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April, 1943 bran A Monthly Summary of Economic and Business Conditions in Texas By the Staff of the Bureau of Business Research, The University of Texas MAY - 3 1943 F. A. Buechel, Editor. Texas • INDEXES OF BUILDING PERMITS IN TEXAS-1929-1942 • • 1929 = 100% • 100 NOTE BASED ON REPORTS FROM CHAMBERS OF COMMERCE IN A REPRESENTATIVE GROUP OF 90 TEXAS CITIES ... 80 70 60 2 50 40 1 30 20 10 0 1944 1936 1937 1938 193 1941 1942 1943 1030 1020 .. THE UNIVERSITY OF TEXAS BUSINESS RESEARCH .. BUREAU OF Entered as second class matter on May 7, 1928, at the post office at Austin, Texas, under Act of August 24, 1912

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Business Review and Prospect

Since President Roosevelt's timely anti-inflation pronouncement there has been considerable dampening of popular inflationary sentiment, but the forces which are making for inflation are still as potent as ever. Not until adequate tax measures have been enacted and a systematic procedure for the purchase of government bonds has been put into effect can ceilings on prices of goods be established, wages of labor be stabilized, or effective rationing be maintained. It would be extremcly fortunate if during this pause in inflationary sentiment governmental action were promptly taken to drain off, in the form of taxes and loans to the government a sufficient proportion of the rapidly increasing purchasing power of millions of workers in war plants, farms and such other groups as have had a sharp increase in income as a result of war activity. If such action is not taken soon, the next surge of inflationary sentiment will carry wages and prices to still higher levels and the upward spiral will gain additional momentum, thus adding still further to the problems of inflationary control.

War expenditures rose sharply during March to approximately seven and a half billion dollars, or at an annual rate of ninety billion dollars. Since the national war production plant is still some distance from capacity operation, further substantial monthly increases in expenditures for production of war materials may definitely be expected. It is highly important for all citizens of this country that this increase in dollar expenditure for war production shall reflect a corresponding increase in war materials and that it shall not merely reflect rising prices.

Recent estimates of spendable income for the country in 1943 are even higher than at the beginning of the year, and total national income is now expected to approximate 140 billion dollars. This figure compares with approximately. 115 billion dollars in 1942, the previous record year, and 80 billion dollars in 1929, the record up to that time. The quantity of civilian goods available for consumption this year is not expected to be as great as it was in 1942 when approximately 80 billion dollars were spent for this purpose, although the number of dollars expended may equal or even exceed this amount because of the rising trend of prices. The 60 billion dollars representing the margin between spendable income and the expected value of available civilian goods during the current year (at approximately present prices) must therefore be siphoned away as taxes and as bond purchases, if the pressure on prices and wages is to be kept under control. It cannot be overemphasized that a rigorous tax and bond purchasing program levied now on a broad base of mass purchasing power will do more than anything else to effect. price stability during the war and to ameliorate postwar economic dislocations.

TEXAS BUSINESS

The composite index of business activity in Texas, adjusted for seasonal variation, declined nearly nine points from February to March. Four of the components—employment, pay rolls, runs of crude oil to stills, and electric power consumption—showed gains; the remaining two components—miscellaneous freight carloadings and department store sales—declined. Compared with a year ago, however, the March index was up nearly forty-four points, or thirty-two per cent.

MARCH INDEXES OF BUSINESS ACTIVITY IN TEXAS

(Average month of 1930=100%)

| | March, 1943 | March, 1942 | Feb., 1943 |
|-----------------------------------|----------------|----------------|---------------|
| Employment | 141.1 | 113.1 | 139.3 |
| Pay Rolls | 218.3 | 150.2 | 210.9 |
| Miscellaneous Freight Carloadings | | | |
| (Southwest District) | 121.5 | 110.7 | 142.2 |
| Runs of Crude Oil to Stills | 198.6 | 202.0^{*} | 189.6 |
| Department Store Sales | 160.1 | 120.5 | 226.7 |
| Electric Power Consumption | 267.4 | 168.9* | 265.3 |
| COMPOSITE | 179,2 | 135.4* | 187.9 |

*Revised.

A word of explanation should be made concerning the sharp drop in the two factors which caused the decline in the composite index from February to March-department store sales and miscellaneous freight carloadings. Normally, there is a gain in department store sales from February to March of approximately twentyfive per cent; whereas, this year there was a substantial decline in sales during this period. This situation was the result of abnormally large department store sales in February, and was not the result of unsatisfactory sales in March. As evidence of this fact, March department and apparel store sales were thirty three per cent greater than were sales in March, 1942. Moreover, the favorable comparison with retail trade in March last year was especially noteworthy because a year ago Easter fell early in April and this fact had a stimulating influence on department store sales in March last year. This year Easter came near the end of April, and presumably Easter buying will be reflected in April rather than in March sales in contrast with a year ago.

Similarly, there normally is a sharp seasonal increase in miscellaneous freight carloadings from February to March (eighteen per cent), but this year the increase in the number of cars of miscellaneous freight loaded was only about one per cent, causing a decline in the index of approximately fifteen per cent. The seasonal changes in the number of cars loaded are becoming less and less marked as the railroads approach closer to capacity operations.

For Other Texas Data, See Statistical Tables at the End of this Publication

FARM CASH INCOME

Cash income from agriculture in Texas during March totalled more than 61 million dollars, compared with 36 million dollars during March, 1942, an increase of seventy per cent. The aggregate total for the first three months was 169 million dollars, or a gain of fifty-two per cent over the 111 million dollars for the corresponding period last year.

Average March cash income for Texas during the fiveyear base period (1928–1932) was approximately 18 million dollars. Thus, the February index of farm cash income for the State during March was 342.3, which represents a gain of 242.3 per cent over the average cash income in March during the five-year period from 1928 to 1932, inclusive.

INDEXES OF FARM CASH INCOME IN TEXAS

(Average Month of 1928-1932=100%)

| | March. | Feb | March. | Cumulative Income January to Anril (\$000) | | | |
|-------|--------|-------|--------|---|----------|--|--|
| | 1943 | 1943 | 1942 | 1943 | 1942 | | |
| 1–N | 359.7 | 243.7 | 125.4 | \$24,192 | \$11,492 | | |
| 1-S | 806.4 | 468.2 | 437.2 | 19,595 | 11,660 | | |
| 2 | 311,6 | 319.0 | 216.6 | 17,022 | 11,339 | | |
| 3 | 244.2 | 288.6 | 186.3 | 6,629 | 4,750 | | |
| 4 | 235.4 | 195.2 | 218.1 | 19,164 | 19,525 | | |
| 5 | 204.5 | 223.8 | 111.2 | 6,829 | 3.602 | | |
| 6 | 497.5 | 426.3 | 233.6 | 12,002 | 7,244 | | |
| 7 | 208.7 | 336.3 | 168.6 | 7,455 | 5.321 | | |
| 8 | 372.2 | 293.8 | 193.2 | 13,344 | 8.153 | | |
| 9 | 206.5 | 284.5 | 230.8 | 15,022 | 12.446 | | |
| 10 | 467.3 | 334.1 | 181.3 | 5,786 | 2,582 | | |
| 10A | 502,7 | 445.1 | 247.1 | 22,458 | 13,066 | | |
| STATE | 342.2 | 306.4 | 200.8 | 169,498 | 111,180 | | |

Note: Farm cash income as computed by this Bureau understates actual farm cash income by from 6 to 10 per cent. This situation results from the fact that means of securing complete local marketings, especially by truck, have not yet been fully developed. In addition, means have not yet been developed for computing cash income from all agricultural specialities of local importance in scattered areas throughout the State. This situation, however, does not impair the accuracy of the *indexes* to any appreciable extent.

Worthy of special note is the fact that nearly onethird of the total state farm cash income was received in the Texas Panhandle Area (Districts 1-N and 1-S), and nearly three-fourths of this huge income was derived from livestock—cattle, calves, hogs, and sheep. Both increased marketings and the high prices of beef animals contributed to the favorable income figure. The average price of beef cattle during March varied from more than one hundred dollars per head in the High Plains to less than fifty dollars per head in East Texas and the coastal area. This wide variation in average price per head as between East and West Texas is the result of differences in the type and average quality of the cattle.

In West and Northwest Texas, not only has the breeding of fine strains of beef cattle been developed to a high degree, but most of the cattle feeding of the State is carried on there. In East Texas and the coastal area, on the other hand, dairy breeds constitute a large proportion of the total, and these cattle not only are smaller than the beef type, but are usually not marketed for conversion into beef until their efficiency in milk production begins to decline. It should be pointed out, however, that there are many excellent herds of the beef type of cattle in scattered areas throughout East Texas wherever local conditions are favorable for this type of livestock enterprise. This development has been particularly marked in recent years as a result of the Government's conservation program.

Other sources of income which show highly favorable year-to-year comparisons are milk and truck crops. Income from milk during March was forty per cent greater, and income from fruits and vegetables was more than double that of March, 1942.

It is improbable that the phenomenal year-to-year increase in Texas farm cash income which prevailed during the first quarter of the year will be fully maintained, but if the forthcoming crops approach normal, which at present is a reasonable expectation, farm cash income in this state in 1943 promises to be well above the record year of 1942.

F. A. BUECHEL

Wealth-Producing Industries in Texas

Broadly speaking, Texas has four major groups of wealth-producing industries which may be considered as basic ones; these are agriculture and range livestock, the timber-using enterprises, oil and gas production and refining, and the chemical and other industries based on non-metallic resources. Overlappings between these groups occur but for the sake of perspective and emphasis, this grouping, based upon the types of natural resources concerned, has sufficient advantages in its favor to justify its application in analyses of Texas economy. There are, of course, other wealth-producing industries in Texas, but they are dependent, directly or indirectly, upon one or more of these four major groups.

Economic analyses of Texas' wealth-producing industries demand considerably more than mere conventional treatment, whether considered from the standpoint of past trends, current tendencies, or future potentialities. This fact should be clearly apparent from the great number of vital problems that now confront us on every hand as a consequence of the war effort. These problems concerning our basic wealth-producing industries not only will not solve themselves but they will be even more insistent in the post-war period. That the war is inevitably forcing a new attitude toward natural resources and the industries built upon them is, of course, obvious.

More than merely a new attitude, however, is required if we are to meet in somewhat adequate manner the vast complex of the post-war problems that inevitably will challenge the widest understanding and the achievements of the most profound technology that will be available. The significant changes in institutional approaches to these problems will obviously accentuate the importance of a fuller understanding of what are the foundations of economic life in the 20th century.

Recognition of the immensity and the essential nature of these institutional problems has been evolving at an accelerated pace during the past two or three decades, as can clearly be seen by an examination of numerous comparative studies dealing with larger aspects of human problems and especially of the statements of outstanding world leaders. While many of these pronouncements might be noted, a few excerpts have been chosen from a brief paper written by General Jan Christian Smuts in the middle 1930's. It is perhaps worthwhile to note that Jan Christian Smuts, now Premier of South Africa, is a product of the frontier as were Jefferson and Lincoln and Sam Houston in our own country-but the South African frontier has extended well into the 20th century. Of the book to which General Smuts' paper was the Introduction, he wrote:

It is an intriguing effort, and we must all welcome this scientific approach to the problems of our human advance. More and more it is being felt that what is wanted is more science in the consideration of human problems; the lack of science in our affairs is considered as one of the main reasons why our human world is becoming more and more chaotic, while science in her domain is making a triumphal progress.

General Smuts summarizes his own philosophy as follows:

The world is not a chaos, a chance selection of items and fragments. It is a closely interwoven system of patterns. What we in our human way call plan and design is present everywhere. This is not to be understood as naïve antbropomorphism. Our most painstaking effort at understanding the world discloses certain dominant features in it—rhythm, regularity, inter-connexion, and linkings up, an interplay of active relationships which is creative of structures, forms, patterns. Such is reality—a vast Pattern of patterns.

Of institutional concepts, and of the dangers of narrow provincial philosophies or of one-sided views, General Smuts continues:

At any rate, necessity is laid on us, and we dare not sit still in a world today [1935] fuller of dangers for our race than ever before. We must move on and science appears to be the royal road of advance. We cannot accept at their face value the philosophical speculations of a Spengler—that civilization is an organism which grows and decays of its own inner unalterable laws, and that nothing can arrest the disappearance of our own civilization. Nor can we accept—in the face of all that genetics has taught us—that environment is all, and the organism merely a creature of it. Somewhere between lies the truth we are after, between the one-sided environment and organismic views.

TEXAS INDUSTRIES IN THE NATIONAL PICTURE

To deal adequately with the basic wealth-producing industries of Texas, whether of the important part they are playing in the present crisis, or of the part they will play in the post-war years to come, requires a sure and comparative knowledge of the industries involved, of the inherent properties of the natural resources upon which they are built, of the scientific and historical background of the evolving technology that is being applied to a more effective utilization of these resources; added to this there must be wide understanding of the workings of the complex social and economic institutional forces concerned. No longer can these problems be considered as merely local ones. The scope of Texas' natural resources and the volume and variety of materials these resources can supply from the standpoint of national markets insure a national interest in the potentialities no less than in the actualities of Texas industries.

The impact of the war is forcing a fuller understanding of our agriculture; it is forcing an appraisal of this fundamental industry not only as a national economic problem but also as a social problem of vast magnitude. Facts, not abstract theories, confront American agriculture at large, and the same thing applies in no uncertain terms to Texas agriculture and livestock production.

OIL AND CHEMICAL INDUSTRIES IN TEXAS

In Texas, however, two industries stand out in a strategic sense in the war effort; that these two industries will occupy a still more important position in post-war adjustments can hardly be questioned.

These, the oil industry (together with natural gas), which has long been firmly established in Texas, and the chemical industry, which was just getting a start in Texas in the middle 30's, can scarcely be over-emphasized in any appraisal of Texas economy. Both the oil industry and the chemical industry are basic enterprises that occupy a strategic economic sector on the pioneer industrial front that has extended itself into Texas and the greater Southwest, in ever larger proportions since 1900 and at an accelerating pace particularly since the days of World War I. And now these two industries are being tied together by the indissoluble bonds of today's science and technology—and more than upon any other sector of modern economy it is upon the progressive advance of these industries that the economic and social future of Texas depends.

The oil industry is peculiarly an American industry, not only because of the preponderant place the United States has had in its development but also in the application of American methods of production, transportation, and refining transferred almost bodily to the various oil producing regions of the rest of the world.

The sweep of the oil industry across the American continent during the past three-quarters of a century comprised one of the magnificent spectacles of the times; its transference to other countries has been, from the standpoint of world economics, only less striking than its sweep across the United States.

But the heydays in the development of the oil industry along the older lines are rapidly becoming history. And this war is using up those oil resources that have transportation outlets at a prodigious rate. One of the truly momentous problems of the post-war period will necessarily be concerned with the world's oil resources. Owing to the nature of military operations, oil resources are universally coming to be recognized as vital to the prosecution of the war, and they will become even more vital ere the conflict is ended.

The oil industry is also reaching a turning point in regard to revolutionary methods that are now being applied from the newer knowledge of the chemistry of oil. The post-war oil industry of this and other countries will necessarily be bound up with the fortunes of the chemical industry.

The oil industry will turn more and more to chemistry and to the chemical industry in order to get technologic assistance in making its reserves last longer and go farther—that is, to give its products at once a higher level of usefulness and a wider sphere of application. Already, the accomplishments in large-scale synthesis of converting petroleum and natural gas raw materials into aviation gasoline, explosives, synthetic rubber intermediates, plastics, alcohols, and so on are little short of revolutionary. On the one hand, it is a matter of record that the oil industry has absorbed large sectors of the chemical industry, just as the chemical industry, on the other hand, has penetrated farther and farther into the oil industry. This trend has been in evidence for several years; its rapid evolution has come with the quickening tempo necessitated by the grim requirements of war—of a war in which the whole fabric of civilization is endangered to an extent perhaps not fully realized as yet.

The almost all-inclusive sway from the standpoint of industrial penetration of the chemical industry is also a matter of record; from the point of view of its historical sweep, as concerns the development of the various phases of its history as an industry, it may be emphasized that the beginnings of a chemical revolution antedated by a century the inception of the Industrial Revolution which came in the middle of the 18th century.

An historical perspective of the major shifts and larger developments in the various stages of the evolving chemical industry is essential to a wider understanding of chemical achievements in modern industry. The chemical industry began as, and for a long time continued to be, an industry accessory to other industries. It was not until after 1870 that the chemical industry became a producer of goods in large amounts, especially of dyes, which appeared as such in the consumer product; but the chemical production of dyes, although a marvel of applied science, is also an accessory industry, owing to its associations particularly with textiles. What was more important in the evolution of chemistry was that the production of dyes in large quantities marked the earlier developments in the field of organic chemistry, the dyes being produced from coal tar materials.

About the same time the production of plastics—of celluloid—in a very small way was begun in the United States and a little later experiments in the production of synthetic fibers were begun in France.

It was not, however, until the period preceding World War I that the revolutionary developments in the new chemical industry reached commercial production. Three or four achievements of this period stand out—the achievements in catalysis, which had been started by Sabatier in France around the turn of the century, the work in high-pressure synthesis exemplified in Haber's synthesis of ammonia in Germany, the cracking of petroleum fractions in refinery operations which had been initiated by Burton and others in the United States, and the triumphal successes in the manufacture of alloy steels which had been made feasible by the electric furnace.

Two sectors of the chemical industry have already grown to substantial proportion in Texas and the greater Southwest. These are the heavy alkalies together with chlorine and the production of synthetics from oil and gas hydrocarbons. Other phases of the chemical industry are getting a foothold in the state, particularly exemplified by the production of magnesium metal by electrolysis.

SHIFTS AND DEVELOPMENTS IN ALKALI PRODUCTION

The modern chemical industry may be said to have begun with the application of the LeBlanc process to the manufacture of soda ash.

Near the close of the 18th century France was shut off by wars from the supplies of soda (made by burning kelp) which had been used by the French glass industry. At this stage LeBlanc developed a process of making sodium carbonate, using such common materials as salt, limestone, and sulphuric acid. And although the LeBlanc process was an involved one, it marked the beginning of industrial chemistry.

The new alkali industry which came in the wake of the LeBlanc process benefited the growing soap industry more than it did the glass industry and it benefited England more than France.

The alkali industry was established in England in the Liverpool area in the early 1820's. It was set up in an area that possessed brine wells, with supplies of limestone and coal for fuel near by. Sulphur for sulphuric acid could be obtained from Sicily or from pyrite produced in Spain. An unwanted by product of the LeBlanc process was chlorine. The English, however, succeeded in using chlorine to make bleaching powder which in turn became a boon to English textiles—an industry which was rapidly developing during this period. It was through the production of soda ash and chlorine that England dominated the world's chemical industry until about 1870.

Beginning around 1870 the quickening of the tempo in economic and industrial progress in the Western World became a dominant factor not only in industry but in national economies as well. This quickening tempo was marked by the rise of new technologies and the widening of the raw materials base upon which industry was being built. In the early 1870's the Solvay or ammonia-soda process, which ultimately was to displace the LeBlanc process, was being put into commercial operation. The raw materials for making soda ash by the new process were brine and limestone, both of which are cheap and plentiful, together with ammonia as a process substance. The ammonia is reused continuously-an operation which has to be performed efficiently as losses of ammonia would render the process too expensive. In 1872 a plant using the ammonia-soda process was established in England; and in the early 1880's the Solvay Process Company built an ammoniasoda process plant at Syracuse, New York. In 1892 Michigan Alkali Works located a plant at Wyandotte, Michigan, in close proximity to brine wells; and in 1893 Matthieson Alkali Works established their initial plant at Saltville, Virginia.

Toward the close of the 19th century, with the commercial availability of large blocks of low-cost electric current (which were made available by the expanding new electrical industry), electrolytic production of chlorine (simultaneously with caustic soda) began to be important. In this phase of development of the alkali industry, the caustic soda was a by-product of chlorine manufacture. The early start in electrolytic production was initiated to supply chlorine for bleaching purposes particularly for the rapidly growing pulp and paper industry; since the chlorine thus produced is consumed by the industry itself, this phase of the alkali industry has been termed a consumer-producer industry.

Until the 1930's the alkali and alkali-chlorine industry was limited largely to western New York, Ohio, Michigan, and in the portion of Virginia lying in the Great Valley. The industry occupied areas in northeastern United States in which supplies of brine were available from wells, and, of course, it was near markets, although its products were carried mainly by land transport.

In the 1930's, however, following the initial stages in the spread of industry development into the Southeast and the Southwest, the heavy alkali industry was substantially established in the Southwest.

TRENDS IN THE AMERICAN ALKALI INDUSTRY

Modern alkali production has necessarily to be based on the ready availability of a large supply of its raw materials, together with low-cost fuel or power. The ammonia-soda process requires salt and lime and fuel, whereas the electrolytic process requires brine and electric power.

The operation of the electrolytic process produces about equal volumes of caustic soda and chlorine. (Although chlorine in the technical sense is not an alkali, chlorine is now mostly produced by the alkali manufacturers.)

The recent growth in the electrolytic branch of the alkali industry is an outstanding development. After World War I, paper and textile manufacturers, which were then the large consumers of chlorine, having a surplus of electric power available, built small electrolytic plants for the production of chlorine, because chlorine ordinarily is difficult to handle as regards both storage and transportation. Besides producing chlorine, these plants yielded as a by-product electrolytic caustic soda which these consumer-producer manufacturers did not need, and which was thrown on the market at a price below that of caustic soda made by the ammonia-soda manufacturers.

It was not long, however, until the ammonia-soda manufacturers themselves entered the electrolytic process field; in 1927 Solvay Process Co. built a large electrolytic plant at Syracuse, New York. In going into electrolytic production the alkali producers built large electrolytic plants to produce chlorine and caustic with "soda ash subsidized power." The economies effected were important enough to influence the entire alkali industry.

This aspect of intra-industry economy, soda ash subsidized power, has evolved from the fact that in making ammonia soda, large quantities of low pressure steam are used for heating purposes. Steam is generated at high pressures and it is used by turbines to generate electric power; after being so used, the resulting lowpressure steam is piped to the ammonia-soda portion of the alkali plant without any loss in effective heating capacity. Under these conditions electric power is generated at a very low cost, and as a consequence the alkali manufacturers can produce chlorine cheaply enough to command the market.

By the end of 1942, all but two of the nine ammoniasoda plants in the United States were to have been producing chlorine. These two plants, constituting the exceptions, are Matthieson's at Saltville, Virginia, and Solvay's at Detroit.

Hydrogen gas, a by-product of the electrolytic brine process, was formerly wasted; it has now become a valuable by-product, however, due to its demand for synthetic ammonia manufacture, the hydrogenation of oils, and in some cases for the manufacture of hydrochloric acid.

Plants using the ammonia-soda process causticize soda ash with lime in order to make caustic soda, and thus the manufacturer is able to alter the relative quantity of these two major alkali products.

To sum up: From 1884, when Solvay Process Company built at Syracuse, New York, the first ammoniasoda plant for producing alkalies in the United States, until 1930 all the alkali plants of this country were concentrated in the Great Lakes region, except for the Matthieson plant at Saltville, Virginia.

SHIFT OF HEAVY ALKALIES TO THE SOUTHWEST

The shift of the heavy alkali industry into southwestern United States is a reflection of the general movement of geographic dispersion of industry in the United States. Three new ammonia-soda plants were built in the Southwest, in the 1930's; a few years after their establishment, each one of the plants, among other things, added a chlorine unit of considerable size.

The factors concerned in this southwestern trend of heavy alkalies include:

1. The consumption aspects associated with a growing demand of other large industries in the South and Southwest. This expansion of an industrial market for heavy alkalies and chlorine includes a number of factors:

(a) The movement of the viscose rayon industry southward, an industry which utilizes purified wood pulp and cotton linters, as its raw materials, and which requires large amounts of process chemicals. There is also the factor of a very important potential demand of the rapidly growing rayon industry in the South for chemical pulps from Southern woods and for other chemicals.

(b) The growth of petroleum refining in the Southwest to the proportions of a vast industry, and the consequent large demands for process chemicals in oil refining operations.

fining operations. (c) The geographic shift of the pulp and paper industry into the South, a movement first manifested in Kraft production, and later in the production of newsprint and bleached fine papers. There is also the increasing production of glass and of soap (both of which are large users of alkali) in the Southwest.

(d) The large expansion of aluminum industry in the Southeast, starting with the greatly increased production of alumina at Mobile (from imported bauxite) and of aluminum at Aloca, Tennessee, an expansion of which has been greatly accelerated by the war program. The production of both alumina and aluminum requires large quantities of process chemicals.

The aluminum industry requires large amounts of soda ash, one of the most common of the heavy alkalies; soda ash is converted to caustic soda which is used in making alumina from bauxite (aluminum ore). The requirements of the expanded aluminum program may put soda ash (and caustic soda) on the scarce materials list in 1943.

The annual output of soda ash has been in excess of 3.5 millions tons. The glass industry has been taking about a million tons annually, the soap industry around 875,000 tons and the chemical indutry itself about a million and a half tons for the manufacture of caustic soda and other chemicals.

2. The raw materials aspect, involving a growing realization of the vast significance of the plentiful raw materials upon which the large growth of the heavy alkali production in the Southwest is necessarily based. These materials include salt and brine, lime including oyster shell, together with cheap fuel, especially natural gas.

3. The availability of tidewater transportation owing to the region's location with respect to the Gulf Coast.

RISE OF AN ORGANIC CHEMICAL INDUSTRY IN THE UNITED STATES

The recent expansion in the production of synthetic organic chemicals is little short of a revolutionary development. Thanks to the large supplies of oil and gas hydrocarbons in Texas and to a technology available for putting them to wider uses, the synthetic organic chemistry may be considered as firmly established in the State—or perhaps the statement should be that the beginnings are firmly established for the larger potentialities have as yet scarcely been touched.

It was Germany that led in the great developments of organic chemicals in the latter part of the 19th century. After 1870 had come the quickening of chemical advances in Germany and along with Germany's expanding industry went the rise of organic chemicals, mainly dyes, built upon coal-tar products—the raw materials of which in turn were being turned out at an increasing rate by the rapidly growing German steel industry, which, of course, required large amounts of coke. The coal tar materials were by-products of the coke industry.

When World War I broke out in Europe the United States suddenly was made to realize that it practically had no organic chemical industry. The United States had depended upon Germany for these necessities. Under the spur of necessity there was created in the United States a synthetic organic chemicals industry, which grew apace in the two decades after World War I. The American phase of the industry during these years involved particularly the coal-tar chemicals, rayon, and

the like, the production of which naturally was concentrated in eastern portions of the country. Beginnings were made in other lines, however, and by the time the United States entered World War II the new lines in the American chemical industry were well in evidence. These new lines were built to a large extent upon oil and gas hydrocarbons. They embrace a wide range of strategic products of the first magnitude—explosives, synthetic rubbers, plastics, Nylon, the vinyl compounds, tailormade aviation gasolines, and so on. These lines are to be considered as almost entirely an American development, just as the oil and gas industries upon which they are built are characteristically American developments.

So momentous are the potentialities for further development along these various lines that it is only appropriate to add that the history of these developments is still ahead of us. Furthermore, with its large supplies of hydrocarbons and having a large sector of the modern oil refining industry already established, it is but natural that a large share of these new developments in the production of organic chemicals should come to Texas, as they have in the war emergency. Because of these factors, together with the momentum already established, it is to be expected that not only will these chemical industries continue to operate in Texas in the post-war period but also that they will expand their operations considerably. It is to be expected that they will increase their mass-production of intermediates and that in addition they will develop facilities for making full lines of consumers' goods not only for the Texas and Southwestern market but for the national market as well.

LARGER ASPECTS OF THE CHEMICAL INDUSTRY

The chemical industry represents par excellence the combination of science and technology and industrial organization in the building up of a tremendous sector of modern industry. More than that, however, the chemical industry is to be regarded as an institutional factor at once world-wide in its operations and now an inherent feature in all industries everywhere. All of which means that in the post-war period the challenge to chemistry so far as technology is concerned, to reign supreme in future industrialization will outrank most other considerations based upon technologic developments.

When we consider what this may well mean in the field of textiles or of plastics, of synthetic rubber and dyes and alcohols, of the light metals, of synthetic motor fuels and the like, to take some of the things that already are well in the foreground of current developments, then, indeed, in the light of accomplishments to date, are the potentialities imposing and the implications of the new industry developments so extensive and so far-reaching that the imagination almost balks at trying to visualize the "shape of things to come."

These are things that will affect and modify, even transform the industrial structure of the world at large; but they will do it only if the natural resources upon which they necessarily depend are available in adequate quantities; and the pattern of development to be followed will largely be determined by the patterns of natural resources, their world distribution, their inherent characteristics, and of the combinations in which nature has brought them into existence. It is to these factors that technology will have to adjust itself. All of which means that the potentialities will be laid out in great regional patterns, and that regions possessing the required natural resources will of necessity be the ones to receive primary consideration.

When we consider, for instance, the enormous potentialities that revolve about the chemistry of hydrocarbons on the one hand and on the other the magnificent display of oil and gas resources in Texas, we may be very sure that these resources will be called upon to play a most prominent part in days to come. That the utmost attention must be given the conservation of these irreplaceable resources cannot be questioned. Nor is it probable that the potentialities these resources hold for future industry have been at all fully realized even by those who have given most attention to these vital problems. Our specialized knowledge concerning the details of these dynamic problems is growing at an accelerated pace, and this has to be. On the other hand, it is just as necessary to have over-all points of view which will embrace these basic individual problems as interrelated aspects of an integrated synthesis.

From the very nature of the problems confronting them in laying out programs which of necessity are of a long-range nature, technologists are already giving much attention to presenting their problems in wider settings, both from a technologic and an economic point of view. For instance, G. H. Freyermuth, a technologist of the Standard Oil Company of New Jersey, in an article in *The Journal of Commerce* of April 12, 1943, concisely and pointedly summarizes "chemical synthesis methods widely used in the oil industry" as follows:

Petroleum chemical research and engineering are forging not only a vasily more powerful weapon in World War II, but a weapon which in the post-war era most certainly will be the hasis for opening vast new fields. These fields will affect the lives of everyone. . . The simple availability of petroleum has not been enough. It has been necessary to convert this petroleum raw material into far more useful forms than were provided by nature. To achieve these has required the application of chemical synthesis in petroleum refining on an unprecedented scale. One of the most important products being provided from petroleum in this war, for example, is 100 octane gasoline—that, super-fuel on which the entire United Nations have now standardized and which, as compared to any naturally available fuel, makes possible an invaluable edge in power and economy for our fighting aircraft.

In many respects 100 octane gasoline is a true synthetic product. The blending agents which comprise nearly half of its total composition are really synthetic molecules precisely constructed from carefully prepared petroleum raw material.

These synthetic blending agents are incorporated into gasoline derived in part from natural sources, but much of which has been drastically revised in its chemical composition by equipment which accomplishes, on a huge scale, results which have been the pride even of a precise laboratory technician a few years before the outbreak of this war. To accomplish these changes, thousands of tons of petroleum will be processed in dramatic application of the use of catalysts in petroleum refining. Such use of catalysts has entirely altered the refinerer picture

Such use of catalysts has entirely altered the refiners' picture of what can be done with a given type of crude or feed stock in the production of certain highly specialized types of products. The World War II refiners, in constructing and operating large full-scale equipment, think in terms of such chemical processes as hydrogenation, alkylation, polymerization, aromatization, superfractionation, isomerization---all terms which only the analytical and research chemist dared use not long ago.

and research chemist dared use not long ago. Synthetic toluene is another 'war-baby' of the petroleum industry. Today toluene is being synthesized from petroleum hydrocarbons in tremendous quantities. This toluene is of extraordinary purity; in fact, is one of the first substantially chemically pure products ever produced commercially from petroleum. The importance of toluene is that it is one of the two prime raw materials necessary in the manufacture of TNT.

Some toluene occurs naturally in petroleum and, as a matter of fact, toluene was recovered from petroleum in World War I. By now, methods for recovering this natural toluene have been improved and are in use to recover the maximum natural toleune from petroleum, but which is by no means adequate to satisfy today's huge demands. The answer has been the synthesis of toluene by a catalytic process fortunately developed prior to the war and which, used in many of the industry's refineries, is now this country's mainstay in producing practically unlimited quantities of TNT.

Another war field involving chemical synthesis is the production of raw materials for synthetic rubber. The crises with which this country was faced in the supply of rubber after the Japs took Singapore and the Dutch East Indies was certainly one of the most desperate in our history. Yet today we confidently expect to make synthetically sufficient rubber to meet our minimum military and civilian needs. In many respects this is one of the world's modern industrial miracles. It has been made possible in no small degree by the ability to produce butadiene from petroleum. Butadiene a few years ago was a rare chemical. Today well over a billion pounds a year are scheduled for production. Styrone, which is also necessary to the synthetic rubber pro-

Styrone, which is also necessary to the synthetic rubber program, will be produced from petroleum by processes not used before on a commercial basis. In addition, isobutylene, a constituent of refinery cracking coil gases, is being separated and polymerized into butyl rubber—a synthetic of an entirely new type which may well be of great future importance,

OTHER CONTRIBUTIONS

While aviation gasoline, toluene, and rubber are the more dramatic contributions of petroleum in World War II, they should not dim petroleum's many other chemical contributions to our fighting ability. Many base chemicals, such as alcohols, naphthenic acids, sulfonates, and ethylene are being produced from petroleum in quantities sufficient to alter entirely the country's supply picture in these critical chemicals.

In the rapidly growing field of chemical additives to change the characteristics of petroleum products, new wonders are being wrought. Detergents have been developed which phenominally improve the effectiveness of lubricants. Special inhibitors have been developed to increase greatly the resistance of lubricants to oxidation.

To the great fortune of this country, many of these new chemical processes, developed and applied for war purposes, will find an immediate useful market in the post-war world. Certainly no one can deny the potential benefit to every automobile or airplane owner of the greater power and efficiency of the newly available gasoline. Greatly improved lubricants will permit these engineers to develop these higher powers safely for longer lengths of time. More economical, less troublesome transportation will result.

As a raw material in the chemical field, petroleum seems to have crossed a threshold beyond which lie boundless possibilities. Only time will tell the extent to which the innumerable chemical products it is now known can be made from petroleum will affect our everyday life. New soaps, new textiles, new products of every kind offer a fascinating future to the chemist working in petroleum.

ELMER H. JOHNSON,

World Demand for United States Grown Cotton

World demand for United States grown cotton is not fixed but is a variable amount depending on many factors most of which are under our own control.

Almost 100 per cent of the cotton consumed in the world must first be made into yarn in spinning mills. The numbers of cotton spinning spindles in a country and the counts of yarn they make are reliable indicators of that country's demand for amounts and kinds of cotton.

Before this war started the world had approximately 145,000,000 cotton spinning spindles and of these Europe, including Russia, had about 87,700,000, North America 27,500,000, Asia 25,500,000, South America 3,000,000 and the rest of the world 1,300,000.

World mill consumption during the three years ending 1938-39 averaged 28,500,000 bales of cotton. During those same three years, world production of cotton outside the United States averaged 17,200,000 bales, and world consumption outside the United States averaged 21,600,000 bales which means that the minimum amount of cotton the United States could export to supply world demand was 4,400,000 bales.

The amount of United States grown cotton which the world outside the United States would take under more favorable trading relations would be substantially increased if it is safe to judge by past history.

Europe and, to a large extent, Asia outside of India will be bare of cotton when the war closes, and, in addition, there will be a large accumulated demand, at least a desire, due to the fact that people in these countries have been able to obtain little or no cotton goods for several years.

The European countries and Japan and China will need at least 2,000,000 bales of cotton immediately to stock their mills, and 1,000,000 bales monthly to supply them until a new crop is available. The country able to supply that greatly needed cotton and the credit and market facilities organized and mobilized to make the sales and transfers will be able to render the world an incalculable service in making the transition from a

war to a peace-time economy and have a greatly increased influence in shaping the world order after the war.

TYPES OF UNITED STATES COTTON IN DEMAND IN FOREIGN COUTRIES

Cotton has many uses which require many different characteristics, grades, and staple lengths of raw cotton. The location of the production of these various qualities is determined to a predominant degree by natural factors such as soil, and especially elimate. The result is that the Orient, especially India and China, as shown in my March article, dominate the world's production of short staple cotton (cotton under 7/8 inch). Egypt aided somewhat by the Sudan and Peru dominate the world market for long staple cotton (cotton 1 1/8 inch and longer). Whereas the Americas, and more especially the United States, dominate the world markets for medium staple cottons (those 7/8 to 1 1/8 inch staple lengths), and these medium staple cottons because of their large volume and many uses tend to dominate the world markets for all cotton.

What kind of cotton do foreign countries want from this country? According to reports of United States cotton exporting merchants, about 39 per cent of our exports during the season 1937–38 was 15/16 and 31/32 inch, 29 per cent was 1 inch and 1 1/32, 19 per cent was 7/8 and 29/32 inch, 11 per cent was 1 1/16 and 1 3/32 inch. About 1.3 per cent was 1 1/8 inch and longer and less than 1 per cent under 7/8 inch.

It so happens that the countries predominating in the production of both cotton shorter than 7/8 inch and longer than 1 1/8 inch are countries characterized by small farms and relatively low incomes.

There is a very serious shortage of all cottonseed products, oil, meal, linters, and hulls. There is also a relative shortage of 15/16 and 31/32 inch cotton as well as some of the long staples. Facts cited above show that there will be a great and immediate need for lint cotton in the warring nations when the war comes to an end.

In view of the above facts, would it not be good policy for the United States to use its cotton production facilities to a greater degree, especially if the increased production were in those qualities of lint in great demand now and after the war?

A. B. Cox.

COTTON BALANCE SHEET FOR THE UNITED STATES AS OF APRIL 1

(In Thousands of Running Bales Except as Noted)

| Year | | Carryover Aug. 1 | Imports to Apr. 1* | Final Ginnings | Total | Consump- tion to Apr. 1 | Exports to Apr. 1* | Total | Balance Apr. 1 |
|-----------|--|---------------------|--------------------------|-------------------|--------|-------------------------------|--------------------------|--------|-------------------|
| 1933-1934 | | 8,176 | 100 | 12,664 | 20,940 | - 3,945 | 6,098 | 10,043 | 10,897 |
| 1934-1935 | | 7,746 | 74 | 9,472 | 17,292 | 3,034 | 3,573 | 6,607 | 10,685 |
| 1935-1936 | | 7,138 | 90 | 10,420 | 17,648 | 4,081 | 4,814 | 8,895 | 8,753 |
| 1036-1937 | | 5,397 | 139 | 12,130 | 17,666 | 5,298 | 4,389 | 9,687 | 7,979 |
| 1037_1038 | | 4,498 | 80 | 18,242 | 22,820 | 4,017 | 4,657 | 8,674 | 14,146 |
| 1038_1030 | | 11.533 | 95 | 11,621 | 23,249 | 4,609 | 2,786 | 7,395 | 15,854 |
| 1030_1040 | ······································ | 13,033 | 112 | 11.481 | 24.626 | 5,331 | 5,350 | 10,681 | 13,945 |
| 1040 1043 | | 10,596 | 100 | 12,298 | 22,994 | 6.071 | 811 | 6.882 | 16.112 |
| 1041 1049 | | 12,367 | 7 | 10,489 | 22,856 | 7,501 | 7 | 7.501 | 15,355 |
| 1941-1942 | | 10,590 | ÷ | 12,437 | 23,027 | 7.250 | ÷ | 7.250 | 15.777 |
| 1942-1940 | | 10,020 | | | | -,= | | -, | , |

The cotton year begins August I. *Figures are in 500-pound bales. †Not available.

EMPLOYMENT AND PAY ROLLS IN TEXAS Maush 1042

| | | | mar cu, | 1949 | | | | |
|--------------------------------|------------------------------|-----------------------------------|-------------------------|------------------------------|------------------------------|---------------------------------|---------------------------|------------------------------|
| | Estimate Workers Feb., | d Number of Employed* March | Percen from Feb., | tage Change from March | Eatimated Weekly Feb., | Amount of Pay Rall March, | Percents from Feb., | ige Change from March, |
| MANUFACTURING | 1943.07 | 1943/20 | 1943 | 1942 | 1943(1) | 1943(2) | 1943 | 1942 |
| All Manufacturing Industries | 162,633 | 163,451 | + 0.5 | + 6.2 | \$4 567 057 | \$4 616 404 | + 11 | 4 20 0 |
| Food Products | , | | | . 0.2 | | (P3,010,703 | ' 1+1 | 1 47.0 |
| Baking | 7.736 | 7.777 | + 05 | -+ 71 % | 216 670 | 092 701 | 1 22 | J- 27 6 |
| Carbonated Beverages | 3.021 | 3.096 | + 25 | +20.6 | 83 460 | 85 134 | 4 90 | + 97.0 |
| Confectionery | 1,282 | 1,193 | - 6.9 | +20.4 | 16 787 | 15 947 | - 50 | +525 |
| Flour Milling | 2,132 | 2,202 | + 3.3 | ± 11.7 | 50,947 | 56 970 | +118 | +53.0 |
| Ice Cream | 1,159 | 1,214 | + 4.7 | + 8.9 | 28,778 | 29,030 | + 0.9 | +282 |
| Meat Packing | 6,231 | 6,045 | - 3.0 | +13.2 | 186.006 | 175.757 | - 5.5 | +31.0 |
| Textiles | | | | | | | 0.0 | |
| Cotton Textile Mills | 6,774 | 6,820 | + 0.7 | -5.0 | 141.892 | 142.462 | + 0.4 | + 7.9 |
| Men's Work Clothing | 4,807 | 5,095 | + 6.0 | + 17.3 | 67,526 | 76,851 | +13.8 | +30.4 |
| Forest Products | | | | | | | | |
| Furniture | 1,799 | 1,783 | - 0.9 | - 15.1 | 32,965 | 33.977 | + 31 | - 86 |
| Planing Mills | 2,120 | 2,056 | -3.0 | - 6.1 | 56,168 | 51,944 | - 7.5 | - 4.2 |
| Saw Mills | 16,125 | 16,108 | - 0,1 | - 8.0 | 254.219 | 250,205 | - 1.6 | + 6.4 |
| Paper Boxes | 779 | 807 | + 3,6 | +25.1 | 16,371 | 17,565 | +7.3 | + 47.5 |
| Printing and Publishing | | | | | , | , | | |
| Commercial Printing | 2,396 | 2,415 | + 0.7 | + 1.9 | 74.251 | 73,584 | - 0.9 | + 22.6 |
| Newspaper Publishing | 4,179 | 4,246 | + 1.6 | -13.7 | 108.510 | 114,092 | + 5.1 | - 4.4 |
| Chemical Products | | | | | | , | | |
| Cotton Oil Mills | 3.445 | 2.997 | -13.0 | - 6.7 | 44 439 | 40 064 | - 78 | + 97.9 |
| Petroleum Refining | 22,407 | 22,096 | - 1.4 | - 0.5 | 1.048 955 | 1 048 055 | (3) | -+-16.9 |
| Stone and Clay Products | | , | _, _ | | 1,010,000 | 1,010,700 | | 10.4 |
| Brick and Tile | 1.766 | 1.784 | + 1.0 | -152 | 28 542 | 99 333 | - 07 | - 96 |
| Cement | 1,184 | 1.165 | - 1.6 | - 13.5 | 40 733 | 42 655 | + 47 | - 55 |
| Iron and Steel Products | | - , | | | 10,100 | 42,000 | 1 76.4 | 0.0 |
| Structural and Ornamental Iron | 2.867 | 2.945 | + 2.7 | ± 15.7 | 76 186 | 70 140 | 4 30 | + 24 6 |
| NONMANUFACTURING | | -, | | ` 10 11 | 10,100 | 1,110 | 1 0.9 | 1 94,0 |
| Crude Petroleum Production | 25,992 | 25,732 | - 1.0 | - 15.4 | 1.096.247 | 1.093.032 | A 3. | ~ 08 |
| Quarrying | (4) | (4) | - 3.6 | -10.4 | (4) | (4) | 04 | - 60 |
| Public Utilities | (4) | (4) | - 0.1 | + 8.7 | -(4) | (4) | + 0.1 | +10.8 |
| Retail Trade | 204,153 | 205,587 | + 0.7 | + 9.9 | 4,269,814 | 4,308,830 | + 0.9 | +19.6 |
| Wholesale Trade | 60,084 | 60,569 | + 0.8 | | 2,079,016 | 2,132,987 | + 2.6 | +7.1 |
| Dyeing and Cleaning | 2,714 | 2,775 | + 2.2 | +14.4 | 52,051 | 53,302 | + 2.4 | +36.4 |
| Hotels | 18,018 | 17,679 | - 1.9 | +11.7 | 263,785 | 266,216 | + 0.9 | +35.6 |
| Power Laundries | 14,266 | 14,664 | + 2.8 | + 25.8 | 218,295 | 229,611 | + 5.2 | +47.8 |

CHANGES IN EMPLOYMENT AND PAY ROLLS IN SELECTED CITIES®

| | Employ Percentag | yment e Change | Pay F Percentag | lolls e Change | | Empl Percenta | oyment ge Change | Pay f Percentes | Rolls e Change |
|------------|---------------------|-------------------|--------------------|-------------------|---------------|-------------------|---------------------|--------------------|-------------------|
| | Feb., 1943 | March, 1942 | Feb., 1943 | March, 1942 | | Fcb., 1943 | March, 1942 | Feb., 1943 | March, 1942 |
| | March, 1943 | March, 1943 | March, 1943 | March, 1943 | | to March, 1943 | to March, 1943 | to March, 1943 | to March, 1943 |
| Abilene | + 5.3 | + 51.9 | + 5.8 | + 25.3 | Galveston | 7.5 | + 28.2 | - 11.1 | + 3.0 |
| Amarillo | - 4.1 | - 4.0 | - 3.8 | + 16.9 | Houston | . + 0.1 | + 12.5 | +1.5 | + 18.1 |
| Austin | ← 2.1 | + 25.2 | - 7.1 | + 33.4 | Port Arthur | 2.8 | ± | -1.0 | + 24.2 |
| Beaumont | + 0.1 | + 58.9 | + 5.0 | +146.6 | San Antonio | - 1,5 | + 3.3 | - 1.4 | + 14.0 |
| Dallas | - 0.8 | + 10.8 | - 1.1 | + 31.3 | Sherman | 1.9 | + 27.3 | + 7.0 | + 54.0 |
| El Paso | + 0.3 | - 1.4 | + 0.7 | + 12.1 | Waco | + 0.5 | + 14.3 | + 0.3 | + 29.5 |
| Fort Worth | + 9.6 | + 57.2 | + 12.3 | + 97.3 | Wichita Falls | + 3.5 | + 21.3 | + 2.9 | + 13.8 |
| | | | | , | STATE | . + 1,3 | + 23.1 | + 3.5 | + 45.6 |

ESTIMATED NUMBER OF EMPLOYEES IN NONAGRICULTURAL BUSINESS AND GOVERNMENT ESTABLISHMENTS

| | 1941 1942 | 1943 | | 1941 | 1942 ⁽¹⁾ | 1943 |
|------------|-------------------|-------------|-----------|-----------|---------------------|------|
| January1, | ,094,000 1,170,00 | 0 1,362,000 | July | | 1.317.000 | |
| February1, | ,120,000 1,199,00 | 10 | August | 1,176,000 | 1.352.000 | |
| March | ,120,000 1,226,00 | 0 | September | | 1.373.000 | |
| April1, | ,114,000 1,222,00 |)0 | October _ | | 1.384.000 | |
| May | ,120,000 1,251,00 | 0 | November | 1,219,000 | 1.389.000 | |
| June1 | ,134,000 1,291,00 | 0 | December | 1,222,000 | 1,413,700 | |

*Does not include proprietors, firm members, officers of corporations, or other principal executives. Factory employment excludes also office, sales, technical and professional personnel. (3)Subject to revision. (3)Less than 1/20 of one per cent. (4)Not available. (6)No change. (6)Based on unweighted figures. (7)Not including self-employed persons, casual workers, or domestic servants, and exclusive of military and maritime personnel. These figures are furnished by the Burcau of Labor Statistics, U.S. Department of Labor. Propared from reports from representativo Texas establishments to the Burcau of Business Research cooperating with the Burcau of Labor Statistics, Due to the national emergency, publication of data for certain industries is being withheld until further notice.

MARCH RETAIL SALES OF INDEPENDENT STORES IN TEXAS

| | in Dollar f | | | ales | | |
|--|---------------------------------|----------------------------------|----------------------------------|--------------------------------|--|--|
| | Number of Firms Reporting | Mar., 1943 from Mar., 1942 | Mar., 1943 from Feb., 1943 | Year 1943 from Year 1942 | | |
| TOTAL TEXAS | | +24 | - 1 | + 32 | | |
| STORES GROUPED BY LINE OF GOODS CARRIED: | | | | | | |
| APPAREL | 103 | +38 | -17 | +63 | | |
| Family Clothing Stores | 29 | +44 | - 6 | +67 | | |
| Men's and Boys' Clothing Stores | 34 | +26 | -16 | - + 47 | | |
| Shoe Stores | 11 | +20 | -18 | +70 | | |
| Women's Specialty Shops | 29 | + 46 | 20 | + 74 | | |
| AUTOMOTIVE* | 00 | + 46 | + 62 | +7 | | |
| Motor Vehicle Dealers | | + 51 | -+ 66 | + 9 | | |
| COUNTRY GENERAL | 94 50 | - <u>+</u> 24- | <u> </u> | -1°-24- -⊥-40 | | |
| DEPARIMENT STORES | | 7-27 | <i>i</i> | - T 45 - 1 05 | | |
| DRUG STURES | | + 70 | D | - 75 - 75 | | |
| BUI GOODS AND GENERAL MERCHANDISE | | + 14 | + 4 | +12 | | |
| FILLING STATIONS | | +47 | | + 20 | | |
| FLORD TO THE FLORD | 133 | + 35 | + 7 | + 25 | | |
| Grovery Stores | 42 | +34 | + 7 | +27 | | |
| Grocery and Meat Stores | 85 | +34 | ÷ 7 | +23 | | |
| FURNITURE AND HOUSEHOLD* | 67 | + 7 | +11 | +14 | | |
| Furniture Stores | 59 | +10 | +14 | +16 | | |
| JEWELRY | 27 | +68 | + 13 | +44 | | |
| LUMBER, BUILDING, AND HARDWARE* | 172 | - 19 | + 10 | -12 | | |
| Farm Implement Dealers | 10 | - 28 | - 9 | - 19 | | |
| Hardware Stores | 53 | - 16 | +11 | 11 | | |
| _ Lumber and Building Material Dealers | | -20 | + 13 | -12 | | |
| RESTAURANTS | 15 | + 65 | +13 | + 65 | | |
| ALL OTHER STORES | 12 | + 25 | + 7 | + 30 | | |
| TEXAS STORES GROUPED ACCORDING TO POPULATION OF CITY: | | | | | | |
| All Stores in Cities of- | | | | | | |
| Over 100,000 Population | | +21 | - 9 | +36 | | |
| 50,000-100,000 Population | 110 | +33 | + 6 | + 35 | | |
| 2,500-50,000 Population | 461 | +26 | + 9 | +27 | | |
| Less than 2,500 Population | 223 | +11 | + 12 | +10 | | |
| | | | | | | |

*Group total includes kinds of business other than the classifications listed. ⁽¹⁾Change of less than .5%.

Prepared from reports of independent retail stores to the Burcau of Business Research, coöpurating with the U.S. Burcau of the Consus.

MARCH SHIPMENTS OF LIVE STOCK CONVERTED TO A RAIL-CAR BASIS*

| | Cattle | | Calves | | H | Hogs | | Sheep | | Total | |
|--------------------------------------|--------|-------|--------|------|-------|-------|------|-------|--------|-------|--|
| | 1943 | 1942 | 1943 | 1942 | 1943 | 1942 | 1943 | 1942 | 1943 | 1942 | |
| Total Interstate Plus Fort Worth | 6,121 | 3,547 | 736 | 709 | 1,557 | 1,094 | 678 | 639 | 9.092 | 5.989 | |
| Total Intrastate Omitting Fort Worth | 716 | 391 | 228 | 112 | 59 | 8 | 20 | 8 | 1,023 | 519 | |
| TOTAL SHIPMENTS | 6,837 | 3,938 | 964 | 821 | 1,616 | 1,102 | 698 | 647 | 10,115 | 6,508 | |

TEXAS CAR-LOT* SHIPMENTS OF LIVE STOCK FOR YEAR 1943

| | Cattle | | Calves | | Hoge | | Sheep | | Total | |
|--------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|
| | 1943 | 1942 | 1943 | 1942 | 1943 | 1942 | 1943 | 1942 | 1943 | 1942 |
| Total Interstate Plus Fort Worth | 13,680 | 9,628 | 2,014 | 2,219 | 3,985 | 2.907 | 2.011 | 1.413 | 21.690 | 16.167 |
| Total Intrastate Omitting Fort Worth | 2,380 | 1,156 | 604 | 329 | 209 | ´ 35 | 166 | ´ 45 | 3,359 | 1,565 |
| TOTAL SHIPMENTS | 16,060 | 10,784 | 2,618 | 2,548 | 4,194 | 2,942 | 2,177 | 1,458 | 25,049 | 17,732 |

*Rail-car Basis: Cattle, 30 head per car; calves, 60; hogs, 80; and sheep, 250.

Fort Worth shipmonts are combined with interstate forwardings in order that the bulk of market disappearance for the month may be shown.

Norz: These data are furnished the United States Bureau of Agricultural Economics by railway officials through more than 1,500 station agents, representing every live stock shipping point in the State. The data are compiled by the Bureau of Business Research.

MARCH RETAIL SALES OF INDEPENDENT STORES IN TEXAS BY DISTRICTS

| Number of Reporting Mar., 1942 from Mar., 1942 Mar., 1943 from Fob., 1943 Year 1942 Year 1942 TOTAL TEXAS 943 $+24$ -1 $+32$ TEXAS STORES GROUPED BY PRODUCING AREAS: -1 $+32$ $+44$ Amarillo 23 $+80$ $+5$ $+63$ Pampa 12 $+45$ $+20$ $+34$ All Others 20 $+25$ $+16$ $+22$ District 1–S 29 $+44$ $+18$ $+36$ Lubbock 16 $+42$ $+22$ $+38$ All Others 13 $+38$ $+^{(1)}$ $+29$ District 2 -844 $+28$ $+9$ $+26$ Abilene 15 $+57$ $+10$ $+13$ District 3 -35 -6 $+7$ $+13$ District 4 -200 $+30$ -10 $+44$ Dallas -33 $+26$ -15 $+43$ Ft. Worth -24 $+33$ | | | Percentage Changes in Dollar Sales | | | |
|--|----------------|---------------------------------|---------------------------------------|--|--------------------------------|--|
| TOTAL TEXAS 943 $+24$ -1 $+32$ TEXAS STORES GROUPED BY PRODUCING AREAS: District 1-N 67 $+55$ $+9$ $+44$ Amarillo 23 $+80$ $+5$ $+63$ Pampa 12 $+45$ $+20$ $+34$ Plainview 12 $+47$ $+50$ $+34$ All Others 20 $+25$ $+16$ $+22$ District 1-S 29 $+41$ $+18$ $+36$ Lubbock 16 $+42$ $+22$ $+38$ All Others 13 $+38$ $+5^{(7)}$ $+29$ District 2 84 $+28$ $+9$ $+26$ Abilene 15 $+57$ $+10$ $+13$ District 3 35 $+6$ $+7$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 <th></th> <th>Number of Firms Reporting</th> <th>Mar., 1943 from Mar., 1942</th> <th>Mar., 1943 from Feb., 1943</th> <th>Year 1943 from Year 1942</th> | | Number of Firms Reporting | Mar., 1943 from Mar., 1942 | Mar., 1943 from Feb., 1943 | Year 1943 from Year 1942 | |
| TexAs STORES GROUPED BY PRODUCING AREAS: District 1-N 67 ± 55 $+ 9$ ± 44 Amarillo 23 ± 80 ± 5 ± 63 Pampa 12 ± 45 ± 20 ± 34 All Others 20 ± 25 ± 16 ± 22 District 1-S 29 ± 41 ± 8 ± 9 ± 26 All Others 13 ± 38 $\pm 0^{-1}$ ± 29 District 2 $= 84$ ± 9 ± 26 Abilene 15 ± 57 ± 10 ± 62 Abilene 12 ± 18 ± 4 ± 12 All Others 57 ± 17 ± 10 ± 13 District 3 $= 35$ $= 6$ $= 7$ ± 13 District 4 200 ± 30 ± 10 ± 44 Dallas $= 33$ ± 26 $= 15$ ± 43 Ft. Worth 24 ± 35 $= 9$ ± 47 Sherman 11 $= 3$ ± 8 | TOTAL TEXAS | 943 | +24 | - 1 | +32 | |
| IEARS STORES GROUPED BY PRODUCING AREAS: District 1-N 67 ± 55 $+ 9$ ± 44 Amarillo 23 ± 80 ± 5 ± 63 Pampa 12 ± 45 ± 20 ± 34 All Others 20 ± 25 ± 16 ± 22 District 1-S 29 ± 44 ± 18 ± 36 Lubbock 16 ± 42 ± 22 ± 38 All Others 13 ± 38 $\pm 0^{-1}$ ± 29 District 2 84 ± 28 $= 9$ ± 26 Abilene 15 ± 57 ± 10 ± 62 Wichita Falls 12 ± 18 ± 4 ± 13 District 3 35 ± 6 ∓ 7 ± 13 District 4 200 ± 30 ± 10 ± 44 Dallas 33 ± 26 ± 9 ± 44 Dallas 93 ± 13 ± 5 ± 13 Waco 223 ± 46 ± 13 <td< td=""><td>TEVAS STOPES</td><td></td><td></td><td>Ŷ</td><td></td></td<> | TEVAS STOPES | | | Ŷ | | |
| PRODUCING AREAS: District 1-N 67 ± 55 $+ 9$ ± 44 Amarillo 23 ± 80 ± 5 ± 63 Pampa 12 ± 45 ± 20 ± 34 Plainview 12 ± 47 ± 00 ± 34 All Others 20 ± 25 ± 16 ± 22 District 1-S 29 ± 44 ± 18 ± 36 Lubbock 16 ± 42 ± 22 ± 38 All Others 13 ± 38 $\pm 0^{-1} \pm 29$ District 2 84 ± 28 $= 9$ ± 26 Abilene 15 ± 57 ± 10 ± 62 Wichita Falls 12 ± 18 ± 4 ± 12 All Others 57 ± 17 ± 10 ± 43 District 4 200 ± 30 ± 10 ± 43 Ft. Worth 24 ± 35 $= 9$ ± 47 Sherman 11 -3 ± 5 ± 13 Waco 22 ± 37 <td< td=""><td>CRAIDED BY</td><td></td><td></td><td></td><td></td></td<> | CRAIDED BY | | | | | |
| District 1-N 67 ± 55 ± 9 ± 44 Amarillo 23 ± 80 ± 5 ± 63 Pampa 12 ± 45 ± 20 ± 34 Plainview 12 ± 47 ± 0 ± 34 All Others 20 ± 25 ± 16 ± 22 District 1-S 29 ± 44 ± 18 ± 36 Lubbock 16 ± 42 ± 22 ± 38 All Others 13 ± 38 $\pm 0^{-1} \pm 29$ District 2 $= 84$ ± 8 $= 9$ ± 26 Abilene 15 ± 57 ± 10 ± 62 Michita Falls 12 ± 18 ± 4 ± 12 All Others 57 ± 17 ± 10 ± 64 Dallas 33 ± 26 ± 15 ± 43 Ft. Worth 24 ± 35 -9 ± 47 Sherman 11 -3 ± 5 ± 13 Waco 23 ± 46 -1 ± 56 | PRODUCING AREA | s. | | | | |
| District 1-N 07 $+33$ $+30$ $+5$ $+63$ Pampa 12 $+445$ $+20$ $+34$ Plainview 12 $+47$ $+50$ $+34$ All Others 20 $+25$ $+16$ $+22$ District 1-S 29 $+44$ $+18$ $+36$ Lubbock 16 $+42$ $+22$ $+38$ All Others 13 $+33$ $+70$ $+29$ District 2 84 $+28$ $+9$ $+26$ Abilene 15 $+57$ $+10$ $+13$ District 3 35 $+6$ $+7$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 23 $+46$ -1 $+56$ All Others 109 $+33$ $+8$ $+39$ Dis | District 1 N | s). 67 | | + 0 | -l- 11 | |
| Amarino 23 $+30$ $+34$ Pampa 12 $+45$ $+20$ $+34$ Plainview 12 $+47$ $+30$ $+34$ All Others 20 $+25$ $+16$ $+22$ District 1-S 29 $+441$ $+18$ $+36$ Lubbock 16 $+42$ $+22$ $+38$ All Others 13 $+38$ $+50$ $+22$ District 2 84 $+28$ $+9$ $+26$ Abilene 15 $+57$ $+10$ $+62$ Wichita Falls 12 $+18$ $+4$ $+12$ All Others 57 $+17$ $+10$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+13$ Waco 22 $+37$ $+10$ $+31$ All Others 20 <t< td=""><td>District I-N</td><td>0/</td><td></td><td></td><td>1 44</td></t<> | District I-N | 0/ | | | 1 44 | |
| Painyiew 12 $+47$ $+60$ $+34$ All Others 20 $+25$ $+16$ $+22$ District 1-S 29 $+44$ $+18$ $+36$ Lubbock 16 $+42$ $+22$ $+38$ All Others 13 $+38$ $+60$ $+29$ District 2 84 $+28$ $+9$ $+26$ Abilene 15 $+57$ $+10$ $+62$ Wichita Falls 12 $+18$ $+4$ $+12$ All Others 57 $+17$ $+10$ $+62$ Wichita Falls 12 $+18$ $+4$ $+13$ District 3 35 $+6$ $+7$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 22 $+33$ $+8$ $+39$ District 5 | D | <u>20</u> | + 45 | | - T 03 - 1.94 ' | |
| All Others 20 $+25$ $+16$ $+22$ District 1-S 29 $+41$ $+18$ $+36$ Lubbock 16 $+42$ $+22$ $+38$ All Others 13 $+33$ $+^{(0)}$ $+29$ District 2 84 $+28$ $+9$ $+26$ Abilene 15 $+57$ $+10$ $+62$ Wichita Falls 12 $+18$ $+4$ $+12$ All Others 57 $+17$ $+10$ $+62$ Wichita Falls 12 $+18$ $+4$ $+12$ All Others 35 $+6$ $+7$ $+13$ District 3 35 $+6$ $+7$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 23 $+46$ -1 $+56$ All Others | Pampa | 12 | 40 | | ± 24. | |
| All Others 20 $+23$ $+10$ $+22$ District 1-S 29 $+44$ $+18$ $+36$ Lubbock 16 $+42$ $+22$ $+38$ All Others 13 $+38$ $+^{(0)}$ $+29$ District 2 84 $+28$ $+9$ $+26$ Abilene 15 $+57$ $+10$ $+62$ Wichta Falls 12 $+18$ $+4$ $+12$ All Others 57 $+17$ $+10$ $+13$ District 3 35 $+6$ $+7$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 23 $+46$ -1 $+56$ All Others 109 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+15$ District 7 | All Others | | 191 195 | -+ 16 | T 04/ ⊥ 99 | |
| District 1-5 16 $+42$ $+13$ $+38$ All Others 13 $+38$ $+^{(0)}$ $+29$ District 2 84 $+28$ $+9$ $+26$ Abilene 15 $+57$ $+10$ $+62$ Wichita Falls 12 $+18$ $+4$ $+12$ All Others 57 $+17$ $+10$ $+13$ District 3 35 $+6$ $+7$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 23 $+46$ -1 $+56$ All Others 109 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+15$ District 7 $=22$ $+37$ $+10$ $+31$ All Others 20 $+44$ $+0^{0}$ $+51$ District | District 1 S | 40 | + 43 | + 10 | + 26 | |
| All Others 13 +38 + $\frac{12}{20}$ +29 District 2 84 +28 +9 +26 Abilene 15 +57 +10 +62 Wichita Falls 12 +18 +4 +12 All Others 57 +17 +10 +13 District 3 35 +6 +7 +13 District 4 200 +30 -10 +44 Dallas 33 +26 -15 +43 Ft. Worth 24 +35 -9 +47 Sherman 11 -3 +5 +13 Waco 23 +46 -1 +56 All Others 109 +33 +8 +39 District 5 93 +13 +5 +15 District 6 42 +38 +9 +33 El Paso 22 +37 +10 +31 All Others 20 +44 +00 +51 District 7 52 +22 +9 +21 | Lubbook | 49 | + 49 | + 99 | + 30 | |
| All Others 13 14 $+28$ $+9$ $+26$ Abilene 15 $+57$ $+10$ $+62$ Wichita Falls 12 $+18$ $+4$ $+12$ All Others 57 $+17$ $+10$ $+62$ Wichita Falls 12 $+18$ $+4$ $+12$ All Others 57 $+17$ $+10$ $+13$ District 3 35 $+6$ $+7$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 23 $+46$ -1 $+56$ All Others 109 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+15$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+1$ $+29$ | All Others | - 19 | + 39 | + (1) | + 90 | |
| Abilene 15 $+57$ $+10$ $+62$ Wichita Falls 12 $+18$ $+4$ $+12$ All Others 57 $+17$ $+10$ $+13$ District 3 35 $+6$ $+7$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 23 $+46$ -1 $+56$ All Others 109 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+15$ District 6 22 $+37$ $+10$ $+31$ All Others 20 $+44$ $+40^\circ$ $+51$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+12$ $+23$ Mautin 18 $+13$ $+10$ $+24$ San A | District 9 | 84 | + 28 | ÷ o | + 25 | |
| Witchita Falls 12 $+13$ $+14$ $+12$ All Others 57 $+17$ $+10$ $+13$ District 3 35 $+6$ $+7$ $+13$ District 4 200 $+30$ -10 $+44$ Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 23 $+46$ -1 $+56$ All Others 109 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+15$ District 6 22 $+37$ $+10$ $+31$ All Others 20 $+44$ $+30$ $+51$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ 1 $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 94 $+15$ $+10$ $+16$ District 8 <td>Ahilene</td> <td>15</td> <td>+57</td> <td><u>nt +</u></td> <td>+62</td> | Ahilene | 15 | +57 | <u>nt +</u> | +62 | |
| All Others 57 +17 +10 +13 District 3 35 +6 +7 +13 District 4 200 +30 -10 +44 Dallas 33 +26 -15 +43 Ft. Worth 24 +35 -9 +47 Sherman 11 -3 +5 +13 Waco 23 +46 -1 +56 All Others 109 +33 +8 +39 District 5 93 +13 +5 +15 District 6 42 +38 +9 +33 El Paso 22 +37 +10 +31 All Others 20 +44 +00 +51 District 7 52 +22 +9 +21 San Angelo 11 +26 +1 +29 Fredericksburg 10 -3 +12 +2 All Others 31 +24 +21 +15 District 8 160 +19 +1 +30 | Wichita Falls | 12 | +18 | +- ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | +12 | |
| District 3 35 + 6 + 7 + 13 District 4 200 + 30 -10 + 44 Dallas 33 + 26 -15 + 43 Ft. Worth 24 + 35 -9 + 47 Sherman 11 -3 + 5 + 13 Waco 23 + 46 -1 + 56 All Others 109 + 33 + 8 + 39 District 5 93 + 13 + 5 + 15 District 6 42 + 38 + 9 + 33 El Paso 22 + 37 + 10 + 31 All Others 20 + 44 + 40 + 51 District 7 52 + 22 + 9 + 21 San Angelo 11 + 26 + 1 + 29 Fredericksburg 10 - 3 + 12 + 2 All Others 31 + 24 + 21 + 15 District 8 160 + 19 + 1 + 30 Austin 18 + 13 | All Others | 57 | + 17 | | + 19 | |
| District 4 | District 3 | 35 | + 6 | 4 7 | +13 | |
| Dallas 33 $+26$ -15 $+43$ Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 23 $+46$ -1 $+56$ All Others 109 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+15$ District 6 42 $+38$ $+9$ $+33$ El Paso 22 $+37$ $+10$ $+31$ All Others 20 $+44$ $+6$ $+51$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+1$ $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Other | District 4 | 200 | +30 | -10 | + 44. | |
| Ft. Worth 24 $+35$ -9 $+47$ Sherman 11 -3 $+5$ $+13$ Waco 23 $+46$ -1 $+56$ All Others 109 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+15$ District 6 42 $+38$ $+9$ $+33$ El Paso 22 $+37$ $+10$ $+31$ All Others 20 $+444$ $+00$ $+31$ All Others 20 $+444$ $+00$ $+31$ All Others 20 $+444$ $+00$ $+31$ Angelo 11 $+26$ $+1$ $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others | Dallas | 33 | +26 | - <u>1</u> 5 | +43 | |
| Sherman 11 -3 +5 +13 Waco 23 +46 -1 +56 All Others 109 +33 +8 +39 District 5 93 +13 +5 +15 District 6 42 +38 +9 +33 El Paso 22 +37 +10 +31 All Others 20 +44 +00 +51 District 7 52 +22 +9 +21 San Angelo 11 +26 +1 +29 Fredericksburg 10 -3 +12 +2 All Others 31 +24 +21 +15 District 8 160 +19 +1 +30 Austin 18 +13 +10 +24 San Antonio 48 +23 -4 +36 All Others 94 +15 +10 +16 District 9 114 +10 -2 +21 Beaumont 44 +6 -6 +19 <td< td=""><td>Ft. Worth</td><td>24</td><td>+35</td><td>- °9</td><td>+47</td></td<> | Ft. Worth | 24 | +35 | - °9 | +47 | |
| Waco 23 $+46$ -1 $+56$ All Others 109 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+15$ District 6 42 $+38$ $+9$ $+33$ El Paso 22 $+37$ $+10$ $+31$ All Others 20 $+44$ $+60$ $+51$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+1$ $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+44$ -6 $+43$ All Others | Sherman | 11 | - 3 | +5 | +13 | |
| All Others 109 $+33$ $+8$ $+39$ District 5 93 $+13$ $+5$ $+15$ District 6 42 $+38$ $+9$ $+33$ El Paso 22 $+37$ $+10$ $+31$ All Others 20 $+44$ $+\infty$ $+51$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+1$ $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+17$ $+7$ | Waco | 23 | +46 | - 1 | +56 | |
| District 5 93 $+13$ $+5$ $+15$ District 6 42 $+38$ $+9$ $+33$ El Paso 22 $+37$ $+10$ $+31$ All Others 20 $+44$ $+0^\circ$ $+51$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+1$ $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ | All Others | 109 | +33 | + 8 | +39 | |
| District 6 42 $+38$ $+9$ $+33$ El Paso 22 $+37$ $+10$ $+31$ All Others 20 $+44$ $+60$ $+51$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+1$ $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 -6 $+17$ $+7$ District 10 <td>District 5</td> <td></td> <td>+13</td> <td>+5</td> <td>+15</td> | District 5 | | +13 | +5 | +15 | |
| El Paso 22 $+37$ $+10$ $+31$ All Others 20 $+44$ $+\infty$ $+51$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+1$ $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 -6 -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 -6 $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10-A </td <td>District 6</td> <td> 42</td> <td>+38</td> <td>+ 9</td> <td>+ 33</td> | District 6 | 42 | +38 | + 9 | + 33 | |
| All Others 20 $+44$ $+60$ $+51$ District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+1$ $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10 25 $+34$ -4 $+38$ District 10 | El Paso | 22 | +37 | + 10 | +31 | |
| District 7 52 $+22$ $+9$ $+21$ San Angelo 11 $+26$ $+1$ $+29$ Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10 25 $+34$ -4 $+38$ District 10 25 $+34$ -4 $+38$ District 10 | All Others | 20 | +44 | + w | + 51 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | District 7 | 52 | +22 | + 9 | +21 | |
| Fredericksburg 10 -3 $+12$ $+2$ All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10-A 43 $+36$ $+21$ $+22$ Brownsville 11 $+31$ $+12$ $+20$ All Others 32 $+39$ $+95$ $+94$ | San Angelo | 11 | +26 | + 1 | +29 | |
| All Others 31 $+24$ $+21$ $+15$ District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10 25 $+34$ -4 $+38$ District 10-A 43 $+36$ $+21$ $+22$ Brownsville 11 $+31$ $+12$ $+20$ | Fredericksburg | 10 | - 3 | +12 | +2 | |
| District 8 160 $+19$ $+1$ $+30$ Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10 25 $+34$ -4 $+38$ District 10 25 $+34$ -4 $+38$ District 10 11 $+31$ $+12$ $+20$ All Others 32 $+39$ $+25$ $+24$ | All Others | 31 | +24 | +21 | + 15 | |
| Austin 18 $+13$ $+10$ $+24$ San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10 11 $+31$ $+12$ $+20$ All Others 32 $+39$ $+25$ $+24$ | District 8 | 160 | + 19 | +1 | +30 | |
| San Antonio 48 $+23$ -4 $+36$ All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10 25 $+34$ -4 $+38$ District 10 25 $+34$ -4 $+38$ District 10 25 $+34$ -4 $+22$ Brownsville 11 $+31$ $+12$ $+20$ All Others 32 $+39$ $+95$ $+94$ | Austin | 18 | + 13 | +10 | +24 | |
| All Others 94 $+15$ $+10$ $+16$ District 9 114 $+10$ -2 $+21$ Besumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10-A 43 $+36$ $+21$ $+22$ Brownsville 11 $+31$ $+12$ $+20$ All Others 32 $+39$ $+95$ $+94$ | San Antonio | 48 | +23 | - 4 | +36 | |
| District 9 114 $+10$ -2 $+21$ Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10-A 43 $+36$ $+21$ $+22$ Brownsville 11 $+31$ $+12$ $+20$ All Others 32 $+39$ $+25$ $+24$ | All Uthers | , 94 | +15 | + 10 | +16 | |
| Beaumont 11 $+41$ -10 $+50$ Houston 44 $+6$ -6 $+19$ Port Arthur 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10-A 25 $+34$ -4 $+38$ District 10-A 25 $+34$ -4 $+32$ Brownsville 11 $+31$ $+12$ $+20$ All Others 32 $+39$ $+25$ $+94$ | District 9 | 114 | + 10 | - <u>2</u> | | |
| Housian 44 + 6 - 6 + 19 Port Arthur 10 + 39 + 6 + 43 All Others 50 + 6 + 17 + 7 District 10 25 + 34 - 4 + 38 District 10-A 43 + 36 + 21 + 22 Brownsville 11 + 31 + 12 + 20 All Others 32 + 39 + 95 + 94 | | 11 | +41 | ~ 10 | + 50 | |
| All Others 10 $+39$ $+6$ $+43$ All Others 50 $+6$ $+17$ $+7$ District 10 25 $+34$ -4 $+38$ District 10-A 43 $+36$ $+21$ $+22$ Brownsville 11 $+31$ $+12$ $+20$ All Others 32 $+39$ $+95$ $+94$ | Dowt Authon | 10 | - D - 20 | - 0 | + 19 | |
| All Others 30 $+0$ $+11$ $+7$ District 10 25 $+34$ -4 $+38$ District 10-A 43 $+36$ $+21$ $+22$ Brownsville 11 $+31$ $+12$ $+20$ All Others 32 $+39$ $+25$ $+94$ | All Others | 10 50 | 1 2 | + 0 | + 43 | |
| District $10 - A = 23 + 34 + 24 + 38$ District $10 - A = 43 + 36 + 21 + 22$ Brownsville = 11 + 31 + 12 + 20 All Others = 32 + 39 + 25 + 24 | District 10 | 00 | + 24 | · <u>- 1</u> | T / | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | District 10 | | - 34 | — 4 – 91 | ⊤ 38 ⊥ 99 | |
| All Others $32 + 39 + 25 + 24$ | Brownsville | 10 | | + 12 | . <u>+</u> 26 | |
| | All Others | 32 | +30 | + 25 | + 20 | |

⁽¹⁾Change of less than .5%. Norg: Propared from reports of independent retail stores to the Burean Business Research, coöperating with the U.S. Bureau of the Censue. of

PERCENTAGE CHANGES IN CONSUMPTION OF ELECTRIC POWER

| | March, 1943 from March, 1942 | March, 1943 from Feb., 1943 | Year 1943 from Year 1942 |
|-------------|------------------------------------|-----------------------------------|--------------------------------|
| Commercial | + 22.6 | - 2.4 | ± 17.0 |
| Industrial | + 21.8 | + 8.9 | + 14.9 |
| Residential | + 10.2 | - 6.0 | + 7.4 |
| All Others | +182.1 | + 16.4 | +153.2 |
| TOTAL | + 40.9 | - 6.5 | + 31.7 |

Prepared from reports of 11 electric power companies to the Burcau of Business Research.

PETROLEUM

DAILY AVERAGE PRODUCTION

(In Barrels)

| | March, 1943 | March, 1942 | Feb., 1943 |
|--------------------|----------------|----------------|---------------|
| Coastal Texas* | 353,250 | 262,000 | 320.450 |
| East Central Texas | 99,800 | 86,000 | 100,550 |
| East Texas | 323,400 | 312,300 | 325.100 |
| North Texas | 136,800 | 146,450 | 135,350 |
| Panhandle | 88,600 | 84,800 | 88,900 |
| Southwest Texas | 172,900 | 187,450 | 162,150 |
| West Texas | 218,100 | 213,250 | 210,700 |
| STATE | 1,392,850 | 1,292,250 | 1,343,200 |
| UNITED STATES | 3,898,750 | 3,740,300 | 3,867,900 |

Gasoline sales as indicated by taxes collected by State Comp-troller were: February, 1943, 95,327,649 gallons; February, 1942, 106,415,000 gallons; January, 1943, 87,375,064 gallons.



Nore: From American Petroleum Institute.

See accompanying map showing the oil producing districts of Texas.



CEMENT

(In Thousands of Barrels)

| | Feb., 1943 | Feb., 1942 | Jan., 1943 |
|-------------------|---------------|---------------|---------------|
| Texas Plants | | | |
| Production | 687 | 878 | 809 |
| Shipments | 929 | 811 | 668 |
| Stocks | 630 | 809 | 872 |
| United States | - | • | |
| Production | 10,293 | 10.813 | 12.560 |
| Shipments | 8,656 | 8,285 | 8.641 |
| Stocks | 23,005 | 25,714 | 21.347 |
| Capacity Operated | 54.0% | 57.0% | 60.0% |

Note: From U.S. Department of Interior, Bureau of Mines.

BUILDING PERMITS

| · · · | Mar., 1943 | Mar., > 1942 | Feb., 1943 | Year 1943 | Year 1942 |
|----------------|--------------------|-----------------|---------------|--------------|--------------------|
| Abilene | \$ 9,940 | \$ 84,535 | \$ 6,647 | \$ 20,592 | \$ 284,654 |
| Austin | 47,228 | 447,425 | 18,772 | 79,372 | 984,947 |
| Beaumont | 44,376 | 1,370,767 | 1,620,890 | 1,684,093 | 1,856,936 |
| Cleburne | 2,400* | 1,650* | † | t | * |
| Coleman | 0 | 3,700 | 0 | 0 | 100,750 |
| Corpus Christi | 352,963 | 262,382 | 18,814 | 510,286 | 1,487,963 |
| Corsicana | 2,385 | 99,775 | 1,430 | 4,785 | 112,025 |
| Dallas | 135,896 | 659,894 | 149,604 | 445,891 | 3,998,630 |
| Denton | 2,675 | 3,100 | 330 | 3,605 | 23,005 |
| Edinburg | 685 | 8,420 | 5,059 | † | 7 |
| El Paso | . 61,352 | 933,758 | 32,468 | 134,459 | 1,132,417 |
| Fort Worth | 89,461 | 834,094 | 357,355 | 630,777 | 1,775,021 |
| Galveston | 224,192 | 237.715 | 14,446 | 254,059 | 580,338 |
| Harlingen | 2.265 | 36,900 | • • • • • • | 2,615 | 55,975 |
| Houston | 3.429.310 | 1.486.210 | 63,105 | 3,617,980 | 4,367,635 |
| Iacksonville | . 700 | 5.300 | 1,100 | 2,300 | 11,800 |
| Kenedy | 0 | 0 | 0 | · 0 | 1,040 |
| Kerwille | 673 | 12.625 | 380 | 1.498 | 25,725 |
| Laredo | 5.329 | 23,485 | 5.372 | 14.74I | 30,835 |
| Lubhock | 15.647 | 851,453 | 15.875 | 44.217 | 1.600.031 |
| Lufkin | 650 | 50,101 | 1.072 | 7,770 | 66.206 |
| McAllen | 11 635 | 43,346 | 2,305 | 16,418 | 90.823 |
| Marchall | 275,056 | 45,010 | 5,673 | 282,904 | 124,758 |
| Midland | 1 325 | 82 130 | 3 525 | 5.385 | 215.020 |
| New Brannfolg | 525 | 5 295 | 1,600 | 3,879 | 21.604 |
| Palactina | 2 590 | 3 480 | 6.915 | 18,704 | 14,669 |
| Pampa | 111,300 | 14,050 | 49,000 | 160.300 | 135,550 |
| Ponis | 12,530 | 35 775 | 49,250 | 70,960 | 90,333 |
| Plainviour | 800 | 1 757 | 7.455 | 9,230 | 5,757 |
| Dout Arthur | - 12 010 | 14 347 | 8 840 | 27 405 | 148 020 |
| San Antania | 224 872 | 776 225 | 85,390 | 436.666 | 2.079.798 |
| San Antonio | 17 071 | 82 284 | 8,499 | 35,887 | 137,356 |
| Suchas | | 7,000 | 150 | 650 | 13,350 |
| Substation | 2 205 | 13,030 | 2 010 | 8 755 | 30 300 |
| T-las | 2,200 | 55 719 | 2,010 | 8 750 | 148 735 |
| I yiti | 69,908 | 179 398 | 13 596 | 121 374 | 460 700 |
| Wishita Falla | - 02(230) 6 089 | 144,155 | 9.420 | 21 556 | 994 951 |
| WIGHHA FAIIS | | | | | Z (Z / T / A) / I |

Norz: Compiled from reports from Texas chambers of commerce to the Bureau of Business Research. *Not included in total. †Not available.

MARCH, 1943, CARLOAD MOVEMENTS OF POULTRY AND EGGS

Shipments from Texas Stations

| | Cars of Poultry | | | | Cars of Eggs | | | | Sh.17 | | | |
|------------|-----------------|-----------------|--------|------|--------------|------|------|------|-------|------------------|------|---------|
| | Chie | kens | Tur | keys | S | hell | Fre | zen | Ð | ried | Equi | valent* |
| | | Max | rch 🦟 | | | | | Μ | arch | | | |
| | 1943 | 1942 | 1943 | 1942 | 1948 | 1942 | 1943 | 1942 | 1943 | 1942 | 1943 | 1942 |
| TOTAL | -5 | $13\frac{1}{2}$ | 1. | 41/2 | 35 | 9 | 52 | 158 | 72 | $122\frac{1}{2}$ | 715 | 1,305 |
| Intrastate | 1 | 0 | 0 | 0 | 29 | 4 | 27 | 96 | 4 | $24\frac{1}{2}$ | 115 | 392 |
| Interstate | 4 | 131/2 | 1 | 41/2 | 6 | 5 | 25 | 62 | 68 | 98 | 600 | 913 |
| N Re | ceipts | at Texa | s Stat | ions | | | | | | | | |
| TOTAL | 0 | 3/2 | 0 | 1⁄2 | 29 | 21 | 34 | 68 | 2 | 29 | 113 | 389 |
| Intrastate | 0 | 1/2 | 0 | 1/2 | 21 | 14 | 31 | 60 | 2 | 29 | - 99 | 366 |
| Interstate | 0 | 0 | 0 | 0 | 8 | Ż. | 3 | 8 | 0 | Ð | 14 | 23 |

•Dried eggs and frozen eggs are converted to a shell-egg equivalent on the following basis: I rail carload of dried eggs=8 carloads of shell eggs, and I carload of frozen eggs=2 carloads of shell eggs,

Nors: These data furnished to the Division of Agricultural Statistics, D:A.E., by railroad officials through agents at all stations which originate and receive carload shipments of poultry and eggs. The data are complied by the Bureau of Business Research.

POSTAL RECEIPTS

| | Mar., 1943 | Mar., 1942 | Feb., 1943 | Year 1943 | Year 1942 |
|----------------|---------------|---------------|------------------|-------------------|------------------------|
| Abilene | \$ 41,638 | \$ 35,042 | \$ 37.124 | \$ 126.376 | \$ 94.684 |
| Amarillo | 49,911 | 33,756 | 47,592 | 147,732 | 99,635 |
| Austin | 88,872 | 79,049 | 77.137 | 247,638 | 233 088 |
| Beaumont | 41,127 | 31,743 | 36,909 | 116 163 | 09 044 |
| Big Spring | 10,516 | 6.450 | 8,937 | 29.212 | 10 003 |
| Brownwood | 31,171 | 27.406 | 28.201 | 86,454 | 64 195 |
| Childress | 4,461 | 2,820 | 3,559 | 8,691 | 11 555 |
| Coleman | 3,529 | 3.269 | 3,872 | 11,356 | 0 992 |
| Corpus Christi | 54,414 | 45.218 | 47,969 | 149 443 | 190 460 |
| Corsicana | 8,235 | 6.534 | 7 386 | 23,800 | 129,409 |
| Dallas | 485,740 | 414,790 | 447.624 | 1 354 054 | 1 1 2 0 3 0 0 |
| Del Rio | 5,252 | 3.510 | 4144 | 14,452 | 1,102,000 |
| Denison | 9,469 | 7.166 | 7,826 | 25 381 | 20,220 |
| Denton | 11,552 | 8,494 | 8,003 | 30 783 | 20,102 |
| Edinburg | 3.676 | 3.115 | 3 194 | 10 771 | 20,215 |
| El Paso | 88,690 | 66,999 | 76 228 | 256 320 | 2,400 309.070 |
| Fort Worth | 222,502 | 170.254 | 186 031 | 506.604 | 192,910 |
| Galveston | 43,416 | 40,996 | 42 591 | 133.053 | 400,020 |
| Gladewater | 3.321 | 3,449 | 3,080 | 31.037 | 110,922 |
| Harlingen | 10,540 | 7,956 | 9,000 | 20,925 | 9,000 |
| Houston | 334.633 | 292,651 | 290.617 | 00,200 | 20,540 |
| Kenedy | 1.966 | 1.247 | 1 770 | 5/76/ | 094,104 |
| Kerrville | 3.322 | 2,688 | 9 004 | 0,70% | 4,198 |
| Lubbock | 31,197 | 23,832 | 2,22 T 97 773 | 06 007 | 8,420 |
| Lufkin | 5.604 | 5.444 | 5 701 | 00,007 | 70,537 |
| McAllen | 5.620 | 4,891 | 5 655 | 10,004 | 10,555 |
| Marshall | 9.261 | 7,861 | 7 794 | 95 620 | 10,485 |
| Palestine | 6.701 | 5,800 | 5 037 | 20,000 | 21,490 |
| Pampa | 9.291 | 6 853 | 7 880 | 20,293 | 18,228 |
| Paris | 18.885 | 7.265 | 17 256 | 20,900 | 20,901 |
| Plainview | 5.204 | 4,570 | 4,500 | 14 905 | 20,013 |
| Port Arthur | 24,499 | 16,143 | 21 408 | 67 216 | 15,082 |
| San Angelo | 17,781 | 14 314 | 36 749 | 59 027 | 48,075 |
| San Antonio | 253,305 | 168 440 | 205 382 | 02,901 601 657 | 43,037 |
| Sherman | 11.057 | 0,300 | 0.043 | 21 970 | 487,863 |
| Snyder | 1.819 | 1 693 | 1.635 | D1,4(8 E 040* | 20,592 |
| Sweetwater | 7.459 | 5 674 | 5 050 | 3,040 | T |
| Tyler | 75.013 | 16.318 | 95 ALA | 21,033 | 16,791 |
| Waco | 42.078 | 36,490 | 41 075 | 140,2/9 | 49,091 |
| Wichita Falls | 41,167 | 49.951 | 38 501 | 141,210 | 105,365 |
| TOTAL | \$2,123,894 | \$1,679,531 | \$1,831,495 | \$5,836,972 | 141,518 \$4,821,718 |

Norn: Commiled from reports from Texas chambers of commerce to the Bureau of Business Research. *Not included in total, †Not available.

TEXAS COMMERCIAL FAILURES

| | March, | March, | March, Fob., | | Juarter |
|-----------------|--------|--------|--------------|------|---------|
| | 1943 | 1942 | 1943 | 1943 | 1942 |
| Number | | 12 | 0 | 7 | 46 |
| Liabilities† | \$10 | \$116 | 0 | \$44 | \$926 |
| Assets† | 8 | 60 | 0 | 23 | 730 |
| Average Liabili | tics | | | | •••• |
| per failure† | 10 - | 9 | 0 | 6 | 20 |

fin thousands. Nors: From Dun and Bradstreet, Inc.

LUMBER

(In Board Feet)

| Southern Pine Mills: | Mareh, 1943 | March, 1942 | Feb., 1943 |
|---------------------------------------|----------------|----------------|---------------|
| Average Weekly Production per unit | 245,985 | 298,315 | 269,219 |
| per unit | 270,591 | 346,648 | 289,063 |
| unit, end of month | 1,461,361 | 1,762,344 | 1,577,290 |

Note: From Southern Pine Association.

MARCH CREDIT RATIOS IN TEXAS DEPARTMENT AND APPAREL STORES

(Expressed in Per Cent)

| | Number of Stores Reporting | Ratio of Credit Sales to Not Sales 1943 1942 | | Ratio of Collections to Outstandings 1943 1942 | | Ratio of Credit Salaries to Credit Sales 1943 1942 | |
|--|-------------------------------------|---|------|---|------|---|-----|
| All Stores | 52 | 50.9 | 64.3 | 61.8 | 40.9 | 1.2 | 1.0 |
| Stores Grouped by Cities: | | | | | | | |
| Austin | . 6 | 44.1 | 57.5 | 70.0 | 47.7 | 1.4 | 1.1 |
| Dallas | . 6 | 64.1 | 75.9 | 61.2 | 42.2 | 0.8 | 0.7 |
| El Paso | 3 | 43.5 | 55.3 | 69.1 | 40.1 | 1.3 | 1.3 |
| Fort Worth | 5 | 47.8 | 62.4 | 62;2 | 41.0 | 1.3 | 1.2 |
| Houston | . 8 | 48.7 | 63.6 | 55.2 | 40.0 | 1.6 | 1.3 |
| San Antonio | . 4 | 38.9 | 53.3 | 63.4 | 41.2 | 1.6 | 1.5 |
| Waco | . 5 | 50.5 | 61.6 | 60.1 | 32.0 | 1.2 | 1.3 |
| All Others | . 15 | 44.1 | 56.2 | 70.2 | 39.8 | 1.3 | 1.2 |
| Stores Grouped According to Type of Store: | | | | | | | |
| Department Stores (Annual Volume Over \$500,000) | _ 17 | 50.0 | 63.6 | 63.4 | 41.7 | 1.3 | 1.1 |
| Department Stores (Annual Volume under \$500,000) | . 9 | 43.1 | 53.9 | 65.3 | 38.4 | 1.4 | 1.3 |
| Dry-Goods-Apparel Stores | _ 3 | 46.8 | 57.5 | 66.6 | 40.6 | 1.8 | 1.8 |
| Women's Specialty Shops | _ 12 | 57.1 | 67.9 | 57.7 | 38.2 | 0.8 | 0.5 |
| Men's Clothing Stores | . 11 | 49.3 | 67.7 | 60.3 | 41.8 | 1.5 | 1.3 |
| Stores Grouped According to Volume of Net Sales During 1942: | | | | | | | |
| Over \$2,500,000 | 13 | 46.3 | 60.1 | 64.9 | 41.1 | 1.3 | 1.2 |
| \$2,500,000 down to \$1,000,000 | - 8 | 48.6 | 62.6 | 59.7 | 41.5 | 1.3 | 1.1 |
| \$1.000,000 down to \$500,000 | . 6 | 43.4 | 55.8 | 65.9 | 43.6 | 1.7 | 1.2 |
| Less than \$500,000 | . 25 | 38.2 | 52.7 | 66,3 | 39.7 | 1.9 | 1.7 |

Nors: The ratios shown for each year, in the order in which they appear from left to right are obtained by the following computations: (1) Credit Sales divided by Net Sales. (2) Collections during the month divided by the total accounts unpaid on the first of the month. (3) Salaries of the credit department divided by credit sales. The data are reported to the Bureau of Business Research by Texas retail stores.

| | | | | TEX | AS C | HARTEF | tS - | | |
|--|-----------|------------|------------|--|-------------------|-------------------|---------------|--------------------|---------------------|
| COMMODITY P | RICES | | | . ' 1 | March, 1943 | March, 1942 | Feb., 1943 | First (1943 | Quarter 1942 |
| Wholesale Prices: | ır., 1943 | Mar., 1942 | Feb., 1943 | Domestic Corporations: Capitalization* Number | 1,576† 39 | 742 89 | 239 20 | 2,142 89 | 3,208 295 |
| U.S. Bureau of Labor Statistics (1926=100%) | 103.5 | 97.6 | 102.5 | Classification of new corporations: | | | | | |
| Farm Prices: U.S. Dept. of Agriculture (1910– 1914=100%) | • | 146.0 | 178.0 | Banking-Finance Manufacturing Merchandising | 1 5 7 | 1 4 11 | 0 4 7 | 2 12 18 | 2 19 29 |
| U.S. Bureau of Labor Statistics (1926=100%) Retail Prices: | 122.8 | 102.8 | 119.0 | Public Service Real Estate Building Transportation | 5 0 14 1 | 4 0 55 4 | | 10 1 26 5 | 1 1 162 14 |
| Food (U.S. Bureau of Labor Statis- tics (1935-1939=100%) | ŧ | 118.6 | 133,6 | All Others Number capitalized at lcss | 6 | 10 54 | 4 4 | .15 | 51 |
| tions January, 1931=100%) | 113.1 | 112.5 | 113,1 | Number capitalized at \$100,000 or more | 2 | 54 2 | 8 0 | 54 2 | 100 |

*Not available. †Delayed by changes which must be made in the food index because of rationing and current short supplies of ordinary foods.

Foreign Corporations

(Number) ...

*In thousands. †Capital Stock Subscribed of one Corp. was \$1,000,000, Nozz: Compiled from records of the Secretary of State.

.....

13

8

16

47

动动的 合数 动脉

| DAIRY | PRODUCTS | MANUFACTURED | IN | PLANTS | IN | TEXAS |
|-------|----------|--------------|----|--------|----|-------|
| | 1 | | | | | |

| • | | | | | | · · | · · · | | | | |
|----------------------------|---|--|--|--|--|---|---|--|---|---|---|
| Feb. | March | April | May | June | July | · Aug. | Sept. | Oct. | Nov. | Dec. | TOTAL |
| • • | - | | | | | | • • • | | | · . | |
| 3,001 2,076 2,109 | 2,724 2,131 2,392 | 3,311 3,138 | 4,396 3,556 | 4,353 3,166 | 3,740 4,113 |) 3,735 2,867 | 3,640 2,513 | 3,343 2,608 | 2,659 2,301 | $2,341 \\ 2,211$ | 38,066 32,048 |
| | | | • | | | ·. | . • • • • | s | | | |
| 1,218 700 1,262 | $1,408 \\ 1,014 \\ 434$ | 1,312 570 | 1,812 752 | 2,305 893 | 2,294 904 | 2,190 846 | 1,838 686 | $1,585 \\ 460$ | 1,323 259 | $1,046 \\ 205$ | 16,089 6,486 |
| | | | | | | | | | | | |
| 1,025 1,302 590 | 1,108 1,644 737 | 2,204 1,050 | 2,756 1,215 | 2,674 1,129 | 2,559 1,119 | 1,989 1,025 | 1,649 866 | 1,184 852 | 713 718 | 735 641 | 20,717 10,496 |
| | | | | | | | | | | | |
| 90,422 77,913 57,139 | 88,511 83,621 67,456 | 48,827 89,641 | 148,707 104,323 | 145,064 97,562 | 145,868 97,075 | 131,841 89,185 | 119,279 76,165 | 104,273 73,444 | 83,502 60,119 | 72,806 55,872 | 1,237,136 922,656 |
| | Feb. 3,001 2,076 2,109 1,218 700 1,262 1,025 1,302 590 90,422 77,913 57,139 | Feb. March 3,001 2,724 2,076 2,131 2,109 2,392 1,218 1,408 700 1,014 1,262 434 1,025 1,108 1,302 1,644 590 737 90,422 88,511 77,913 83,621 57,139 67,456 | Feb. Maroh April 3,001 2,724 3,311 2,076 2,131 3,311 2,109 2,392 3,138 1,218 1,408 1,312 1,225 1,014 1,312 1,262 434 570 1,025 1,108 1,302 1,302 1,644 2,204 590 737 1,050 90,422 88,511 77,913 77,139 67,456 89,641 | Feb. Maroh April May 3,001 2,724 3,311 4,396 2,076 2,131 3,311 4,396 2,109 2,392 3,138 3,556 1,218 1,408 1,312 1,812 1,262 434 570 752 1,025 1,108 1,302 1,644 2,204 2,756 590 737 1,050 1,215 90,422 88,511 77,913 83,621 48,827 148,707 57,139 67,456 89,641 104,323 104,323 | Feb.MarchAprilMayJune $3,001$ $2,724$ $2,076$ $2,131$ $3,311$ $4,396$ $4,353$ $2,109$ $2,392$ $3,138$ $3,556$ $3,166$ $1,218$ $1,408$ $1,312$ $1,812$ $2,305$ $1,262$ 434 570 752 893 $1,025$ $1,108$ $1,302$ $1,644$ $2,204$ $2,756$ $2,674$ 590 737 $1,050$ $1,215$ $1,129$ $90,422$ $88,511$ $77,913$ $83,621$ $48,827$ $148,707$ $145,064$ $57,139$ $67,456$ $89,641$ $104,323$ $97,562$ | Feb.MarchAprilMayJuneJuly $3,001$ $2,724$ $2,076$ $2,131$ $3,311$ $4,396$ $4,353$ $3,740$ $2,109$ $2,392$ $3,138$ $3,556$ $3,166$ $4,113$ $1,218$ $1,408$ $1,812$ $2,305$ $2,294$ $1,262$ 434 570 752 893 904 $1,025$ $1,108$ $1,215$ $1,215$ $1,129$ $1,302$ $1,644$ $2,204$ $2,756$ $2,674$ $2,559$ 590 737 $1,050$ $1,215$ $1,129$ $1,119$ $90,422$ $88,511$ $77,913$ $83,621$ $48,827$ $148,707$ $145,064$ $145,868$ $57,139$ $67,456$ $89,641$ $104,323$ $97,562$ $97,075$ | Feb.MarchAprilMayJuneJulyAug. $3,001$ $2,724$ $2,076$ $2,131$ $3,311$ $4,396$ $4,353$ $3,740$ $3,735$ $2,109$ $2,392$ $3,138$ $3,556$ $3,166$ $4,113$ $2,867$ $1,218$ $1,408$ $1,312$ $1,812$ $2,305$ $2,294$ $2,190$ $1,262$ 434 570 752 893 904 846 $1,025$ $1,108$ $1,302$ $1,644$ $2,204$ $2,756$ $2,674$ $2,559$ $1,989$ 590 737 $1,050$ $1,215$ $1,129$ $1,119$ $1,025$ $90,422$ $88,511$ $7,139$ $83,621$ $48,827$ $148,707$ $145,064$ $145,868$ $131,841$ $57,139$ $67,456$ $89,641$ $104,323$ $97,562$ $97,075$ $89,185$ | Feb.MarchAprilMayJuneJulyAug.Sept. $3,001$ $2,724$ $2,076$ $2,131$ $3,311$ $4,396$ $4,353$ $3,740$ $3,735$ $3,640$ $2,109$ $2,392$ $3,138$ $3,556$ $3,166$ $4,113$ $2,867$ $2,513$ $1,218$ $1,408$ $1,312$ $1,812$ $2,305$ $2,294$ $2,190$ $1,838$ $1,262$ 434 570 752 893 904 346 686 $1,025$ $1,108$ $1,302$ $1,644$ $2,204$ $2,756$ $2,674$ $2,559$ $1,989$ $1,649$ 590 737 $1,050$ $1,215$ $1,129$ $1,119$ $1,025$ 866 $90,422$ $88,511$ $77,913$ $83,621$ $48,827$ $148,707$ $145,064$ $145,868$ $131,841$ $119,279$ $57,139$ $67,456$ $89,641$ $104,323$ $97,562$ $97,075$ $89,185$ $76,165$ | Feb.MarchAprilMayJuneJulyAug.Sept.Oct. $3,001$ $2,724$ $2,076$ $2,131$ $3,311$ $4,396$ $4,353$ $3,740$ $3,735$ $3,640$ $3,343$ $2,109$ $2,392$ $3,138$ $3,556$ $3,166$ $4,113$ $2,367$ $2,513$ $2,608$ $1,218$ $1,408$ $1,312$ $1,812$ $2,305$ $2,294$ $2,190$ $1,838$ $1,585$ $1,262$ 434 570 752 893 904 346 686 460 $1,025$ $1,108$ $1,302$ $1,644$ $2,204$ $2,756$ $2,674$ $2,559$ $1,989$ $1,649$ $1,184$ 590 737 $1,050$ $1,215$ $1,129$ $1,119$ $1,025$ 866 852 $90,422$ $88,511$ $77,913$ $83,621$ $48,827$ $148,707$ $145,064$ $145,868$ $131,841$ $119,279$ $104,273$ $57,139$ $67,456$ $89,641$ $104,323$ $97,562$ $97,075$ $89,185$ $76,165$ $73,444$ | Feb.MurchAprilMayJuneJulyAug.Sept.Oct.Nov. $3,001$ $2,724$ $2,076$ $2,131$ $3,311$ $4,396$ $4,353$ $3,740$ $3,735$ $3,640$ $3,343$ $2,659$ $2,109$ $2,392$ $3,138$ $3,556$ $3,166$ $4,113$ $2,867$ $2,513$ $2,608$ $2,301$ $1,218$ $1,408$ $1,014$ $1,312$ $1,812$ $2,305$ $2,294$ $2,190$ $1,838$ $1,585$ $1,323$ $1,262$ 434 570 752 893 904 846 686 460 259 $1,025$ $1,108$ $1,215$ $1,129$ $1,119$ $1,025$ 866 352 718 $90,422$ $88,511$ $77,913$ $83,621$ $48,827$ $148,707$ $145,064$ $145,868$ $131,841$ $119,279$ $104,273$ $83,502$ $57,139$ $67,456$ $89,641$ $104,323$ $97,562$ $97,075$ $89,185$ $76,165$ $73,444$ $60,119$ | Feb.MarchAprilMayJuneJulyAug.Sept.Oct.Nov.Dec. $3,001$ $2,724$ $3,311$ $4,396$ $4,353$ $3,740$ $3,735$ $3,640$ $3,343$ $2,659$ $2,341$ $2,109$ $2,392$ $3,138$ $3,556$ $3,166$ $4,113$ $2,867$ $2,513$ $2,608$ $2,301$ $2,211$ $1,218$ $1,408$ $1,312$ $1,812$ $2,305$ $2,294$ $2,190$ $1,838$ $1,585$ $1,323$ $1,046$ $1,262$ 434 570 752 893 904 346 686 460 259 205 $1,025$ $1,108$ $1,215$ $1,129$ $1,119$ $1,025$ 866 852 718 641 $90,422$ $88,511$ $77,71$ $1,050$ $1,215$ $1,129$ $1,119$ $1,025$ 866 852 718 641 $90,422$ $88,511$ $77,913$ $83,621$ $48,827$ $148,707$ $145,064$ $145,868$ $131,841$ $119,279$ $104,273$ $83,502$ $72,806$ $57,139$ $67,456$ $89,641$ $104,323$ $97,562$ $97,075$ $89,185$ $76,165$ $73,444$ $60,119$ $55,872$ |

*Estimates of production made by the Bureau of Business Research,

†Milk equivalent of dairy products was calculated from production data by the Bureau of Business Research.

Nors: 10-Year Average production of creamery butter, ice cream and American Cheese based on data from the Division of Agricultural Statistics, R.A.E.

Series II

PROGRESS REPORT NO. 1

Comparison of Family Income and Expenditures for Five Principal Budget Items in Twenty Texas Communities 1941 and 1942

Released April, 1943-Price One Dollar for Series Limited Supply of Copies Available

This is the first of a series of progress reports to be issued, similar to Series I released in 1942, based on the cost-of-living surveys made in twenty Texas communities during the fall of 1941 and fall of 1942, giving comparison of expenditures in the two years for food, rent and house payments, clothing, utilities, and car costs-by race and income-for Texas families in these communities.

LIST OF PUBLICATIONS

- 1. The Possibilities of Cotton Manufacturing in Texas; by Charles J. Rudolph Grossman, Industrial Engineer; Research Monograph No. 1; August 22, 1928. Price \$1.00.
- A Market Analysis of Cattle Industry in Texas; by George M. Lewis, Assistant Director, Department of Marketing, Institute of American Meat Packers, formerly in charge of Livestock Marketing Studies in the Burcau of Business Research, The University of Texas; Research Monograph No. 2; September 22, 1928. Price \$1.00.
- 3. What Place Has the Advertising Agency in Market Research; by William J. Reilly, Marketing Specialist and Associate Professor of Business Administration; Research Monograph No. 3; April 22, 1929. Price \$1.00.
- Methods for the Study of Retail Relationships; by William J. Reilly, Marketing Specialist and Associate Professor of Business Administration; Research Monograph No. 4; November 22, 1929. Price \$1.00.
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CONTENTS

| | PAG | E |
|---|--|----|
| Business Review and Prospect, F. A. Buechel | | 3 |
| Wealth-Producing Industries in Texas Elmer H. Johnson | | 5 |
| World Demand for United States Grown Cotton A B Cox | 1 | ĭ |
| " or a Demana for Onicea Diales Orolon Collon, A. D. Cox | | - |
| LIST OF CHARTS | | |
| Indexes of Building Permits in Texas, 1929-1942 | State State | 1 |
| Indexes of Business Activity in Texas | | 2 |
| LIST OF TABLES | State Con | |
| Puilding Domite | Q TAK ON 1 | 5 |
| Carload Movement of Poultry and Fage | | 5 |
| Cement | 19 Jan 9 | 14 |
| Charters | 1 2 10 | 17 |
| Commercial Failures | <u> </u> | 16 |
| Commodity Prices | 1 | 17 |
| Cotton Balance Sheet | | 11 |
| Credit Ratios in Texas Retail Stores | | 17 |
| Employment and Day Balls in Texas | | 10 |
| Lumber | | 6 |
| Percentage Changes in Consumption of Electric Power | | 4 |
| Petroleum |] | 14 |
| Postal Receipts | | 16 |
| Retail Sales of Independent Stores in Texas by Class of Establishment | I | 13 |
| Retail Sales of Independent Stores in Texas by Districts | <u> </u> | 14 |
| Snipments of Livestock | la la construcción de la const | 13 |