# Texas Business Review 

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# Business Review and Prospect 

Generai,

From various sources come heartening reports of a new spirit in Washington. For example, Barron's National Business and Financial Weekly on page foux of the October 19, 1942, issue makes this opening statement: "There is a new atmosphere of firmness and sense of direction in our war leadership since President Rooscvelt returned from his swing around the country.
"Issues are being stood up to and met. That foggy aura of indecision and politics seems to be lifting. Or perbaps because it is now evident that the people are ready to come up for their sacrifices and resent being coddled the new course seems good politics. In any event there is a decisive snap and intelligence being applied to current problems. A spirit of what is the best thing to do without such regard for what is the expedient thing to do."

War production continues to rise but total production for civilian use obviously is declining since Barron's index remains virtually unchanged at approximately 130.

## Texas Business

There was little change in the Texas composite index of business activity from August through September which continued at approximately 160 . Increases in the indexes of employment and pay rolls were virtually offset by decreases, in the indexes of the remaining components. Failure of the index to continue the advance of preceding months was not caused by a decline in business and industrial activity but rather by the failure to make the normal seasonal advance.

## SEPTEMBER INDEXES OF BUSINESS ACTIVITY IN TEXAS

(Average month of $1930=100 \%$ )

| Scpp., 1942 | Sppt, 1941 | Aug, 19412 |
| :---: | :---: | :---: |
| Employment .-.-------------.-- 129.8 | 107.2 | 127.4 |
| Pay RollsMisc. Freight Carloadinge. (S. W.D. |  |  |
|  |  |  |
| District) | 80.8 | 121.1 |
| Runs of Crude Oil to Sitls_ 18.3 | 227.2 | 182.5* |
| Department Store Sales _-----150.3 | 130:1 | 156.8 |
| Consumption of Electric Power --... 217.7 | 162.5 | 217.3 |
|  | 123.5 | 160.2 |

Compared with September, 1941, all of the components used in the index except runs of crude oil to stills made substantial gains over the corresponding month last year. The composile index rose accordingly from 123.5 to 160.7 , an increase of 30 per cent.

## Farm Cash Income

Agricultural cash income in Texas (exclusive of government subsidies) during September as computed by this Bureau (see note at bottom of table) amounted
to nearly 133 million dollars compared with approximately 104 million dollars during September last year, an increase of 28 per cent.

## INDEXES OF AGRICULTURAL CASH INCOME

(Average Months $1929-1932=100 \%$ )

| District | Sept., 1942 | Aug., 1942 | Sept., 194]. | Cumulative Income |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | ${ }^{1.942}$ (000 Omitted) ${ }^{\text {1941 }}$ |  |
|  |  |  |  |  |  |
| 1-N | - 172.5 | 178.6 | 96.8 | 62,126 | 28,134. |
| 1-S | - 319.9 | 334.0 | 136.5 | 33,874 | 19,4,11 |
|  | - 156.1 | 194.2 | 91.7 | 52,160 | 32,882 |
| 3 | . 226.3 | 314.2 | 116.5 | 30,925 | 18,963 |
| 4 | - 110.0 | 65.6 | 93.0 | 104,794. | 71,890 |
| 5 | -. 62.4 | 44.5 | 39.4 | 34,853 | 21,066 |
| 6 | - 283.0 | 198.5 | 169.5 | 23,506 | 17,753 |
|  | .. 275.7 | 227.3 | 131.3 | 50,890 | 39,188. |
| 8 | -134.3 | 115.2 | 175.2 | 62,010 | 37,733 |
| 9 | - 214.9 | 142.0 | 88.5 | 37,422 | 22,649 |
| 10 | 143.6 | 137.6 | 129.2 | 15,383 | 12,225 |
| 10-A | 130.7 | 223.8 | 291.5 | 37,389 | 19,322 |
| STATE | --. 119.4 | 118.2 | 93.2 | 545,332 | 341,216 |

Note: Farm cash incomes as compated by this Rurean understates actual farm cesh income by from 6 to 10 per cent. This situation reanlte from the fact that means of securing complete local marketings, especially by truck, beve not yst been fully developed. In addition, means trave not yot been developed for computing cash incume from all agricaltural specialties of local importanco in acattercd areas throughout the Statg. This situation, however, does not impair the accuracy of the indexes to any appreciable extent.

On the outer cover of this issue of the Review is a graphic presentation of the trend of farm cash income in Texas from 1927 through 1941 with a preliminary estimate for 1942. The information is given for each of the crop reporting districts as well as for the State as a whole, and is moreover broken down according to principal sources-cotton and cottonseed, grains, livestock, and livestock products and all other products principally fruits and vegetables.

## Preliminary Estimate of Farm Cash Income in Texas for 1942.

Only a comparatively rough approximation can be made at this time of the probable farm cash income in Texas during the current year. The computed farm cash income for the first nine months of the year is 545 million dollars compared with 341 millions dollars during the corresponding period in 1941, or an increase of 60 per cent.

It is improbable that this rate of increase over 1941 will be maintained during the last three months of the ycar, but it is quite probable that the actual computation for the entire year 1942 will be at least 40 per cent above the corresponding figure of 616 million dollars for 1941, which would make the 1942 farm cash income more than 850 million dollars. This figure is more than 50 million dollars greater than for any year for which computations have been made by this Bureau, the nearest being in 1928 when the total farm cash income was a little under 800 million dollars, computed on a comparable basis. It is much more likely, more-
over, that the final computed figure for 1942 will be above 850 million dollars, than that it will be below this amount.

As already indicated, the computed figure is an understatement estimaled at between five and ten per cent. On this basis, actual farm cash income in Texas during

1942, exclusive of government subsidies, promises to be upwards of 900 million dollars against a comparable figure of slightly less than 700 million dollars last year. With government subsidies it-may well reach a total of more than 950 million dollars.

F. A. Buechel.

# Natural Resources, Science, and Industrial Organization in the Rapidly Changing Texas Scene 


#### Abstract

Enrror's Note.-Each of the many articles prepared for the Review by Mr. Johnson during recent years has no doubt well repaid the careful reader seeking a sound basis for the interpretation of economic and social phenomena. His thorough grounding in the physical and biological sciences-especially in the fields of goology, mineral resources, soils, physical geography, and ecology -gives Mr. Johnson a spientific appreach to the study of natural recrions and asseciated natural resources, which few others possess. With these bascs upon which to build, his studics of regional economic development take on a realism and significance quite unicrue. Although the sweep of his concept is world wide, his studies of regions and resources are noteworthy for the detail in which they have been worked out.


In a brief summary of essential factors concerned with the economy of Texas, three elements are outstanding: the scope of the Texas region and its natural resources, the impacts of science upon the fuller development of the State's natural resources, and the impacts of worldwide economic movements not only upon Texas but upon other regions of the world, whether these regions are competitive or complementary with reference to the Texas region.

Other elements concerned in the broader aspects of Texas economy may be regarded as corollaries of the elements named above; an exception is the one relating to the comparative position of agriculture and industry in an economic system, which of course involves social factors of fundamental significance.

The following outline attempts to present briefly the main factors concerned in the regional economy of Texas.
I. First in importance in the scope of the Texas region as manifested in:
a) The volume, quality, and diversity of Texas natural resources which are spread throughout an area nearly a twelfth of that of continental United States;
b) The geographic orientation of Texas, together with the physical setting of the State in relation to the geologic architecture of the North American continent. Mere extent of territory may not necessarily be of any great positive importance; but the vast size of Texas in relation to the geographic orientation of the State on the one hand and the geologic make-up of the major sections of the State on the other hand all combine to give to Texas a diversity in, and an aggregate of, surface features and sub-surface conditions and resources that considered as a whole are little less than magnificent.

A comprehensive view of Texas, commensurate with its geographic and geologic position in the North American continent and its vast wealth in natural re-
sources, obviously must be a first essential to an understanding of the State and is at once a necessity to an interpretation of past developments and an indispensable element in envisioning the potentialities of the State inthe near future.
II. In connection with the natural resources attention is to be given to the import of the dynamics of science and industry in their mutual application to the economic development of Texas as evidenced through a more optimum utilization of the State's natural resources. These dynamic factors are institutional forces of the first magnitude. But, without the requisite bases of natural resources upon which to operate, these forces are virtually powerless. The scope and variety of natural resources on the one hand and the impacts thereon by an advancing technology and expanding industrial demand on the other supply the fundamental factors upon which economic development is based.
III. Then there are the powerful impacts of worldwide economic movements upon the Texas scene and the consequent reactions upon "old" industries such as cotton and timber and the like on the one hand, and on the other hand upon the "new" industries such as the various aspects of the chemical industry, or what is being done with petroleum and natural gas and with the potentialities, for instance, or what may be done with vegetable oils or starch products.

The future relations of cotton and synthetic fibers in supplying the demands of the textile market, the potential aspects of vegetable oils and cellulosic products, the accentuated vital importance of petroleum and natural gas, and the potentialities of the State's vast non-metallic resources are all to be viewed against the background of these powerful forces which are supported by scientific developments and achicvements that are little less than revolutionary. With respect to petroleum, it is becoming obvious that oil as a chemical raw material holds possibilities for a revolution in the chemical industry comparable to that inaugurated by the large scale use of coal-tar products in the latter part of the 19th century.
IV. The new tempo in Texas economic development is manifested in one sense through the growing appreciation of the inherent qualities of the State's diverse natural resources, as exemplified through the progress of scientific studies. The results of these studies are being more and more efficiently utilized as illustrated by
dominant trends in recent industrial developments and applications. One of the most difficult of problems, it may be remarked, is that of picturing in some adequate manner the revolutionary advances and changes that are taking place all about us. The tempo is too rapid, the changes are too deep, to be interpreted on the levels of achievements characteristic of even a few years ago.
V. The accentuated aspects of competitive factors, because of developments in other producing sections of the world, for available markets, will not grow less in the post-war era, so far as Texas products are concerned. Industrial trends are world-wide in their scope; they operate on a world-wide stage not only in developing new regions but also in developing new products for new uses and in developing new products which take the place of commodities formerly used. A comprehensive study of competitive factors, which affect Texas products now and which will affect such products in an ever increasing measure in the future, can be but little less than world-wide in its inclusiveness.
VI. The comparative position of manufacturing and agriculture, as types of institutional adjustments in the economic life of the State, presents problems which cannot be measured merely in economic terms. The social implications and the social reactions concerned in these two systems of utilizing natural resources merit careful attention in analyses of the State's economy.
VII. One manifestation of the dynamics of economic growth is that of economic integration in the economy of the United States as a whole and which is expressed necessarily in a more optimum economic development of the major regions of the country. The potentialities which Texas possesses in such an integration, by virtue of the State's great wealth in its varied natural resources, are of an order of magnitude adequate to give Texas a large and ever-growing place in the expanding national economy. This is but another way of emphasizing the economic significance of regional analyses; unless fitted into the fundamental features of the regional environment, most production studies necessarily are given to the use of abstractions which restrict their economic applications and limit their usefulness.
VIII. Regional shifts of population and industries in the United States are evidences of geographic dispersion and reflect the effects of a fuller utilization of the advantages possessed by the regions concerned. For the past century and a quarter the history of Texas has been determined primarily by these shifts into the Southwest. And the history of Texas internally considered has been concerned with the occupying of its major regions, each as large as an ordinary state. Regional shifts of national scope such as those that have been outstanding during the past two decades are manifestations of forces operating to bring about a more completely integrated national economy.

As a matter of fact, the economic history of the United States and of its several major divisions is concerned primarily with these regional shifts and the economic and social consequences thereof. Whether these shifts involve cotton growing or livestock production, lumbering or the pulp and paper industry, petroleum or natural
gas, or the several branches of the chemical industry, the shift took place primarily as an adjustment to the utilization of the natural resources involved. To attempt to explain these shifts by statistical data, or merely by so-called economic analyses, is to get the cart before the horse. And, of course, some current attempts to explain away the significance of natural resources would, of course, be ridiculous were they not so tragic in that they give rise to utterly wrong conceptions about subjects of transcendent importance in today's world.

What is required as a prerequisite to an interpretation of these regional shifts is a scientific understanding of the physical environment of the regions concerned and of the associated natural resources. Without a scientific understanding of the region and of the manner in which the natural resources are genetically associated with the physical conditions of the region, analyses of regional economy are necessarily limited to superficial aspects of the features concerned.

## Industry and the New Tempo in Texas Economic Development

That the wealth of Texas now as well as in the future is, and will be, fundamentally dependent upon the natural resources of the State is hardly open to question. In fact, it is not questioned by those who think in realistic terms. And, because of this fact, considerably more attention necessarily will be paid in the future to studies of the natural resources of the State than has been true in the past. The whole field of conservation of natural resources is due to receive the attention it merits in a region where the significance of natural resources is so basic to the State's economy.

But, in an area as large as Texas and as varied both as to surface features and sub-surface characteristics, it is indeed a formidable task to get a full-fledged workable perspective of the State's natural resources. Partly because it is a formidable undertaking to get a substanital perspective of Texas' natural resources and of the way in which they are basic to an understanding and appreciation of the State's economy, and partly because of a lack of appreciation of the fundamental importance of natural resources, this phase of the study of Texas constitutes one of the larger gaps in the educational system. A sure knowledge of the wide range and the inherent qualities of these natural resources can come only as a result of long and painstaking scientific investigations. For this is a field in which mere statistical summations do not suffice.

Owing to the fundamental importance of natural resources in the economic life of the State, it would be difficult to overemphasize the significance of scientific studies of the State's natural resources. In addition, there is the fact of the comparative position of Texas' natural resources, which by virtue of their volume, quality, and diversity, occupy a significant place in the pattern of the natural resources of the nation. At the same time, however, it is not merely volume that is to be considered significant, important as this item is, but also the inherent qualities of these natural resources as these properties are being progressively opened up by
advancing science and atilized by new industrial developments.

It is necessary, therefore, that the student of economic development in Texas have not only a scientific understanding of the natural resources of the State but also a comprehension of the manner in which advancing science, on the one hand, and industrial organization, on the other, are bringing about a more optimum development of these resources.
The first problem encountered in portraying industry in Texas is that of the wide scope and the attainable high levels of the potential industrial devclopment in the State. A second point is the fact that industry is not merely an agglomeration of machines and equipment and industrial processes but that industry is itself a predominant dynamic factor in determining the patterns and characteristics of economic life.

Industry is concerned with machines and processes, both mechanical and chemical, but industry, owing to its inherent properties, has become one of the most powerful and at the same time most widespread of dynamic institutional factors, the impingements of which are obvious on wide fronts in today's rapidly changing world.

The fundamental fact concerning industry is that it is based primarily upon the applications of progressively advancing science to the opening up of potentialities made possible by natural resources. Science is a fundamental institutional factor of the first magnitude, and it is a dynamic factor, for when science ceases to advance, it is no longer science. Furthermore, it appears that industry is dynamic to the extent that it partakes of the dynamic qualities of science, on the one hand, and the potentialities made available by new or a fuller knowledge of natural resources, on the other. Thus the essential fact is that dynamic science and industry work hand in hand, with the consequence that natural resources are progressively being brought to new levels of effectiveness. But without the natural resources, there would be no bases upon which science could operate and no materials to which technology could be applied.

And, furthermore, both science and industry operate on a scale that is world-wide. As stated by Veblen, "the modern state of the industrial arts is drawn on international scale, in that it works to the best, that is to say the most productive effect by the free use of materials drawn from many sources, far and near, and by such free local specialization of industry as will permit the supply of any given line of goods, finished or halfwrought, to be turned out wherever the facilities for their production are at their best. This is the chief service of the modern means of transport and communication."

The scope and range of Texas natural resources both as to volume and paltern of combinations are adequate to support industries of more than merely local propor. tions, as is abundantly exemplified in the petroleum industry and is currently being exemplified on a wide front in the chemical industry. No longer are provincial concepts of Texas natural resources and industry permissible; instead the potentialities of the State have
to be appraised in the light of their position in the national picture and even in the international scene. And, owing to war needs, the foremost natural resource of Texas in the national picture now and in the international scene is oil with natural gas occupying also a very important position.

In an address recently before The American Chemical Socicty, Charles M. A. Stine; a du Pont vice-president, spoke as follows of oil in the chemical picture:

By all means, too, watch petroleum. Some years ago it was believed that the ultimate in motor fuel would be reached by the creation of a gasoline equivalent in power and anti-knock qualities to pure iso-octane. So superior was iso-octane in these respects that it arbitrurily was given an octane number of 100 , which became the standard in evalualing all gasolines. ... Fuels now can be made that go beyond the octane scale. Their estimated octane numbers are of the order of 110 or 115 or even higher. They deliver one-half again as much power as 100 octane fued. Looking upon the situation that is indicated for after the war, the petroleum chemist now sees all existing motors as out of date, with knowledge of fuels advancing so rapidly that September's motor might be out of date in October.
Let us glance at another phase of petroleum chemistry. A barrel of crude oil contains literally thousands of chemical compounds. The chemist has loog been fascinated by the possibility that almost anything under the sun might be created with these chemical building blocks of hydrogen and carborn; that simply by the addition of oxygen and other elements in the proper combination, he might obtain new alcohols, esters, acids, solvents, perfumes, pharmaceuticals and organic synthetics of every type. Catalytic cracking processes and adaptations of them, brought very recently to high stages of perlormance, aro now leading toward this goal and taking petroleum chemistry into a realm once exclusive to coal-tar chemistry.

The largest catalytic cracking capacity in the world is being operated by American oil companies. Soon this capacity will approximate some hundreds of thousands of barrels daily. The significance of this development, well underway in 19.39 but expanded to gigantic size by the needs of war, is beyond all present vision. Synthetic rubber, which as every chemist knows is not rubber at /all but a new material of broader and yet more promising utility, is being produced from butadiene and styrene synthesized from petroleum. Toluene, best known as the basis of one of the most important of modern high cxplosives but also essential in dye chemistry and many other jndustries, is now a petroleum product.

With almost equal facility the petrolcum chemist can give us ethylene, on the one hand, or henzene on the other, and supply them in quantities measured in hundreds of tons daily. This feat might be likened to drawing wine or water at will from the same cask, or getting beef or pork from the: same animal, inasmuch as cthylene and benzene are members of quite different chemical familics. Practically, they are employed in such diverse uses as the manufacture of styrene plastics, both the Buna and Thiokol types of synthctic rubbers, drugs, dyes and nylon. Moreover, acetylone can be produced from refinery gases to fumish the princigual intermediate in the manufacture of neoprente.

The vital strategic significance of petroleum reserves and production in the war effort gives to this natural resource a level of importance which as yet is not generally appreciated. Certainly oil has become one of the major key resources in the global war, and upon its control hinges the fate of nations.

## Agriculture as a Basic Enterprise

Texas is traditionally an agricultural and range livestock producing State; the importance of these enter: prises is, however, by no means limited to traditional
features. Agriculture and livestock are still and will long remain important in the State's economy, owing to the wide extent of the physical characteristics and the associated natural resources of the various portions of Texas which are concerned in the production activities of these enterprises. The extensive rich soil regions of the State, the wide expanses of lands highly suitable to native grasses, and the temperature and rainfall and soil conditions conducive to the rapid growth of forest trees in the eastern part of the State give to Texas a diversity in its capacity for large output of plant products equalled by few if any other states in the country.

Unquestionably much progress remains to be accomplished in rendering more efficient the adjustments of agricultural and range enterprises in the State. Conservation of soils and native grasses and timber will come to be recognized as economic problems of the first magnitude, and it is apparent that the economic problems presented by conservation of agricultural and forest resources will call for a complete scientific understanding of the material bases out of which these problems have arisen. The great potentials in economic expansion in Texas, are, however, in the field of industry. In this expansion agriculture will participate in no small degree, in supplying consumption products to the expanding markets occasioned by industrial growth, reflected, for instance, in the growing demands upon the dairy industry or upon poultry and egg production.

In the long run, however, agriculture will participate to a very significant degree in industrial expansion in still another sense, that of supplying raw materials in large quantities to satisfy the growing demands of new industry, a beginning of which is exemplified to a certain degree, at least, in what is currently happening in the pulp and paper industry in the State. This aspect of the potentialities of agricultural production is one of the most important developments in recent years. The past two decades have amply demonstrated, for example, what the field of synthetic fibers can do in competing with and, to certain extent, in supplanting the older textiles. It may be that in the next few decades the great surpluses of staple agricultural products will be viewed as vast annual supplies of raw materials readily available to an expanding chemical industry.

Unquestionably, such raw materials as vegetable oils, starches in grains or other farm products, cellulosic materials, and the like, will in the future be demanded by industry in large and expanding amounts. Few states possess the advantages for low-cost, large-scale production of these commodities which Texas has by virtue of the areal extent and the natural resources of its different
natural regions. These natural regions are a function of the wide ranges in the physical environment of the State. This fact of the variety of environmental features and natüral resources possessed by its major natural regions stands out as one of the most remarkable features in evaluating the potentialities of agricultural production in Texas.

There is, however, another fundamental factor connected with the evaluating of agriculture in modern economy; these are the social aspects inherent in agricultural life. It is no exaggeration to state that the social aspects of agriculture constitute one of the nation's outstanding problems. And it is precisely this aspect of agriculture that challenges Ieadership to give the quality of attention merited by a problem of such momentous significance.

In conclusion, it would seem that the pressure of events is sulficient to emphasize the importance of the subjects dealt with in this paper. Fortunate indeed is Texas in its capacity to supply vitally needed products in large volume. And fortunate, too, it is for the rest of the country and especially so at this particular time that Texas possesses the natural resources which enable this State to supply those vitally needed commodities. With advancing science and industry the natural resource problem will necessarily come to be recognized as one of the fundamental problems with which the world of tomorrow will have to come to terms. As a matter of fact, there is abundant evidence that the close interrelationships of science and industry and natural resources are being given consideration by industrial and scientific leaders.

One illustration may be permitted, one that contains far reaching suggestions. In his introductory lecture in "Oil in the Earth" Wallace E. Pratt reminded his audience that "Lectures by active technologists it might be supposed would tend to diminish the existing pronounced lag between the acquisition of new techniques in the field and their incorporation into the curriculum of the professional school. It is true that uniformly in our social order a long period intervenes between the discovery of new facts at the frontiers of industry and their effective dispensation at the established educational centers. But the occasional lecturer cannot contribute much toward eliminating this handicap to progress. The remedy lies elsewhere: probably in some fundamental reform of the system that coördinates science and industry."

Elmer H. Johnson.

# Cotton Production Capacity for the South--An Asset or Liability 

The natural resources and advantages in the South and Southwest for producing a large volume of quality cotton at relatively low cost are unrivaled in the world. From the beginning of cotton production in the United States down to the first World War this capacity to produce cotton was among the nation's greatest assets. Exports of cotton serviced our foreign debts and paid for much of the capital equipment used in developing the country. The whole economy of the South was built on it, and the ever-increasing volume of surplus cotton coming from the South, became the major raw material in the in dustrialization of Western Europe.

In view of the role that cotton produced in the South has played in the South, the nation and the world, how is it possible for so many people even in high authority to refer now to the South's capacity to produce surplus cotton as a liability rather than an asset? What has happened to cause such a radical change in the evaluation of our greatest resource?

This change has not been due to a reduction in the South's natural capacity to produce cotton, but to lagging technology in production and manufacture of cotton and to lost markets, Iargely as a result of politicoeconomic forces.

Cotton growers of the South have lost a large part of their former market in Europe not so much because those countries put tariffs or other restrictions on the
import of American cotton, but party because the United States placed high tatiffs and other restrictions on the import of commodities those countries wished to sell us to get dollars with which to pay for cotton; and partly because our Government has adopted a policy of putting above-market price loans on United States cotton.

Bi-lateral trade agreements, blocked exchange quotas; and other similar devices have also played their part in our loss of markets.

In recent years, there have been many political devices developed to control markets within the country itself, such as state trade barriers, excise taxes, and sanitary restrictions. Now that the Government itself has become the all-absorbing market, Government specifications determine who shall have what market. Government specifications of rayon instead of cotton cord for heavy duty army vehicle tires is a striking case in point.

The battle of cotton is being fought on three major fronts: (1) economies of production and distribution; (2) technological discoveries and; (3) economic politics with equality of access to markets as the major objective. Without access to markets to absorb the volume of our natural advantage and specialized equipment to produce, process, and merchandise cotton, our capacity to produce it in large quantities tends to become a liability.
A. B. Cox.

## TEXAS'STATISTICAL COUNGIL

On Friday, October 23, the Texas Statistical CounciI held its regular annual meeting in Austin. The papers presented and the authors were as follows:

Problems of Local Taxation, Mr. Curtis Morris, East Texas Chamber of Commerce, Longview.

The Petroleum Industry Under War Conditions, Mr. M. G. Cheney, Petroleum Geologist, Coleman.

Problems of Price Control, Dr. Bruce L. Melvin, Consumer Relation Executive, Office of Price Administration, Dallas.

The address of welcome at the luncheon was given by Dr. Edward L. Dodd, Professor of Actuarial Mathematics, The University of Texas, Austin.

The Changing Aspects of Retail Distribution, Mr. Louis R. Sarazan, Comptroller, The Fair, Fort Worth. Problems of War Manpower Supply and Labor Market Analysis, Mr. J. H. Bond, Regional Director, War

Manpower Commission, Dallas, "presented by Mr. John F. Hilliard, Assistant Director, War Manpower Commission, Austin.

An Over-all View of Texas Agricultural Production in 1942 and an Estinate of Farm Cash Income in Texas in 1942, Mr. V. C. Childs, Principal Agricultural Statistician, United States Department of Agriculture, Austin; and Dr. F. A. Buechel, Assistant Director, Bureau of Business Research, The University of Texas, Austin.

It is intended to bring these papers together in the Proceedings of the meeting. Only sufficient copies will be prepared to supply the needs of present members and prospective new members. However, if we receive specific requests from others than the groups named we shall try to meet them. Such requests should be submitted as soon as possible, and directed to F. A. Buechel, Secretary.

## EMPLOYMENT AND PAY ROLLS IN TEXAS

September, 1942


CHANGES IN EMPLOYMENT AND PAY ROLLS IN SELECTED CITIES ${ }^{(5)}$

|  | Employment Percentage Change |  |  | Pay Rolls <br> Percentage Change |  |  |  | Employment Porcentage Change |  |  | Pay Roll: rcceatake Change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Sept., 1941 |  |  | Sept., 1941 |  |  | 1942 | Sept., 1941 |  | ug., 1942 | Sept., 1941 |
|  |  | $1942$ | to $\text { Sept., } 1942$ |  |  | $\begin{aligned} & \text { to } \\ & \text { Sept., } 1942 \end{aligned}$ |  |  | $1942$ | $\begin{aligned} & \text { to } \\ & \text { Sept., } 1942 \end{aligned}$ |  | to | to Sept. 1942 |
| Abilene |  | 9.5 | + 14.5 | - | 5.1 | $+16.6$ | Galveston | $+$ | 12.6 | $+49.8$ | $\pm$ | 15.3 | + 28.4 |
| Amarillo | $\cdots$ | 1.0 | - 14.4 | $+$ | 4.0 | + 6.6 | Houston | + | 0.8 | + 5.4 | + | 5.2 | + 21.1 |
| Austin . | + | 13.0 | $+23.9$ | $+$ | 9.9 | + 28.7 | Port Arthur | - | 1.4 | - 3.1 | $+$ | 7.9 | $\pm 26.1$ |
| Beaumont | + | 4.0 | $+113.2$ | $+$ | 3.6 | $+215.9$ | San Antonio | + | 0.4 | $+9.7$ | $+$ | 3.7 | + 24.5 |
| Dallas | + | 3.1 | $+5.4$ | $+$ | 5.9 | + 19.8 | Sherman | + | 4.2 | $\pm 4.4$ | + | 9.0 | $+26.7$ |
| El Paso | - | 3.6 | + 7.2 | $t$ | 0.2 | + 25.3 | Waco | + | 3.3 | $+15.0$ | + | 5.3 | $+32.7$ |
| Fort Worth. | + | 0.2 | $+14.0$ | $\pm$ | 1.6 | + 51.7 | Wichita Falls | $+$ | 6.3 | $+25.4$ | $+$ | 5.2 | $+16.6$ |
|  |  |  |  |  |  |  | STATE - --- | $+$ | 1.9 | + 19.5 |  | 4.9 | $+54.0$ |

## ESTIMATED NUMBER OF EMPLOYEES IN NONAGRICULTURAL BUSINESS AND GOVERNMENT ESTABLISHMENTS ${ }^{(9)}$

|  | 1940 (1) | 1941 ${ }^{(1)}$ | $1942^{(1)}$ |  | 1940 ${ }^{\text {a }}$ | $1941{ }^{(1)}$ | 1942 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 944,000 | 1,052,000 | 1,115,000 | Juily | 983,000 | 1,101,000 | 1,317,000 ${ }^{(1)}$ |
| February | 943,000 | 1,092,000 | 1,131,000 | August | 988,000 | 1,113,000 | 1,347,000 ${ }^{(12)}$ |
| March | 965,000 | 1,086,000 | 1,175,000 | September | 1,009,000 | 1,134,000 |  |
| April | 963,000 | 1,097,000 | 1,178,300 | October | 1,022,000 | 1,141,000 |  |
| May | . 983,000 | 1,077,000 | 1,195,000 | November | 1,048,000 | 1,161,000 |  |
| June ----------..-- | 982,000 | 1,084,000 | 1,291,000 | December | 1,084,000 | 1,177,000 |  |

 and profesgional personneI.
${ }^{11}$ Revised.
(2) Subject to revision.
${ }^{\text {(3) }}$ ) ${ }^{(4)} \mathrm{No}$ change .
(4) Not availablo.
(5) Mased on unweightea Giguxes.
${ }^{\circ}{ }^{\circ}$ Not including belf-employed pergons, casual workers, or domestic servanta, and exclusize of military and maritimo pergonkel. Thene figuren are furalahed by the Butean of Sabor Statistics, U.S. Department of Labor

Prepared from reporte from representative Texas ebtablighmente to the Bareau of Businean Reneaich coöpeating with the Burean of Lahor Statiatich
Due to the national emergency, publication of data for certain industrien ia being withkeld antil further notion.

## SEPTEMBER RETAIL SALES OF INDEPENDENT STORES IN TEXAS

|  | $\begin{gathered} \text { No. of } \\ \text { Firize } \\ \text { Reporting } \end{gathered}$ | Percentage Changes in Doliar Salea |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Sept., } 1942 \\ & \text { frop } \\ & \text { Sept,, 1941 } \end{aligned}$ | $\begin{aligned} & \text { Sept., } 1942 \\ & \text { frome } \\ & \text { Aug., } 1942 \end{aligned}$ |  |
| TEXAS | 1,023 | +9 | $+9$ | $+2$ |
| STORES GROUPED BY LINE OF GOODS CARRIED: |  |  |  |  |
| APPAREL | 110 | +31 | $+28$ | $+19$ |
| Family Clothing Stores | 28 | $+45$ | $+17$ | $+31$ |
| Men's and Boys' Clothing Stores | 39 | $+23$ | +33 | $+13$ |
| Shoe Stores...- | 14 | +46 | +38 | +32 |
| Women's Specialty Shops | 29 | +32 | $+27$ | +18 |
| AUTOMOTIVE*. | 68 | -37 | -10 | -65 |
| Motor Vehicle Dealers. | 67 | -39 | $-11$ | -67 |
| COUNTRY GENERAL | 90 | +22 | +11 | +19 |
| DEPARTMENT STORES | 54 | +18 | $+30$ | +11 |
| DRUG STORES | 138 | +22 | -2 | $+18$ |
| DRY GOODS AND GENERAL MERCHANDISE | 22 | +18 | $+2$ | $+25$ |
| FlLLING STATIONS | 34 | -4 | $-5$ | + 2 |
| FLORISTS | 26 | +16 | +16 | - 1 |
| FOOD* | 151 | +22 | $-1$ | +26 |
| Grocery Stores | 48 | $+27$ | - 2 | $+30$ |
| Grocery and Meat Stores | 95 | $+20$ | $-1$ | +24 |
| FURNITURE AND HOUSEHOLD* | 82 | $+9$ | +9 | -8 |
| Furniture Stores | 71 | +14 | +9 | $-6$ |
| JEWELRY BUILDINC AND | 28 | $+33$ | $+18$ | $+20$ |
| LUMBER, BUILDING, AND HARDWARE* | 185 | $-5$ | $+4$ | +14 |
| Farm Implement Dealers | 12 | $+13$ | $+15$ | $+7$ |
| Hardware Stores. | 62 | -2 | +6 | +8 |
| Lumber and Building Material Dealers | 109 | $-8$ | $+2$ | $+14$ |
| RESTAURANTS | 19 | +42 | $-1$ | $+19$ |
| ALL OTHER STORES | 16 | $+18$ | $+8$ | $+24$ |
| TEXAS STORES GROUPED ACCORDING TO POPULATION OF CITY: |  |  |  |  |
| All Stores in Cities of- |  |  |  |  |
| Over 100,000 Population. | 171 | $+9$ | $+17$ | - 1 |
| 50,000-100,000 Population | 118 | $+15$ | $+15$ | + 6 |
| 2,500-50,000 Population | 488 | +9 | +12 | -4 |
|  | 246 | $+3$ | +1 | + 6 |

[^0]
## PETROLEUM

Daily Average Production
(In Barrels)

|  | Sept., 19 | Sept | Aug., 1942 |
| :---: | :---: | :---: | :---: |
| Coostal Texas* | 313,900 | 281,700 | 300,050 |
| East. Central Texas | 84,500 | 83,900 | 90,700 |
| East Texas | 344,550 | 351,900 | 375,850 |
| North Texas | 135,500 | 132,850 | 137,900 |
| Panhandle | 85,150 | 84,250 | 94,400 |
| Southwest Texas | 163,100 | 209,350 | 191,300 |
| West Texas | 203,900 | 266,200 | 230,200 |
| STATE | 1,330,600 | 1,410,150 | 1,420,400 |
| UNITED STATES | 3,857,500 | 3,995,700 | 3,950,000 |

## *Includes Conroe.

Nots: From American Petroleam Institute.
See accompanying map showing the oil producing diatrict of Texsa.
Gasoline sales as indicated by taxes collected by the State Comptroller were: August, 1942, 115,856,000 gallons; Auguist, 1941, $140,221,000$ gallons; July, 1942, 123,529,000 gallons.


SEPTEMBER RETAIL SALES OF INDEPENDENT STORES IN TEXAS

|  |  | Perc | entage Chan |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Na, of Finms | Scpt., 1942 from | Sept., 1942 from | $\begin{aligned} & \text { Year } 1942 \\ & \text { from } \end{aligned}$ |
|  | Keporting | Sept., 194I | Aus., 1942 | Year 1941 |
| TOTAL TEXAS | 1,023. | + 9 | +9 | $+2$ |

TEXAS STORES

## GHOUPED BY

PRODUCING AREAS:

| District 1-N ...........- | 76 | $+29$ | $+6$ | +7 |
| :---: | :---: | :---: | :---: | :---: |
| Amarillo | 20 | $+34$ | $+11$. | $-1$ |
| Pampa | 14 | +14 | $-3$ | -3 |
| Plainview | 16 | $+37$ | $+4$ | $+9$ |
| All Others | 27 | $+18$ | $+3$ | $+17$ |
| District 1-S | 23 | +24 | +-18 | $+16$ |
| Lubbock | 10 | $+30$ | $+23$ | +16 |
| All Others | 13 | +11 | $\dagger 8$ | +17 |
| District 2 | 74 | $+22$ | $+23$ | -18 |
| Wichita Fabls. | 13 | $+12$ | +13 | +18 |
| All Others | 61 | $+27$ | +28 | +18 |
| District 3 | 39 | $+10$ | $+26$ | $+6$ |
| District 4 | 214 | $+20$ | $+21$ | $+7$ |
| Dallas | 39 | + 7 | $+19$ | $-9$ |
| Fort Worth | 30 | $+16$ | $+15$ | $+8$ |
| Sherman | 13 | $+10$ | $+12$ | $+19$ |
| Waco | 21 | +29 | $+23$ | $+10$ |
| All Others | 111 | $+22$ | +18 | +14 |
| District 5 | 96 | $+18$ | +22 | + 8 |
| Tyler | 10 | +13 | $+15$ | $\pm 5$ |
| All Others | 86 | $+20$ | +24 | +8 |
| District 6 | 43 | +19 | $+5$ | $+9$ |
| El Paso | 23 | $+9$ | + 4 | + 2 |
| All Others | 20 | $+50$ | +3 | +27 |
| District 7 | 54 | $-3$ | + 10 | +10 |
| San Angelo | 11 | - (1) | $+19$ | +11 |
| All Others .-...-.....- | 43 | $-7$ | + 2 | $+10$ |
| Distriet 8 | 160 | $+21$ | $+15$ | $+17$ |
| Austin | 16 | $+10$ | $+40$ | $+20$ |
| San Antonio | 55 | $+15$ | +13 | $+7$ |
| All Others | 91 | +22 | -1 | $+20$ |
| District 9 | 115 | $+13$ | $+25$ | +10 |
| Beaumont. | 14. | $+31$ | $+35$ | $+35$ |
| Galveston | 12 | +23 | $+18$ | +24 |
| Houston | 47 | $+1$ | +21 | - 2 |
| All Others | 45 | $+29$ | $+25$ | $+5$ |
| District 10 | 30 | $+8$ | +13 | +9 |
| District 10-A | 41 | +21 | $-12$ | +16 |
| Brownsville | 11 | $+18$ | -14 | +15 |
| All Others _---------- | 30 | $+22$ | $-10$ | $+17$ |

${ }^{63}$ Change of less than $.5 \%$.
No'r: Prepared from reports of independent motail storea to the Burean of Business Researeh coipperating with the U.S. Bureat of the Censur.
Tho total namber of firths reporting docs not check exactily with the totals of the cities because some motor vehicle dealets whose ales varied radically from the sules of ather stores in their respective cities were omitted when working the percontage changes for those cities. This was done only when the ealeg of motor vohicle dealers worc an unusaally large proportion of the total aslea of a city.

## TEXAS COMMERCIAL FAILURES

| Sept., 1942 | Sept, 1941 | Aug. <br> 1942 | $\begin{aligned} & \text { January } \\ & 1 \$ 42 \end{aligned}$ | October 1 1941 |
| :---: | :---: | :---: | :---: | :---: |
| Number ----nmen 5 | 13 | 8 | 112 | 209 |
| Liabilities** ---.-. 889 | \$113 | \$72 | \$1,705 | \$3,763 |
| Assets* $-\ldots-\ldots-{ }^{\text {c }}$ | 58 | 51 | 1,203 | 1,812 |
| Average Liabilities per failure* $\qquad$ 18 | 9 | 9 | 15 | 18 18 |

## TEXAS CHARTERS

|  | $\begin{aligned} & \text { Sept., } \\ & 19442 \end{aligned}$ | Scpt., <br> 1941 | Alue. <br> 1942 | Year <br> 1942 | Year <br> 1941 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Domestic Corporations: |  |  |  |  |  |
| Capitalization* | 258 | 411 | 944 | 6,767 | 9,362 |
| Number .-....... | 33 | 53 | 34 | 572 | 636 |
| Classification of new corporations: |  |  |  |  |  |
| Banking-Finance | 0 | 4 | 0 | 8 | 35 |
| Manufacturing | 4 | 13 | 7 | 68 | 90 |
| Merchandising | 6 | 5 | 6 | 68 | 142 |
| Oil -... | 2 | 3 | 8 | 42 | 67 |
| Public Service .-...... | 1 | 6 | 0 | 3 | 7 |
| Real Estate Building | 9 | 3 | 7 | 215 | 104 |
| Transportation ...--- | 4 | 1 | , | 27 | 23 |
| All Others ...- | 7 | 18 | 5 | 141 | 168 |
| Number capitalized at less than $\$ 5,000$ | 19 | 17 | 15 | 289 | 242 |
| Number capitalized at $\$ 100,000$ or more | 0 | 1 | 4 | 14 | 16 |
| Foreign Corporations (Number) $\qquad$ | 14 | 8 | 9 | 103 | 128 |
| *In thourands. |  |  |  |  |  |
| Nars: Cotapiled from recor | ${ }^{\text {did }}$ of | Sct |  |  |  |

## CEMENT

(In Thousands of Barrels)


Nore: From U.S. Depsrtment of Interior, Baresu of Minen.

## COMMODITY PRTCES

| Wholessle Prices: | $\underset{\substack{\text { Sept, } \\ \text { d942 }}}{\text { den }}$ | Sopt, | ${ }_{1942}$ |
| :---: | :---: | :---: | :---: |
| U. S. Bureau of Labor Statistics $(1926=100 \%)$ $\qquad$ | 99.6 | 91.8 | 99.2 |
| Farm Prices: |  |  |  |
| U. S. Dep't of Agriculture (1910-'14=100\%) | * | 139.0 | 163.0 |
| U. S. Bureau of Labor Statistics ( $1926=100 \%$ ) | 107:8 | 91.0 | 106.1 |
| Retail Prices: |  |  |  |
| Food (U.' S. Bureau of Labor |  |  |  |
|  | 126.6 | 110.8 | 126.1 |
| lications, Jan. $1931=100 \%$ ) | 113.1 | 105.2 | 113.1 |


|  | POSTAL RECEIPTS |  |  |  | ADI¢, 1942 |  | - | Year 1941 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sept., 1942 |  | Sept., 1941 |  |  | Year 1942 |  |  |
| Abilene |  | 30,012 | \$ | 20,954 | \$ | 26,173 | 256,836 |  | 240,604 |
| Amarillo |  | 42,285 |  | 33,600 |  | 40,214 | 330,209 |  | 304,495 |
| Austin |  | 78,145 |  | 76,361 |  | 84,316 | 706,625 |  | 666,141 |
| Beaumont |  | 31,826 |  | 27,764 |  | 32,868 | 283,927 |  | 255,532 |
| Big Spring |  | 7,783 |  | 5,737 |  | 7,556 | 63,737 |  | 57,360 |
| Brownwood |  | 12,712 |  | 9,290 |  | 11,826 | 143,592 |  | 127,721 |
| Coleman |  | 3,153 |  | 2,738 |  | 3,104 | 28,402 |  | 123,195 |
| Corpus Christi |  | 44,299 |  | 39,006 |  | 41,848 | 379,588 |  | 314,935 |
| Corsicana |  | 7,833 |  | 6,577 |  | 8,747 | 62,943 |  | 53,588 |
| Dallas |  | 430,476 |  | 427,844 |  | 384,581 | 3,571,359 |  | 3,568,809 |
| Del Rio |  | 3,524 |  | 3,722 |  | 3,474 | 30,557 |  | 47,495 |
| Denison |  | 7,318 |  | 6,475 |  | 7,631 | 65,565 |  | 58,366 |
| Denton |  | 8,220 |  | 7,280 |  | 6,137 | 74,030 |  | 67,893 |
| Edinburg |  | 3,015 |  | 3,218 |  | 3,501 | * |  | 67,80 |
| E1 Paso |  | 61,473 |  | 59,336 |  | 58,366 | 543,746 |  | 542,952 |
| Fort Worth |  | 191,262 |  | 178,849 |  | 163,062 | 1,491,573 |  | 1,360,233 |
| Galveston |  | 38,510 |  | 32,229 |  | 34,729 | 333,832 |  | 306,568 |
| Gladewater |  | 3,032 |  | 2,894 |  | 2,470 | 27,749 |  | 25,942 |
| Graham |  | 2,669 |  | 2,617 |  | 2,367 | 22,020 |  | 20,923 |
| Harlingen |  | $\begin{array}{r}7,946 \\ \hline 291\end{array}$ |  | 6,841 |  | 7,146 | 65,073 |  | 58,889 |
| Houston |  | 291,036 |  | 268,549 |  | 272,258 | 2,519,844 |  | 2,429,673 |
| Jacksonville ---uenedy |  | 3,592 $\mathbf{1} 699$ |  | 3,268 |  | 3,350 | 34,162 |  | 31,259 |
| Kenedy |  | 1,699 |  | 1,277 |  | 1,688 | 1.8,901 |  | 12,605 |
| Lubhock |  | 33,849 |  | 25,644 |  | 2,447 | 88,280 217,562 |  | 86,674 |
| Mcallen |  | 4,896 |  | 4,374 |  | 4,480 | 21,5,909 |  | 188,579 |
| Marshall |  | 9,291 |  | 6,502 |  | 8,583 | 74,499 |  | 43,789 57993 |
| Pampa |  | 7,858 |  | 6,677 |  | 6,923 | 64,024 |  | 51,298 |
| Paris |  | 10,139 |  | 7,136 |  | 9,193 | 75,436 |  | 56,146 |
| Plainview |  | 4,924 |  | 4,313 |  | 4,059 | 39,317 |  | 36,146 |
| Port Arthur |  | 18,386 |  | 14,620 |  | 16,907 | 153,173 |  | 36,719 129,843 |
| San Angelo |  | 15,015 |  | 13,805 |  | 14,501 | 132,028 |  | 120,376 |
| San Antonio. |  | 180,829 |  | 146,268 |  | 170,066 | 1,488,052 |  | 1,306,816 |
| Sherman |  | 9,615 |  | 7,900 |  | 8,603 | 79,627 |  | -69,555 |
| Snyder |  | 1,727 |  | 1,398 |  | 1,687 | ${ }^{*}$ |  | \% |
| Sweetwater |  | 5,090 $\mathbf{2 0} 349$ |  | 4,912 |  | 5,714 | 48,520 |  | 45,599 |
| Texarkana |  | 20,349 |  | 16,910 |  | 19,045 | * |  | * |
| Waco |  | 40,504 |  | 16,121 |  | 16,401 | 144,231 |  | 142,354 |
| Wichita Falls |  | 34,687 |  | 39,267 |  | 37,595 | 337,847 338,455 |  | ${ }_{218,220}$ |
| TOTAL |  | 1,734,147 | \$ | 1,578,319 | \$ | 1,593,176 | 14,381,230 |  | 13,474,308 |

*Not avaitlable.
Nots: Compiled from reports from Texas chambers of commerce to the Bureau of Buiness Research.

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

|  | Cattlo |  | Calver |  | Hogs |  | Sheep |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1942 | 1941 | 1942 | 1941 | 1942 | 1941 | 1942 | 1941 | 1942 | 1941 |
| Total Interstate Plas Fort Worth | 5,039 | 3,559 | 1,863 | 1,669 | 1,041 | 623 | 1,988 | 1,322 | 9,931 | 7,173 |
| Total Intrastate Omitting Fort Worth | 767 | 465 | 153 | 186 | 51 | 20 | 543 | 1,372 | 1,514 | 1,143 |
| TOTAL SHIPMENTS | 5,806 | 4,024 | 2,016 | 1,855 | 1,092 | 643. | 2,531 | 1,794 | 11,445 | 8,316 |

TEXAS CAR-LOT* SHIPMENTS OF LIVE STOCK, JANAURY I-OCTOBER 1

|  | Cattle |  | Calvea |  | Hogs |  | Sheep |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1942 | 1941 | 1942 | 1941 | 1942 | 1941 | 1942 | 1941 | 2942 | 1941 |
| Total Interstate Plus Fort Worth | 42,881 | 30,183 | 8,769 | 8,001 | 9,176 | 7,679 | 9,689 | 7,772 | 70,515 | 53,635 |
| Total Intrastate Omitting Fort Worth | 4,818 | 3,446 | 972 | 1,090 | 231 | 138 | 9,689 | 801 | 6,949 | 53,635 5,475 |
| TOTAL SHIPMENTS | 47,699 | 33,629 | 9,741 | 9,091 | 9,407 | 7,817 | 10,617 | 8,573 | 77,464 | 59,110 |

[^1]
## BUILDING PERMITS



|  | Sept., 1942 | Sept., 1941 |
| :---: | :---: | :---: |
| \$ | 11,340 | 9,485 |
|  | 34,339 | 247,736 |
|  | 17,067 | 433,179 |
|  | 42,165 | 148,796 |
|  | 35,435 | 10,036 |
|  | $800^{*}$ | $\uparrow$ |
|  | 500 | 7,300 |
|  | 55,738 | 417,353 |
|  | 3,400 | 9,900 |
|  | 191,851 | 1,120,644 |
|  | 2,322 | 12,618 |
|  | 740 | 20,850 |
|  | 289* | + |
|  | 44,883 | 145,534 |
|  | 136,965 | 386,250 |
|  | 23,189 | 132,041 |
|  | 0 | 0 |
|  | 0 | 2,160 |
|  | 6,500 | 43,700 |
|  | 61,720 | 1,498,866 |
|  | 600 | 10,610 |
|  | 0 | 0 |
|  | 1,100* | $\dagger$ |
|  | 1,325 | 9,020 |
|  | 13,939 | 260,133 |
|  | 2,495 | 13,233 |
|  | 10,920 | 25,1.98 |
|  | 1,775 | 49,120 |
|  | 1,905 | 7,245 |
|  | 1,750* | 30,470* |
|  | 8,120 | 27,235 |
|  | 1,650 | 4,540 |
|  | 12,729 | 113,860 |
|  | 4,765 | 88,124 |
|  | 181,956 | 790,431 |
|  | 24,436 | 38,418 |
|  | 0 | , $\dagger$ |
|  | 850 | 9,100 |
|  | 6,916 | 83,498 |
|  | 6,271 | 42,046 |
|  | 75,483 | 159,086 |
|  | 51,115 | 250,723 |
|  | 1,075,404 | \$ 6,558,068 |


| Auk., 1942 | Year 1942 | Year 1941 |
| :---: | :---: | :---: |
| \$ 4,280 | \$ 1,168,703 | \$ 727,279 |
| 57,800 |  | 2,077,453* |
| 59,442 | 1,512,959 | 4,310,568 |
| 36,384 | 3,485,564 | 1,793,155 |
| 4,156 | 84,593 | 154;611 |
| 3,255* | $\dagger$ | $\dagger$ |
| 1,385 |  | 181,009* |
| 236,870 | 3,846,345 | 11,032,856 |
| 1,575 | 153,434 | 141,442 |
| 206,323 | 5,655,750 | 12,278,624 |
| 9,475 | $+$ | 80,075* |
| 535 | 42,313 | 294,279 |
| $338^{*}$ | + |  |
| 13,968 | 1,954,222 | 2,235,541 |
| 136,965 | 9,754,404 | 5,075,916 |
| 31,317 | 1,397,280 | 3,636,219 |
|  | 4,610 | 16,030 |
| 160 | 18,008 | 62,747 |
| 805 | 96,100 | 287,695 |
| 181,985 | 10,865,184 | 15,346,880 |
| 700 | 13,100 | -78,126 |
|  | 2,990 | 37,835 |
| $1,400^{*}$ | ${ }^{\dagger}$ | $\dagger$ |
| - 15,825 | 33,055 $2,030,174$ | 149,515 $2,820,352$ |
| 15,095 3,950 | 2,030,174 | 2,820,352 165,388 |
| 8,085 | 180,654 | 379,668 |
| 950 | 278,105 | 433,900 |
| 1,410 | 37,399** | + |
| 中 | 145,300 | 243,690 |
| 9,195 | 153,923 | 204,688 |
| 998 | 10,205 | 59,939 |
| 7,391 | 302,632 | 945,169 |
| 9,320 | 244,840 | 605,905 |
| 291,874 | 3,828,668 | 5,600,083 |
| 23,940 | 321,609 | -276,677 |
|  | 18,600* | ¢ |
| 870 | 60,108 | 124,960 |
| 524,014 | $\dagger$ | $\stackrel{\text { ¢ }}{\dagger}$ |
| 9,918 | 199,161 | 551,818 |
| 92,352 | 1,019,810 | 2;521,147 |
| 47,725 | 517,956 | 2,375,977. |
| \$2,033,038 | \$59,525,051 | \$74,968,679 |

*Not includedi in total.
$\dagger$ Not available.
Norb: Compilod from reports from Texas chambers of commerce to the Burean of Businceg Reasarch.
(In Thousands of Running Bales Except as Noted)

| Year | Carryover Aug. 1 | $\begin{aligned} & \text { Imports } \\ & \text { (to } \\ & \text { (ct, } 1^{*} \end{aligned}$ | Government Estimete as of Oct. 1* | Total | $\begin{aligned} & \text { Cousamp- } \\ & \text { tion to } \end{aligned}$ | $\begin{aligned} & \text { Exports } \\ & \text { to } \end{aligned}$ |  | Ralatice |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1933-1934 | 8,176 | 23 | 12,885 | 21,084 |  |  | Total |  |
| 1934-1935 | 7,746 | 19 | 9,443 | 17,208 | 1,088 | 1,400 | 2,488 1,420 | 18,596 |
| 1935-1936 | 7,138 | 14 | 11,464 | 18,616 | 859 | 728 | I, 587 | 15,788 |
| 1936-1937 | 5,397 | 22 | 11,609 | 17,028 | 1,205 | 752 | 1,957 | 17,029 |
| 1937-1938 | 4,498 | 14 | 17,978 | 22,490 | 1,206 | 838 | 2,044 | 20,446 |
| -1930-1939 | 11,533 | 29 | 12,212 | 23,774 | 1,093 | 590 | 1,683 | 2,091 |
| 1939-1940 | 13,033 | 22 | 11,928 | 24,983 | 1,255 | 644 | 1,899 | 23,084 |
| 1940-1941 | 10,596 | 14 | 12,741 | 23,351 | 1,289 | 156 | 1,445 | 21,906 |
| 1941-1942 | 12,376 | 69 | 11,061 | 23,506 | 1,750 | 255 | 2,005 | 21,501 |
| 1942-1943 | 10,590 | t | 13,818 | 24,408 | 1,891 | , | 1,891 | 22,517 |

[^2]
## SEPTEMBER GREDIT RATIOS IN TEXAS DEPARTMEN' AND APPAREL STORES

## (Expressed in Per Cent)

|  | $\begin{gathered} \text { Number } \\ \text { of } \begin{array}{c} \text { of } \\ \text { Stopot } \end{array} \end{gathered}$ | $\begin{gathered} \text { Ratio of } \\ \text { Credid Sales } \\ \text { to Net Sallog } \\ \text { 1942 } \end{gathered}$ |  | $\begin{gathered} \text { Ratio of } \\ \text { Cofliections to } \\ \text { OOtstardius } \\ 1942 \quad 1941 \end{gathered}$ |  | $\begin{aligned} & \text { Hatio of } \\ & \text { Credit Slasies } \\ & \text { to Credit Sales } \\ & 1942 \\ & \hline 1941 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All Stores. | 55 | 54.9 | 67.9 | 54.2 | 40.4 | 1.0 | 0.8 |
| Stores Grouped by Cities: |  |  |  |  |  |  |  |
| Abilene | 3 | 46.2 | 59.7 | 14.0 | 29.3 | 1.4 | 1.5 |
| Austin. |  | 46.9 | 60.7 | 64.6 | 47.4 | 1.2 | 1.0 |
| Dallas | 9 | 64.2 | 75.4 | 55.8 | 40.7 | 0.7 | 0.5 |
| Fort Worth | 5 | 53.5 | 66.1 | 54.5 | 38.0 | 1.1 | 1.0 |
| Houston | 6 | 59.1 | 66.4, | 53.4 | 40.3 | 1.0 | 0.9 |
| San Antonio | 5 | 41.6 | 58.1 | 59.4 | 45.7 | 1.6 | 1.2 |
| Waco | 3 | 44.8 | 55.5 | 63.0 | 34.1 | 1.2 | 1.5 |
| All Others | 18 | 47.9 | 62.4 | 57.4 | 38.3 | 1.1 | 1.0 |
| Stores Grouped According to Type of Store: |  |  |  |  |  |  |  |
| Department Stores (Annual Volume Over $\$ 500,000$ ) | 17 | 55.0 | 66.8 | 59.0 | 43.4 | 1.0 | 0.8 |
| Department Stores (Annual Volume under \$500,000) -...-. | 10 | 44.4 | 57.7 | 27.5 | 33.2 | 1.3 | 1.4 |
| Dry-Goods-Apparel Stores_ | 12 | 49.1 | 62.2 | 56.7 | 42.3 | 1.6 | 1.4 |
| Women's Specialty Shops | 13 | 57.4 | 73.8 | 50.1 | 36.1 | 0.5 | 0.3 |
| Men's Clothing Stores...- | 13 | 54.7 | 67.0 | 56.4 | 35.7 | 1.2 | 1.1 |
| Stores Grouped According to Volume of Net Sales During 1941: |  |  |  |  |  |  |  |
| Over \$ $\$ 2,500,000$ | 10 | 59.0 | 68.8 | 60.8 | 46.3 | 1.0 | 0.8 |
| \$2,500,000 down to \$1,000,000 | 10 | 47.6 | 64.1 | 56.1 | 39.9 | 1.7 | 1.0 |
| \$1,000,000 down to \$500,000 | 7 | 49.9 | 61.3 | 61.3 | 39.4 | 1.1 | 1.1 |
| \$500,000 down to \$100,000 | 25 | 36.6 | 53.8 | 56.1 | 40.4 | 1.8 | 1.5 |
| Less than $\$ 100,000$ | 3 | 60.4 | 71.3 | 51.4 | 42.6 | 1.8 | 2.5 |

Note: The ratiog shown for each year, in the order in which they appear from left to right are obtajaed by the following cumputationg: (1) Credit Sales divided by Net Salest; (2) Collections during the toonth divided by the total accoonts anpaid on the first of the month; (3) Salaries of the eredit dopartonent divided by credit ales. The data are reported to tho Bureau of Buainess Research by Texas retail mores.

## SEPTEMBER, 1942, CARLOAD MOVEMENTS OF POULTRY AND EGGS

Shipments from Texas Stations

| Deatication* | Cars of Poultry |  |  |  | Cars of Eggs |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chickena |  | d |  | Sbell |  | Frozen |  |  |  | Sholl Equivalent $\dagger$ |  |
|  |  |  | Tarkeys |  |  |  | Dried |  |  |
|  | 1942 | Sept | $1942$ | 1941 | 1942 | 1941 |  |  | 1942 |  | $\begin{gathered} \text { aber } \\ 1942 \end{gathered}$ | 1941 | 1942 | 1941 |
| TOTAL | 9 | 19 | 2 | 3 | 5 | 16 | 8 | 61 | 61 | 51 | 509 | 546 |
| Intrastate | 3 | 0 | 0 | 0 | 4 | 1 | 3. | 0 | 0 | 0 | 10 | 1 |
| Interstate | $6{ }^{+}$ | 19 | 2 | - 3 | 1 | 15 | 5 | 61 | 61 | 51 | 499 | 545 |

Receipts at Texas Stations
Origin



[^3]
## BANKING STATISTICS

(In Millions of Dollars)

Debits to individual accounts
Condition of reporting member banks on-
Assets:

| Loans and investments-total | 843 | 35,954 | 644 | 29,125 | 792 | 34,457 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Loans-total | 302 | 10,361 | 344 | 11,024 | 305 | 10,382 |
| Commercial, industrial, and agricultural loans | 213 | 6,270 | 235 | 6,447 | 220 | 6,282 |
| Open market paper | 1 | 292 | 2 | 397 | 1 | 313 |
| Loans to brokers and dealers in securities | 2 | 526 | 3 | 494 | 2 | 493 |
| Other loans for purchasing or carrying securities | 15 | 381 | 14 | 428 | 13 | 381 |
| Real Estate loans | 20 | 1.221 | 23 | 1,257 | 21 | 1,230 |
| Loans to banks |  | 65 | 1 | 39 |  | 26 |
| Other loans | 51 | 1,616 | 66 | 1,962 | 48 | 1,657 |
| Treasury Bills | 77 | 2,337 | 39 | 785 | 68 | 2,239 |
| Treasury Cert. of indebtedness | 81 | 3,071 | $\dagger$ | $\dagger$ | 74 | 2,273 |
| Treasury Notes | 75 | 3,283 | 34 | 2,280 | 44 | 2,753 |
| U.S. Bonds. | 209 | 11,257 | 117 | 7,917 | 202 | 11,220 |
| Obligations guaranteed by U.S. Government | 39 | 2,106 | 49 | 3,319 | 40 | 2,095 |
| Other Securities | 60 | 3,539 | 61 | 3,800 | 59 | 3,495 |
| Reserve with Federal Reserve Bank | 232 | 8,618 | 164 | 10,792 | 228 | 9,379 |
| Cash in Vault | 17 | 496 | 14 | 537 | 16 | 473 |
| Balances with domestic banks | 262 | 2,526 | 301 | 3,596 | 266 | 2,635 |
| Other Assets-net. | 32 | 1,220 | 31 | 1,200 | 32 | 1,194 |
| abilities: |  |  |  |  |  |  |
| Demand deposits-adjusted* | 749 | 27,424 | 593 | 24,277 | 733 | 27,217 |
| Time deposits | 130 | 5,162 | 133 | 5,429 | 131 | 5,137 |
| U.S. Government deposits | 56 | 2,041 | 35 | 599 | 39 | 1,532 |
| Inter-bank deposits: |  |  |  |  |  |  |
| Domestic banks | 350 | 8,527 | 296 | 9,669 | 331 | 8,681 |
| Foreign banks. | 1 | 676 | 1 | 624 | 1 | 679 |
| Borrowings |  | 53 |  | 1 |  | 2 |
| Other liabilities | 6 | 958 | 5 | 772 | 5 | 915 |
| Capital account | 94 | 3,973 | 91 | 3,888 | 94 | 3,975 |

*Not Available
Nors: From Federal Rerserve Board.

## LUMBER

(In Board Feet)

|  | Sept., 1942 | Sept., 1941 | Aug., 1942 |
| :---: | :---: | :---: | :---: |
| Southern Pine Mills: |  |  |  |
| Average weekly production per unit $\qquad$ | 273,578 | 332,137 | 291,356 |
| Average weekly shipments per unit $\qquad$ | 314,416 | 355,373 | 340,968 |
| Average unfilled orders per unit, end of month | $1,742,571$ | 1,490,245 | 1,558,860 |

PERCENTAGE CHANGES IN CONSUMPTION OF ELECTRIC POWER

|  | Sept., 1942 from Sept., 1941 | Sept., 1942 from Aug., 1942 | Jan. 1-Oct. 1, 1942 from Jan. 1-Oct. 1, 1941 |
| :---: | :---: | :---: | :---: |
| Commercial | $-12.4$ | $-1.2$ | $-9.9$ |
| Industrial | $+44.0$ | $-6.2$ | $+49.9$ |
| Residential | $-0.5$ | $-1.9$ | + 8.7 |
| All Others | $+19.7$ | $-7.7$ | $+40.7$ |
| TOTAL | +18.2 | $-4.8$ | $+25.1$ |

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

GRAPHIC AND STATISTICAL SUMMARY of THe Public Librare DAIRY INDUSTRY WITH SPECIAL REFERENCE<br>TO TEXAS By F. A. Buechel, Assistant Director and Statistician, Bureau of Business Research, The University of Texas. August, 1942. Price One<br>\title{ NOV - 21942 } Dollar.

This report by means of text, charts, and tables, presents a detailed and comprehensive statistical analysis of the dairy industry of Texas together with data which afford a picture of the industry, national and international in scope.

Developments and exigencies of today have made necessary the publication of this bulletin in preliminary form, and those interested in the dairy industry whether from a local, national, or international standpoint, will find in it the answers to many vital questions regarding all branches of dairy production, particularly with reference to the industry in Texas.

Included in the summary are forty-eight graphic charts which clearly illustrate detailed facts concerning all phases of the dairy industry. These charts depict sharply the position of Texas as both a producer and consumer of dairy products; they show the trends and comparisons between countries, between states, and between the crop reporting districts of Texas. The locations of the different dairy products manufacturing plants are shown on a series of maps.

A total of 131 statistical tables provides statistical information covering every branch of the dairy industry for the nation, for individual states, and for all Texas
counties grouped by crop reporting districts. For example, Table 126 entitled, "Value of Milk Used in the Manufacture of Dairy Products in Texas, by Districts" shows the amount of creamery butter, ice cream, American cheese, cream cheese, and concentrated milk products manufactured in Texas from 1932 to 1940, inclusive.
A paragraph included in the introduction states briefly:
"The present preliminary report is composed essentially of three parts-general quantitative facts concerning the dairy industry in international trade, designed to show the relative position of the United States in this trade; somewhat more specific quantitative facts concerning the dairy industry in the country as a whole and certain geographical divisions thereof, with a view to presenting the Texas dairy industry in something of its national and regional quantitative setting; and, finally, comparatively detailed quantitative facts concerning the dairy manufacturing industry in Texas, and particularly the subdivisions of Texas as represented by the crop reporting districts which are based upon the natural regions of the State."

Clara H. Lewis.

## CONTENTS

Business Review and Prospect, F. A. Buechel ..... Page
Cotton Production Capacity for the South-An Asset or Liability, A. B. Cox ..... 3
Natural Resources, Science, and Industrial Organization in the Rapidly Changing Texas Scene, Elmer H.Johnson4
Texas Statistical Council ..... 8
Announcement of the Publication of Graphic and Statistical Summary of the Dairy Industry with Special Reference to Texas, Clara H. Lewis ..... 16
LIST OF CHARTS
Indexes of Business Activity in Texas ..... 2
Trend of Annual Farm Cash Income By Products in Texas, 1927-1941 ..... 1
LIST OF TABLES
Banking Statistics ..... 15 ..... 13
Building Permits
Building Permits
Carload Movement of Poultry and Eggs
Cement ..... 14
Charters ..... 11
Commercial Failures ..... 11
Commodity Prices ..... 11 ..... 11
Cotton Balance Sheet ..... 11 ..... 11
Credit Ratios in Department and Apparel Stores ..... 13 ..... 13
Employment and Pay Rolls in Texas ..... 14 ..... 14
Lumber ..... 9
Percentage Changes in Consumption of Electric Power ..... 15 ..... 15
Petroleum ..... 15
Postal Receipts ..... 10
Retail Sales of Independent Stores in Texas ..... 12 ..... 12
Shipments of Livestock
Shipments of Livestock


[^0]:    *Goup total includea kinds of businese other then the clacoifications listod.
    ${ }^{(1)}$ Change of lest than $5 \%$.
    Nort: Prepared from reporth of indopondent retajl atoren to the Burean of Bugtnces Revearch coopperating with the U.S. Buroau of the Censuls.

[^1]:    *Rail-car Batis: Cattle, 30 head per car; calves, 60; hoge, 80; and chcep, 250.
    Fort Worth shipments are combined with interatate forwardinge in ordez that the bulk of market diasppearance for the month may be shown.
    Nots: These data are furnabed the United Statea Burean of Agricultural Economica by railway offictals through more than 1,500 atation age every live atock obipping poitit in the State. The detn are complled by the Bureat of Buafiess Rercarch.

[^2]:    *In 500-pound Bales.
    $\dagger$ Nnt available.
    The cotton year heging in Anguat.

[^3]:    *The destination above is the firgt destination as shown by the original waybill. Changes in deatination brought about by diversion orders are not ahown.
    $\dagger$ Includes 1 carload of live chickens.
    $\ddagger$ Dried eggs and frogen ugge are converted to a shell egg equivalent on the following hasis: 1 rail carload of dried egga $=8$ carloads of ahell eggs, and i carload of frozert egga $=2$ carloads of shell eggs.

    Nown: These data are furnished to the Division of Asticultural Statisticy, B. A. E, by railroad oficisle through agenta at all atations which originate and receive earload shipments of poultry sud eggt. The data are compiled by the Burean of Business Rebcsich.

