the Simplified
invoice and active in its promotion. Among the 25 the National Association of Wholesale
Druggists reports that nearly 90 per cent of its members are using the form. Another asso-
ciation reports that the form is used by 10 per cent of its members; but better results are
expected as time goes on."

The "Purchasing Agents" Association of Maine has forwarded reports from 75 per cent of
their members. Such a response is evidence of the keen interest of this group in promul-
gating the adoption and use of the Simplified Invoice Form.

The New England Purchasing Agents' Association now leads in the number of reports for-
warded by its members, with the Purchasing Agents Association of Los Angeles a close second.
What is your Association doing to promote the adoption and use of the Simplified invoice Form?

The Division of Simplified Practice invites all firms and associations to review their
incoming invoices over a period of ten (10) to fifteen (15) days, and then inform us as to the
number which conform in all respects to the Simplified Invoice Form. Invoices which only
partly conform to this standard should not be counted. Our intention is to publish these
reports in each issue of The Commercial Standards Monthly. Our purpose is to promote the
general adoption of this form, wherever possible and practicable in the movement for elimi-
nation of waste. For the current report of the league see Appendix.

COMMERCIAL STANDARDS.

I. J. Fairchild.

II. NEWS OF PROGRESS

Commercial Standards Service.

There are today many groups of manufactured articles the outward appearance of which is
so similar as to baffle any ready comparison of quality by the large majority of buyers with-
out resort to elaborate or expensive laboratory tests, and, as a natural consequence, these
goods are purchased on a price basis with some regard for outward appearance but with little
discrimination as to real quality except when disclosed after repeated and expensive expe-
rience. It is a simple matter to compare prices. The great question in the mind of the buyer
today is the question of quality, and every known article possessing unusual quality which
is now offered for sale appears to be enjoying a large and satisfactory business.

The great competition today is between industries and it is natural, therefore, if members
of a given industry desire to set up a minimum level for their commodity below which, quality
shall not be allowed to fall, in order that the public may buy with assurance and confidence
and that the commodity as a whole shall retain the good will and command the respect of the
purchaser. This can be done quick effectively through the assistance of the Commercial
Standards Service.
Regain of Mercerized Cotton Yarns.

A general conference of representative manufacturers, mercerizers, general interests, and users, held in Washington, D. C., January 15, adopted a Recommended Commercial Standard for regain of Mercerized Cotton Yarns to the effect that mercerized yarns having a regain below 7 1/2% or above 9 1/2% shall be adjusted by the seller or buyer, as the case may be, on the regain basis of 8 1/2%. Such yarns with a regain between 7 1/2% and 9 1/2% shall not call for adjustments between buyer and seller. A regain of 8 1/2% is equivalent to 7.83% moisture content.

So many inquiries have been received for an explanation of the term "regain" that it may be well to insert the definition adopted by the conference which is as follows:

**Regain** - The difference between the weight of the material, as is, (a) and the weight in a bone dry condition, (b) expressed as a percentage of the bone dry weight.

The conference set July 1, 1929 as the date upon which the recommendation is to become effective and a standing committee was appointed to consider the recommendation annually for revision in order that it may be kept continually in accord with current practice and the advance in the art of conditioning mercerized yarns. The recommendation has been submitted to all interests for written approval. The following quotation from a letter dated January 23 from the National Association of Hosiery and Underwear Manufacturers is quite encouraging, having been written subsequent to the conference; "This association is highly pleased with the work of your department in connection with this matter."

Domestic and Industrial Fuel Oils.

On January 9, in New York City a general conference of oil refiners, distributors and consumers, together with the manufacturers of oil burning equipment, voted their approval of the Proposed Commercial Standard for Industrial and Domestic Fuel Oils, after some slight modifications had been discussed and accepted. The conference was well represented by all interests of the industry and a balanced committee was appointed to consider the need of changes after the specifications are in actual use for one year from the effective date July 1, 1929.

The Recommended Commercial Standard sets up specific limits for viscosity, distillation range, pour point, flash point, water and sediment as the recognized criteria for measuring the quality of these fuel oils. It is expected that much of the misunderstanding previously attending the purchase of fuel oils will be eliminated, since refiners, distributors, and consumers will no longer have to rely on the loose designations of gravity and color heretofore largely used as a basis for sale of domestic and industrial fuel oils.

Wall Paper.

The Wall Paper Manufacturers Association have requested the assistance of the Bureau of Standards in the establishment of definite grades and quality for wall paper as a means for protecting the purchaser and the reputable producer. The association particularly desires to set up criteria for measuring quality of the stock and the color fastness of the finished paper. A preliminary conference held in New York City on January 24 appointed a committee to draft tentative specifications for the various grades.
12. "SALVAGE"

Waste reclamation has become a big business. It has its own magazine "Salvage", its own extensive directory of dealers; it has a dealers' association, and recently a book of standard specifications for the grading of waste has been published. These specifications should prove helpful to the manufacturer who wishes to dispose of factory wastes to the best advantage.

13. Procurement Specifications.

A first step in planning for the procurement of the many thousands of items on the procurement list of the army, is the preparation of specifications, said the Assistant Secretary of War in his annual report for 1928, in discussing the war-time procurement work of his office. Standard commercial specifications are used where applicable. In the development of specifications for non-commercial items, care is exercised to assure that the articles can be manufactured in quantity and that no unnecessary construction difficulties are involved. He further added that "obviously, specifications unsupported by an adequate inspection system can not assure us of obtaining the most suitable article for our purpose."

14. STANDARD EQUIPMENT.

Excellent progress has been made, by the Committee on Standardization of the American Petroleum Institute, in the formulation and adoption of specifications covering practically every important item or class of equipment used in the drilling and producing of oil. According to Mr. W. C. Skelly of the Skelly Oil Company these specifications and standards will prove of no value unless the oil companies put them into use. In a recent article by the editor of "Commercial Standards Monthly" which appeared in many of the trade papers, he said, "The oil industry has done more toward simplification of its supplies than any other industry. The variety of sizes of steel barrels and drums have been reduced under a simplified practice recommendation from 66 to 24, with resulting increased inter-changeability of items, reduced stocks, and elimination of time lost in delivery, and increased second-hand value."

MARINE STANDARDS

A. V. Bouilloud

15. COMMITTEE NEWS

Digest of principal activities of American Marine Standards Committee during the month of January are as follows:

Report covering the last quarter of 1928 was issued by the Secretary, showing the status of the organization and work at the close of 1928 to be as follows:

Membership.................................................. 353
Standards promulgated................................... 87

A list of printed publications covering the standards promulgated to date: Also alphabetical and classified indexes to the publications and standards were issued to all members and participants in technical activities.

Preliminary drafts of proposed standard specification for lifeboat disengaging apparatus and of proposed standard general instructions for the rat proofing of ships were submitted to the membership and others interested for critical comment. The following preliminary drafts of proposed standards were submitted to subject and technical committees, viz:

Alternative types of mooring pipes of sizes corresponding to standard sizes of mooring bitts already adopted. Metal standee and stateroom berths of various types. Care and operation of oil-burning apparatus and handling of fuel oil on ships. Manuscripts for printed publications of the AKSC series containing promulgated standards were completed and issued for printing as follows:

AKSC-55 - Ship Propellers - Specifications for built-up propellers; templates for propeller blade flanges and bolt holes; and propellers cast in one piece. AKSC-56 - Ship Scupper and Drains comprising standards for 4" weather deck scuppers; deck drains, plain type and trip type; and interchangeable alternative types of deck drain strainers.

The Executive Board met in Washington on January 28, but transacted only a limited amount of business owing to unavoidable absence of members especially interested in matters presented. It was concluded to adjourn the meeting to a more convenient date and place for all concerned. This was agreed upon as February 8, in New York. Announcement has been issued accordingly. A combined report of the proceedings of both meetings will be issued later.

A meeting of the membership and participants in technical activities took place in Washington on January 29 at which the chairman reviewed the progress made by the organization and a number of subjects affecting the activities of the committee were discussed. Interest centered upon the prospective organization of a technical committee on port facilities; the extent to which standards are being used; and the prospects for promulgating additional standards.

A resolution proposed by the Executive Board at the meeting on the 28th was
adopted at the meeting on the 29th, to the effect that regular annual meetings of the membership and participants in technical activities heretofore held in Washington during January of each year, are hereafter to be abandoned in view of the fact that the organization is now functioning along definite lines and the Secretary's office maintains constant contact with all concerned.


A splendid editorial tribute is paid the work of the American Marine Standards Committee by "The Marine Journal". In his editorial the writer said "if any one outstanding feature is characteristic of American progress in the industrial world, that feature is standardization. Therefore the best wishes of every one who prays for the day to dawn, when America shall be able to sell ships in competition with the shipyards of the rest of the world should go out to the American Marine Standards Committee."

DOMESTIC COMMERCE

17. Textile Publications Listed.

The Textile Division of the Bureau of Foreign and Domestic Commerce has just brought up to date its list of Government publications relating to textiles, originally issued in July, 1927. The work of the Bureaus whose publications are cited is briefly described, and suggestions on how to obtain public documents are included. The list is divided into the following sections: General Publications; Raw Cotton; Cotton Manufactures, Except Knit Goods and Wearing Apparel; Wool and Hair and Manufactures Thereof, Except Knit Goods, Wearing Apparel and Floor Covering; Silk and Rayon; Wearing Apparel. Other Than Knit Goods; Knit Goods; Miscellaneous Fibers and Manufactures Thereof; Floor Coverings; and Dry Cleaning and Laundering Publications. The pamphlet is available for free distribution and may be obtained upon request from the Textile Division, Bureau of Foreign and Domestic Commerce.

18. Trade-In Furniture Plan.

Furniture houses on both the East and West Coasts have built up a trade in, trade-in furniture analogous to the practice of automobile dealers. A customer wishing to buy a new dining-room or bed-room suite turns in the used suite, the new purchase being credited with an allowance based on a fair valuation satisfactory to the purchaser. The furniture trade-in is then repaired and refinished and sold in a separate store and in a separate building, usually operated as an annex of the main store.

The plan is described in the "Retailer and the Consumer in New England" recently issued by the Domestic Commerce Division, which may be obtained for 10 cents a copy from the Superintendent of Documents, Government Printing Office.


The International Magazine Company, Inc., recently made a study of the market for convenience products such as irons, toasters, grills, percolators, waffle-irons, heating pads, and fans, and of labor-saving devices like electric washers, vacuum cleaners, ironers, and dish-washers. Location of electrically served communities, the buying power of families in those places, the degree of their desire to purchase such products, and the accessibility of retail stores are mentioned as important factors in concentrating sales efforts for electrical appliances. It is pointed out that the higher the retail price of the product the more important the larger market centers become because of the relation of family buying power to the price range of the product and the reduced number of medium to high incomes in smaller places.
The percentage of "saturation" of electrical appliances, based on 17,596,390 wired homes, has been worked out for the various electrical appliances as follows: Irons 87; vacuum cleaners, 39; clothes washers, 28; toasters, 26; room heaters, 15; percolators, 10; hot plates and grills, 9; heating pads, 8; waffle irons, 5; and floor polishers 2. Concentration of 55 per cent of the nation's total wired homes in 640 cities designated as "Principal Trading Centers of the United States" is pointed out. In these centers are 69 per cent of all family incomes of $5,000 and over, which offer the largest market for all "Medium to High" priced electrical appliances. The 2,944 "Subordinate Urban Places," with a population of 2,500 and over, have 21 per cent of the total wired homes of the country. The rural market, although it comprises 45 per cent of the population, is third in importance because comparatively few rural families are served with electricity and the "Medium to High" income group of rural families is very small. The concentration of sales operations, including advertising, in the light of these facts, is recommended as logical when the product is thus weighed against the need and the purchasing power of the consumer.

20. **Advantages of Packaged Merchandise.**

Aside from the generally recognized advantages of packaged merchandise to the middlemen and retailer, there are distinct advantages to the manufacturer, some of which are listed in "Packages That Sell by R. B. Franken and C. B. Larrabee. Among these are: (1) Advertising value, making possible the use of trade-marks and stimulation of consumer demand (2) preventing substitution; (3) ease of handling, storing, and transporting, protecting goods against breakage, spoilage, spillage, evaporation, and pilferage; (4) assurance that products reach the ultimate consumer in the condition in which they leave the factory; (5) enabling standardization of quality and quantity of the product; (6) making possible the sale in small units of many products heretofore sold only in bulk; (7) fostering large-scale concentration, simplification standardization, and specialization; (8) educational possibilities of package inserts in showing new uses for products; and (9) facilitating price maintenance.

21. **Bill of Lading.**

"Uniform Through Export Bill of Lading" is the title of Trade in information Bulletin No. 593, recently issued by the Bureau of Foreign and Domestic Commerce of the U. S. Department of Commerce. It is written by A. Lane Cricher, Assistant Chief, Transportation Division of the department, to answer the questions raised concerning the use and the practicability of the uniform through export bill of Lading. Copies may be secured from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 10 cents a copy.

**BUILDING AND HOUSING**

J. F. TayloW

27. **Plumbing Legislation.**

Considerable activity in the preparation of state plumbing legislation at the present time has come to the attention of the Division of Building and Housing. Requests have been received from health departments in a number of states for the recommended minimum requirements for plumbing prepared by the Sub-committee on Plumbing of the Department of Commerce Building Code Committee. These recommendations, based largely on the results of tests at the Bureau of Standards, have already been used as the basis for plumbing requirements in eight states, as well as in many cities.

Research is no longer considered a business philanthropy. It is no longer a side issue or hobby to be supported or neglected in the degree that money is donated by its friends. On the contrary, as recently stated by Irving Langmuir: "The leaders of industries are frequently conscious of the need of improvement in their processes and even of the need of new discoveries or inventions to extend their activities." Research is the modern tool by which to work out commercial success in any industry.

But beyond the commercial incentive to survive under highly competitive conditions there are broader aspects of research that affect business directly. Heretofore the world has been built and operated largely through the wasteful use of raw natural resources. Many of these have not been reduced in volume, but despite this, man made products derived from researches have supplied the public demand with cheaper and better products than those made from the original materials.

Under the spur of a diminished supply, research comes into being to replace old materials with new, and business today realizes that only through scientific research can it remain prosperous under modern conditions. No organization economies can replace research as a direct method for maintaining business success.


Establishment by the Textile Bag Manufacturers Association of a research department to develop new kinds of textile bags and to investigate the possibilities of new uses, is reported in the "Daily News Record of December 19." Several testing machines have been installed to secure greater efficiency in the manufacture of cotton and burlap bags. Drop tests are also planned. This step follows the Association's recent advertising drive to create a greater demand for textile bags.

25. Research and Advertising.

According to Malcolm Muir, President of the McGraw-Hill Publishing Co., "something more than accident has created that great national wealth which the world calls American prosperity; something more than mere wishing for riches has made the past decade since the Armistice so fruitful in terms of re-created industrial wealth and supremacy. One of these "somethings" has been the partnership between research and advertising. Research today is a field which meets with every encouragement — spurred on by the knowledge that the lag between discovery in the laboratory and actual sale of the product is being rapidly reduced to a minimum. Advertising today is a mighty sales machine, a great propelling force for industry in its movement forward to the new objectives and the larger markets. It is the close liaison and the spirit of understanding between the two which has contributed so tremendously to our national wealth and well being and given us commercial pre-eminence."


Expressing the belief that "the bigger viewpoint is necessary to proper business progress," Fred Counterman, recently wrote on this subject in MILL SUPPLIES, as follows: "Chained to the present with tiny links of petty detail and monotonous routine, many business minds are denied the opportunity of far-distant vision, while their futile strivings serve merely
to ground them more deeply in the rut they have trudged for years. With their eyes resting on the simplest and nearest problems, vision of opportunities that reach out ahead of them is at best blurred and clouded. We easily become habituated to the narrow limits of our own little courtyard, and lose all desire to climb to the tower and look beyond. The executive who thinks of his business as jogging along through the years at the same pace it has been following, while he satisfies himself with the hope that competition will let him alone, will never attain the heights. Failing to visualize future potentialities, he is incapable of rising to them. The time to get the bigger vision is now before we become so shortsighted we can not see beyond our office walls."

27. Hidden Treasure.

"Search for hidden treasure in the olden days of pirate bold and buccaneer held no more thrilling variations than the modern search for that elusive point of profitable volume," says Harry R. Tesdal, Professor of Marketing, Harvard University.

Writing on this subject in THE MAGAZINE OF BUSINESS, under the title of "Less Business More Profit", he said, "For every company under given conditions there is a volume of sales which will furnish the most satisfactory profit goal. It is large enough to furnish gross margin, but not too large to make expense excessive. This mythical point can be approximated by concentrating on the most profitable customers by the most profitable selling methods and protecting gross margin from being annihilated by short sighted price policies. In developing these ideas, the manufacturer needs to understand something of the conception of the "Natural" market, the market whose location and size is such that it yields the maximum net profit. Business will be better, costs of distribution will be reduced, the public will be better served when business discards the assumption that a cure for, "profitless prosperity", is greater sales volume."

28. What Does the Buyer Want?

In a discussion of "What Does the Buyer Want?" in PRINTERS' INK WEEKLY G. A. Nichols said that "putting the production cart before the research has disastrous effects, even when tied to the hitching post of high-pressure advertising. This fact has been proved time and again, and yet there are manufacturers who still persist in arbitrarily flooding the market with unwanted merchandise. The buyer is the one first to be considered, his needs, desires and habits must be the guiding factors. The only way to find out what he wants is to go where he is and study him. But this the average manufacturer seems curiously loath to do. Such lack of respect for the ultimate consumer is highly dangerous, for general advertising has taught him much. In addition, his life is a never ending struggle to stretch his income to its maximum buying power, which has sharpened his wits and made him price educated and advertising conscious. Preliminary diagnoses of market trends and individual needs would reduce selling costs and establish profits on a healthier basis."

29. Industrial Tool.

Under the heading of "The Institute Becomes an Important Industrial Tool" in ADVERTISING AND SELLING, J. George Frederick, remarks that "in the days when large industrial groups gathered together only socially and when prohibition of discussion of business was the accepted tradition, competitors in the same line of business had to be hypnotized before they would consent to place their feet under the same table. It has taken 20 years to bring together sufficient background, activity, and intelligent cooperation to make possible an institute in an industry, but today it is one of the most effective tools available for unifying industrial action and advancing the interests of an industry as a whole. The institute as a method is no panacea, contains no magic in itself. It is rather an aggressive
organization with varied aims, the chie of which lie in the direction of widening consumption through advertising, and curing some of the basic ills of marketing and distribution.


The 1928 Edition of "Market Research Agencies," just issued by the Domestic Commerce Division, is the most complete market research source book yet compiled. The purpose of the publication is to present a record of market research investigations—completed, current, and contemplated—with the hope of curtailing duplication of research and thereby eliminate waste.

An innovation in this third edition is a section on publishers of trade directories of whom 79 are given besides the 22 publishers whose books bearing on market research are listed. Increased attention has been given this year to the marketing of producers' goods and services. Direct contact with State government bureaus, educational institutions, and agricultural experiment stations has made the references to those organizations more complete and more accurate than heretofore. As in the 1927 edition, the section on commercial organizations includes the market research activities of advertising agencies, business services, chambers of commerce, cooperative marketing associations, individual businesses, magazines, newspapers, and trade associations.

"Market Research Agencies" is available for 15 cents a copy from the Superintendent of Documents, Government Printing Office, or from any District Office.

**UTILIZATION OF WASTE.**


With the demand for economy increasingly a factor in the onrush of industry little is wasted nowadays. Profitable businesses are built upon by-products and materials that once were thrown into the discard. No longer are sawdust, waste oils, scrap iron and miscellaneous factory debris cast aside to be forgotten. Junk dealing and rag picking are highly organized businesses. According to a recent governmental report, Spain, one of the leading markets for American rubber, is importing old tires, discarded rubber shoes and scrap and reclaimed rubber of all descriptions to the extent of more than $1,000,000 yearly. Pneumatic casings are transformed into rubber soles that the peasants of the hills may be durably shod for rough going; old cushion tires are converted into rubber heels, while worn out tubes go through the mills to emerge in the form of toy balloons, garters, belts and whatnot. They say in the stockyards that everything is used but the pig's squeal. It is not far from being true.

**ELIMINATION OF WASTE.**

32. Look Back—Ahead.

As day after day projects itself on the screen of life, there is placed together a film of untold wealth and ever-widening horizons, writes John Hays Hammond in "Nation's Business" on the subject "A Look Back and Ahead." Mr. Hammond said that it is to avoid the danger of becoming blase and forgetful of our responsibilities and obligations in the fact of such prosperity that frequent and searching introspection is more and more prescribed. The most superficial of these surveys will show real wages to be 50 per cent higher than before the war, output incredibly increased through the advent of labor-saving machinery, education thoroughly democratized, and living standards above anything dreamed possible.
One of the most hopeful signs of the times is a higher standard of business ethics - the recognition by business of its obligations to render public service to its customers. Thus, all about us are evidences of recent accomplishment, of unexampled fruition. The United States is coming into its own, economically, politically, socially, spiritually. It is the greatest going concern of all the ages and is today, from the standpoint of the past, at its best. There is every reasonable expectation, however, that tomorrow will be greater than today, that America will continue her course to even greater prosperity and finer accomplishment.

33. Reduction of Waste.

Through waste reduction may seem to come like a threadbare subject it is one that is getting new attention now and from different angles, says "Packages" editorially on the subject of "Waste Reduction." Also, as business men come to the end of the year season, review past doings and plan for better times the next year, there will be an earnest centering of attention on lowering costs and improving efficiency through waste reduction.

"Packages" emphasizes the point that this doesn't mean merely reducing waste and utilizing waste of raw material in the factories. That, of course, is part of the program, and has been the outstanding part in the past. There are many other forms of waste, however, coming in for attention now which have been overlooked in the past. These include wasteful efforts in selling, wasteful methods in accounting and in handling of material through the factory, and things of that kind. It even includes waste incident to cross hauling and unnecessary shipping.

Waste effort in selling is getting its share of attention now, too. Also it is being found that there is woeful waste comes through too much duplication of sales effort by individual manufacturers. And there will follow in time cooperative or group selling to eliminate some of the waste and trim some of the cost. It is not only coming to the wooden package industry but is already being featured in many other industrial lines where, it is being pointed out, that there is plenty of competition between the offerings of different products without so much competition in the selling game between producers of similar products. So in the drive for waste reduction and plans for the new year, it is a safe prophecy that a goodly share of attention will be centered upon reducing waste incident to selling the product.

34. Urges Waste Reduction.

The National Tire Dealers' Association and manufacturers have got to plan out a system of distribution that will eliminate unnecessary waste, recently declared Frederic C. Hood, President of the Hood Rubber Co. He said that one of the industry's wastes is in the depreciation of stocks, both through price declines and because of obsolete sizes. Commenting on Mr. Hood's remarks, "Tires" said editorially he had struck at the crux of the present situation in the tire business when he urged reduction in wastes of distribution and other wastes by dealer and manufacturer.

35. Booklet on Lumber.

The National Committee on Wood Utilization announces the release of the distributors' edition of the bulletin "Seasoning, Handling, and Care of Lumber". Copies at 20 cents each, may be secured from the Superintendent of Documents, Government Printing Office, Washington, D. C.
36. **New Publications.**


37. **Appendix.**

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